

บริษัท ไວว่า ดีเวลลอปเม้นท์ จำกัด

WAIWA DEVELOPMENT COMPANY LIMITED



56/1 ซ.อุดมสุข 60 ถนนสุขุมวิท 103 แขวงหนองบอน
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OSG GROUP COMPANY



A workman must sharpen his tools firstly
if he wishes to do his work well



ชิ้นส่วนมาตรฐาน แม่พิมพ์ปั๊มโลหะ และแม่พิมพ์พลาสติก

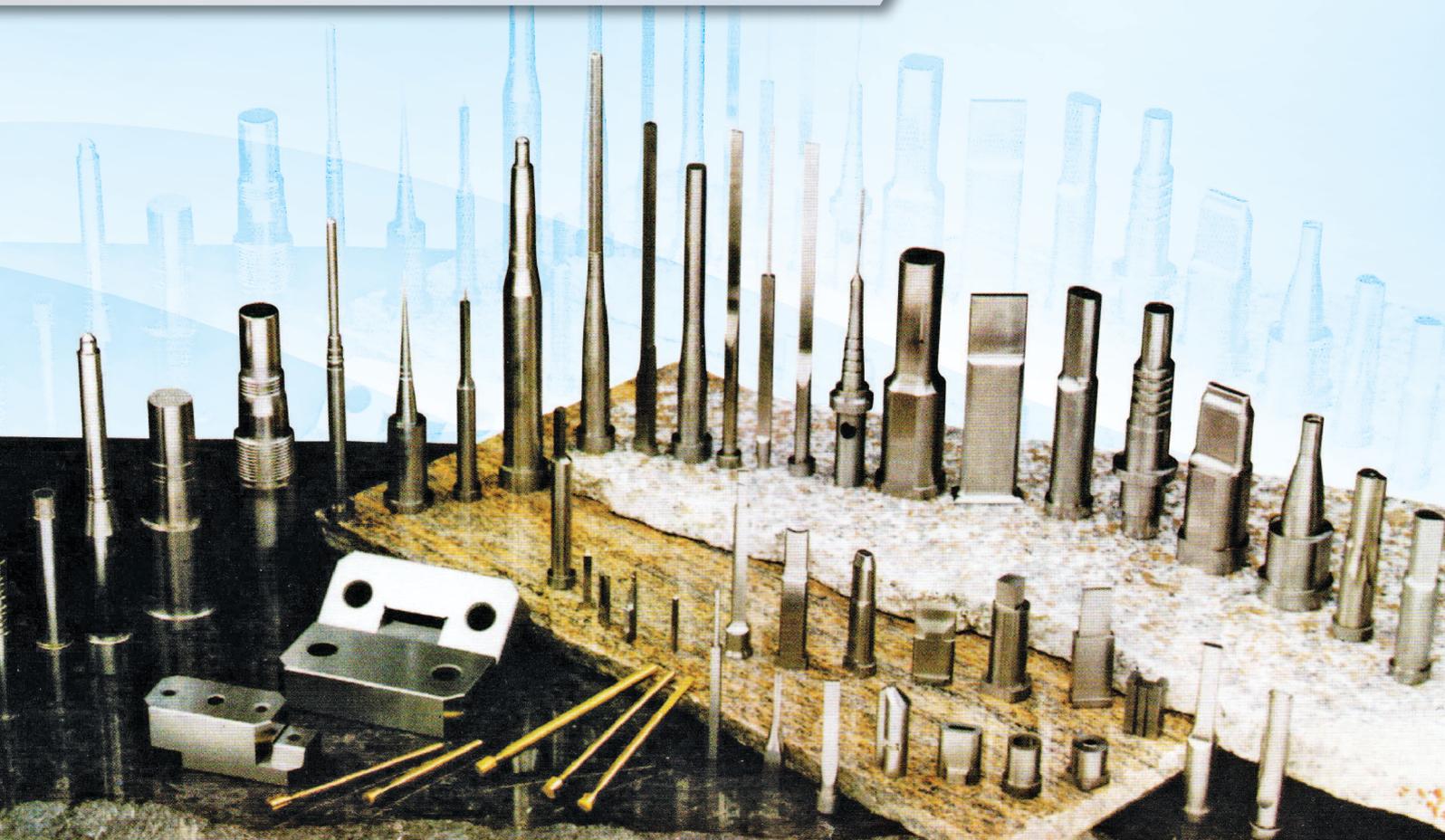
รับสั่งทำสินค้าโซลพิเศษตาม **DRAWING** ต่างๆ

เช่น **EJECTOR PIN, EJECTOR BLADE, EJECTOR SLEEVE, PUNCH, DIES, GUIDE BUSH, GUIDE PIN, SPRUE BUSHINGS**



**ราคา
ย่อมเยาว์**

**รวดเร็ว
ทันใจ**



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CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM204-0015	1.5	6	4	55	
EM204-0020	2	6	6	50	
EM204-0025	2.5	6	7	50	
EM204-0030	3	6	10	50	
EM204-0035	3.5	6	12	60	
EM204-0040	4	6	12	60	
EM204-0045	4.5	6	15	60	
EM204-0050	5	6	15	60	
EM204-0055	5.5	6	15	60	
EM204-0060	6	6	15	60	
EM204-0065	6.5	8	20	65	
EM204-0070	7	8	20	65	
EM204-0075	7.5	8	20	65	
EM204-0080	8	8	20	65	
EM204-0085	8.5	10	25	70	
EM204-0090	9	10	25	70	
EM204-0095	9.5	10	25	70	
EM204-0100	10	10	25	70	
EM204-0105	10.5	12	30	80	
EM204-0110	11	12	30	80	
EM204-0115	11.5	12	30	80	
EM204-0120	12	12	30	80	
EM204-0130	13	12	35	85	
EM204-0140	14	12	35	90	
EM204-0150	15	16	40	95	
EM204-0160	16	16	40	95	
EM204-0170	17	16	40	95	
EM204-0180	18	16	40	95	
EM204-0190	19	20	45	110	
EM204-0200	20	20	45	110	
EM204-0210	21	20	45	110	
EM204-0220	22	20	45	110	
EM204-0230	23	20	50	120	
EM204-0240	24	25	50	120	
EM204-0250	25	25	50	120	
EM204-0250B	25	20	50	120	
EM204-0260	26	25	50	120	
EM204-0270	27	25	55	125	
EM204-0280	28	25	55	125	
EM204-0290	29	25	55	125	
EM204-0300	30	25	55	125	
EM204-0320	32	32	60	145	
EM204-0340	34	32	60	145	
EM204-0350	35	32	60	145	
EM204-0360	36	32	65	150	
EM204-0380	38	32	65	150	
EM204-0400	40	32	65	150	
EM204-0450	45	42	70	160	
EM204-0500	50	42	75	165	

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CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM202-0010	1	6	2.5	55	
EM202-0015	1.5	6	4	55	
EM202-0020	2	6	6	55	
EM202-0025	2.5	6	7	55	
EM202-0030	3	6	10	55	
EM202-0035	3.5	6	12	60	
EM202-0040	4	6	12	60	
EM202-0045	4.5	6	15	60	
EM202-0050	5	6	15	60	
EM202-0055	5.5	6	15	60	
EM202-0060	6	6	15	60	
EM202-0065	6.5	8	20	65	
EM202-0070	7	8	20	70	
EM202-0075	7.5	8	20	70	
EM202-0080	8	8	20	70	
EM202-0085	8.5	10	25	80	
EM202-0090	9	10	25	80	
EM202-0095	9.5	10	25	80	
EM202-0100	10	10	25	80	
EM202-0105	10.5	12	30	90	
EM202-0110	11	12	30	90	
EM202-0120	12	12	30	90	
EM202-0130	13	12	35	95	
EM202-0140	14	12	35	95	
EM202-0150	15	16	40	105	
EM202-0160	16	16	40	105	
EM202-0170	17	16	40	95	
EM202-0180	18	16	40	105	
EM202-0190	19	20	45	95	
EM202-0200	20	20	45	115	
EM202-0210	21	20	45	115	
EM202-0220	22	20	45	115	
EM202-0250	25	25	50	125	
EM202-0260	26	25	50	125	
EM202-0280	28	25	55	125	
EM202-0300	30	25	55	125	
EM202-0320	32	32	60	145	

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CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM204-I004	1/16	1/4	3/16	2-1/8	
EM204-I005	5/64	1/4	7/32	2-1/4	
EM204-I006	3/32	1/4	13/32	2-1/4	
EM204-I008	1/8	1/4	1/2	2-7/16	
EM204-I010	5/32	1/4	9/16	2-1/2	
EM204-I012	3/16	1/4	5/8	2-1/2	
EM204-I016	1/4	1/4	3/4	2-1/2	
EM204-I020	5/16	3/8	3/4	2-1/2	
EM204-I024	3/8	3/8	3/4	2-1/2	
EM204-I032	1/2	1/2	1-1/4	3-1/4	
EM204-I040	5/8	5/8	1-5/8	3-3/4	
EM204-I048	3/4	3/4	1-5/8	3-7/8	
EM204-I100	1"	3/4	1-7/8	4-1/8	
EM204-I101	1"	1"	2"	4-1/2	
EM204-I116	1-1/4	1-1/4	2"	4-1/2	



2FL รุ่นยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM202-I004	1/16	1/4	3/16	2-1/8	
EM202-I005	5/64	1/4	7/32	2-1/4	
EM202-I006	3/32	1/4	13/32	2-1/4	
EM202-I008	1/8	1/4	3/8	2-3/16	
EM202-I010	5/32	1/4	9/16	2-1/2	
EM202-I012	3/16	1/4	5/8	2-1/2	
EM202-I016	1/4	1/4	3/4	2-1/2	
EM202-I020	5/16	3/8	3/4	2-1/2	
EM202-I024	3/8	3/8	3/4	2-1/2	
EM202-I032	1/2	1/2	1-1/4	3-1/4	
EM202-I040	5/8	5/8	1-5/8	3-3/4	
EM202-I048	3/4	3/4	1-5/8	3-7/8	

2FL รุ่นยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM212-0030	3	6	15	60	
EM212-0040	4	6	20	65	
EM212-0050	5	6	25	70	
EM212-0060	6	6	25	70	
EM212-0080	8	8	35	85	
EM212-0100	10	10	45	100	
EM212-0120	12	12	55	115	
EM212-0140	14	16	55	120	
EM212-0160	16	16	65	130	
EM212-0180	18	16	65	130	
EM212-0200	20	20	75	145	
EM212-0220	22	20	75	145	
EM212-0250	25	25	90	165	
EM212-0280	28	25	90	165	
EM212-0300	30	25	90	165	
EM212-0320	32	32	95	180	

4FL รุ่นยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM214-I008	1/8	1/4	3/4	2-3/4	
EM214-I012	3/16	1/4	7/8	2-3/4	
EM214-I016	1/4	1/4	1-1/4	3-1/8	
EM214-I020	5/16	3/8	1-3/8	3-1/8	
EM214-I024	3/8	3/8	1-1/2	3-1/4	
EM214-I032	1/2	1/2	2"	4"	
EM214-I040	5/8	5/8	2-1/2	4-5/8	
EM214-I048	3/4	3/4	3"	5-1/4	
EM214-I100	1"	3/4	4"	6-1/4	
EM214-I101	1"	1"	4"	6-1/2	
EM214-I116	1-1/4	1-1/4	4"	6-1/2	

4FL รุ่นยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM214-0030	3	6	15	60	
EM214-0040	4	6	20	65	
EM214-0050	5	6	25	70	
EM214-0060	6	6	25	70	
EM214-0080	8	8	35	85	
EM214-0100	10	10	45	100	
EM214-0120	12	12	55	115	
EM214-0140	14	16	55	120	
EM214-0160	16	16	65	130	
EM214-0180	18	16	65	130	
EM214-0200	20	20	75	145	
EM214-0220	22	20	75	145	
EM214-0250	25	25	90	165	
EM214-0280	28	25	90	165	
EM214-0300	30	25	90	165	
EM214-0320	32	32	95	180	

4F

รุ่นยาวพิเศษ



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM224-I032	1/2	1/2	3"	5"	
EM224-I040	5/8	5/8	4"	6-1/8	
EM224-I048	3/4	3/4	4"	6-1/4	
EM224-I100	1"	3/4	6"	8-1/2	
EM224-I101	1"	1"	6"	8-1/2	
EM224-I116	1-1/4	1-1/4	6"	8-1/2	

4F

รุ่นยาวพิเศษ



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM224-16160	16	16	100	160	
EM224-20180	20	20	100	180	
EM224-20200	20	20	120	200	
EM224-20230	20	20	150	230	
EM224-25220	25	25	120	220	
EM224-25250	25	25	150	250	
EM224-32250	32	32	150	250	
EM224-32280	32	32	200	280	



2F หัวมัน



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM232-0010	1 (R0.5)	6	2.5	50	
EM232-0015	1.5 (R0.75)	6	4	50	
EM232-0020	2 (R1)	6	5	50	
EM232-0025	2.5 (R1.25)	6	6	60	
EM232-0030	3 (R1.5)	6	8	60	
EM232-0040	4 (R2)	6	8	70	
EM232-0050	5 (R2.5)	6	10	80	
EM232-0060	6 (R3)	6	12	90	
EM232-0070	7 (R3.5)	8	14	90	
EM232-0080	8 (R4)	8	14	100	
EM232-0090	9 (R4.5)	10	18	100	
EM232-0100	10 (R5)	10	18	100	
EM232-0110	11 (R5.5)	12	22	100	
EM232-0120	12 (R6)	12	22	110	
EM232-0140	14 (R7)	12	26	110	
EM232-0160	16 (R8)	16	30	140	
EM232-0180	18 (R9)	16	34	140	
EM232-0200	20 (R10)	20	38	160	
EM232-0250	25 (R12.5)	25	50	180	

2F หัวมัน



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM232-I008	1/8(R1/16)	1/4	3/8	2-5/16	
EM232-I012	3/16(R3/32)	1/4	1/2	2-3/8	
EM232-I016	1/4 (R 1/8)	1/4	5/8	2-7/16	
EM232-I020	5/16 (R5/32)	3/8	3/4	2-1/2	
EM232-I024	3/8 (R3/16)	3/8	3/4	2-1/2	
EM232-I032	1/2 (R 1/4)	1/2	1"	3"	
EM232-I040	5/8 (R5/16)	5/8	1-3/8	3-1/2	
EM232-I048	3/4 (R 3/8)	3/4	1-5/8	3-7/8	
EM232-I100	1" (R 1/2)	3/4	2-1/4	4-1/2	

เอ็นมิลองศา

CODE	องศา	ขนาด	แกน	คมกััด	คมโตสุด	ยาว	BAHT	
EM282-05010	1/2°	1	6	4	1.07	45		
EM282-05015		1.5	6	5	1.59	45		
EM282-05020		2	6	6	2.10	45		
EM282-05025		2.5	6	8	2.64	45		
EM282-05030		3	6	10	3.17	45		
EM282-05040		4	6	15	4.26	50		
EM282-05050		5	6	20	5.34	55		
EM282-05060		6	6	20	6.35	55		
EM284-05080		8	8	25	8.44	65		
EM284-05100		10	10	35	10.61	85		
EM284-05120		12	12	55	12.96	110		
EM284-05160		16	16	65	17.13	130		
EM282-10010		1°	1	6	4	1.14	45	
EM282-10015			1.5	6	5	1.67	45	
EM282-10020			2	6	6	2.21	45	
EM282-10025			2.5	6	8	2.78	45	
EM282-10030	3		6	10	3.35	45		
EM282-10040	4		6	15	4.52	50		
EM282-10050	5		6	20	5.70	55		
EM282-10060	6		6	20	6.70	55		
EM284-10080	8		8	25	8.87	65		
EM284-10100	10		10	35	11.22	85		
EM284-10120	12		12	55	13.92	110		
EM284-10160	16		16	65	18.27	130		
EM282-15010	1-1/2°		1	6	4	1.21	45	
EM282-15015			1.5	6	5	1.76	45	
EM282-15020			2	6	6	2.31	45	
EM282-15025			2.5	6	8	2.91	45	
EM282-15030		3	6	10	3.52	45		
EM282-15040		4	6	15	4.79	50		
EM282-15050		5	6	20	6.04	55		
EM282-15060		6	6	20	7.05	55		
EM284-15080		8	8	25	9.31	65		
EM284-15100		10	10	35	11.83	85		
EM284-15120		12	12	55	14.88	110		
EM284-15160		16	16	65	19.40	130		
EM282-20010		2°	1	6	4	1.28	45	
EM282-20015			1.5	6	5	1.85	45	
EM282-20020			2	6	6	2.41	45	
EM282-20025			2.5	6	8	3.05	45	



Φ 1.0-6.0



Φ 8.0-10

CODE	องศา	ขนาด	แกน	คมกััด	คมโตสุด	ยาว	BAHT	
EM282-20030	2°	3	6	10	3.69	45		
EM282-20040		4	6	15	5.04	50		
EM282-20050		5	6	20	6.39	55		
EM282-20060		6	6	20	7.40	55		
EM284-20080		8	8	25	9.74	65		
EM284-20100		10	12	35	12.44	90		
EM284-20120		12	12	55	15.84	110		
EM284-20160		16	20	65	20.53	130		
EM282-25020	2-1/2°	2	6	6	2.52	45		
EM282-25025		2.5	6	8	3.20	45		
EM282-25030		3	6	10	3.87	45		
EM282-25040		4	6	15	5.31	50		
EM282-25050		5	6	20	6.74	55		
EM282-25060		6	6	20	7.75	55		
EM284-25080		8	10	25	10.18	70		
EM284-25100		10	12	35	13.06	90		
EM284-25120		12	16	55	16.80	110		
EM284-25160		16	20	65	21.68	130		
EM282-30010	3°	1	6	4	1.42	45		
EM282-30015		1.5	6	5	2.02	45		
EM282-30020		2	6	6	2.62	45		
EM282-30025		2.5	6	8	3.33	45		
EM282-30030		3	6	10	4.05	45		
EM282-30040		4	6	15	5.57	50		
EM282-30050		5	6	20	7.10	55		
EM282-30060		6	8	20	8.10	60		
EM284-30080		8	10	25	10.62	70		
EM284-30100		10	12	35	13.67	90		
EM284-30120		12	16	55	17.76	110		
EM284-30160		16	20	65	22.81	130		
EM282-50020		5°	2	6	6	3.05	50	
EM282-50025			2.5	6	8	3.90	50	
EM282-50030			3	6	10	4.75	50	
EM282-50040			4	6	15	6.62	60	
EM282-50050	5		8	20	8.50	80		
EM282-50060	6		8	20	9.50	80		
EM284-50080	8		12	25	12.37	90		
EM284-50100	10		16	35	16.12	115		
EM284-50120	12		20	55	21.62	155		
EM284-50160	16		25	65	27.37	165		



กัดหยาบ (ฟันหยาบ)

inch



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM234-I016	1/4	3/8	5/8	2-7/16	
EM234-I020	5/16	3/8	3/4	2-1/2	
EM234-I024	3/8	3/8	3/4	2-1/2	
EM234-I032	1/2	1/2	1-1/4	3-1/4	
EM234-I040	5/8	5/8	1-5/8	3-3/4	
EM234-I048	3/4	3/4	1-5/8	3-3/4	
EM234-I100	1"	3/4	2"	4"	
EM234-I101	1"	1"	2"	4"	
EM234-I116	1-1/4	1-1/4	2"	4-1/2	

รุ่นยาว
inch



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM235-I032	1/2	1/2	2"	4"	
EM235-I040	5/8	5/8	2-1/2	4-5/8	
EM235-I048	3/4	3/4	3"	5-1/4	
EM235-I100	1"	3/4	4"	6-1/2	
EM235-I101	1"	1"	4"	6-1/2	
EM235-I116	1-1/4	1-1/4	4"	6-1/2	

mm



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM234-0060	6	6	13	57	
EM234-0080	8	10	19	69	
EM234-0100	10	10	22	72	
EM234-0120	12	12	30	80	
EM234-0140	14	12	35	90	
EM234-0160	16	16	40	95	
EM234-0180	18	16	40	105	
EM234-0200	20	20	45	110	
EM234-0220	22	20	45	104	
EM234-0250	25	25	50	120	
EM234-0280	28	25	55	121	
EM234-0300	30	25	55	125	
EM234-0320	32	32	60	133	

mm



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM235-0100	10	10	45	95	
EM235-0120	12	12	53	110	
EM235-0140	14	12	53	110	
EM235-0160	16	16	63	123	
EM235-0180	18	16	63	123	
EM235-0200	20	20	75	141	
EM235-0250	25	25	90	166	
EM235-0300	30	25	90	166	
EM235-0320	32	32	106	186	

กัดหยาบ
หัวมัน



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM236-0080	8 (R4)	8	20	90	
EM236-0100	10 (R5)	10	25	100	
EM236-0120	12 (R6)	12	32	115	
EM236-0140	14 (R7)	12	32	115	
EM236-0160	16 (R8)	16	36	130	
EM236-0180	18 (R9)	16	40	130	
EM236-0200	20 (R10)	20	45	145	
EM236-0250	25(R12.5)	25	50	165	

กัดหยาบฟัน
ละเอียดมาก



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM2N60-0060	6	6	13	57	
EM2N60-0080	8	10	19	69	
EM2N60-0100	10	10	22	72	
EM2N60-0120	12	12	26	83	
EM2N60-0140	14	12	26	83	
EM2N60-0160	16	16	32	92	
EM2N60-0180	18	16	32	92	
EM2N60-0200	20	20	38	104	
EM2N60-0250	25	25	45	121	

2F



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM292-0030	3	6	10	55	
EM292-0040	4	8	12	60	
EM292-0050	5	8	15	65	
EM292-0060	6	8	15	65	
EM292-0080	8	8	20	75	
EM292-0100	10	10	25	80	
EM292-0120	12	12	30	90	
EM292-0140	14	12	35	95	
EM292-0160	16	16	40	105	
EM292-0180	18	16	40	105	
EM292-0200	20	20	45	115	
EM292-0250	25	25	50	125	

4F



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM294-0030	3	6	10	55	
EM294-0040	4	8	12	60	
EM294-0050	5	8	15	60	
EM294-0060	6	8	15	60	
EM294-0080	8	10	20	65	
EM294-0100	10	12	25	75	
EM294-0120	12	12	30	80	
EM294-0140	14	16	35	90	
EM294-0160	16	16	40	95	
EM294-0180	18	20	40	105	
EM294-0200	20	20	45	110	
EM294-0250	25	25	50	130	



STK[®] M42-CO8 TiCN-COATED END MILLS

4F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM244-0020	2	6	6	50	
EM244-0025	2.5	6	6	50	
EM244-0030	3	6	10	50	
EM244-0035	3.5	6	12	60	
EM244-0040	4	6	12	60	
EM244-0045	4.5	6	15	60	
EM244-0050	5	6	15	60	
EM244-0060	6	6	15	60	
EM244-0070	7	8	20	65	
EM244-0080	8	8	20	65	
EM244-0090	9	10	25	70	
EM244-0100	10	10	25	70	
EM244-0110	11	12	30	80	
EM244-0120	12	12	30	80	
EM244-0130	13	12	35	85	
EM244-0140	14	12	35	90	
EM244-0160	16	16	40	95	
EM244-0180	18	16	40	105	
EM244-0200	20	20	45	115	
EM244-0250	25	25	50	120	

4F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM244-I008	1/8	1/4	1/2	2-7/16	
EM244-I010	5/32	1/4	9/16	2-1/2	
EM244-I012	3/16	1/4	5/8	2-1/2	
EM244-I016	1/4	1/4	3/4	2-1/2	
EM244-I020	5/16	3/8	3/4	2-1/2	
EM244-I024	3/8	3/8	3/4	2-1/2	
EM244-I032	1/2	1/2	1-1/4	3-1/4	
EM244-I040	5/8	5/8	1-5/8	3-3/4	
EM244-I048	3/4	3/4	1-5/8	3-7/8	
EM244-I100	1"	3/4	1-7/8	4-1/8	

4F รูนยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM254-0030	3	6	15	60	
EM254-0040	4	6	20	65	
EM254-0050	5	6	25	70	
EM254-0060	6	6	25	70	
EM254-0080	8	8	35	85	
EM254-0100	10	10	45	100	
EM254-0120	12	12	55	115	
EM254-0140	14	16	55	120	
EM254-0160	16	16	65	130	
EM254-0180	18	16	65	130	
EM254-0200	20	20	75	145	
EM254-0250	25	25	90	165	

2F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM242-0010	1	6	2.5	55	
EM242-0015	1.5	6	4	55	
EM242-0020	2	6	6	55	
EM242-0025	2.5	6	7	55	
EM242-0030	3	6	10	55	
EM242-0035	3.5	6	12	60	
EM242-0040	4	6	12	60	
EM242-0045	4.5	6	15	60	
EM242-0050	5	6	15	60	
EM242-0060	6	6	15	60	
EM242-0070	7	8	20	65	
EM242-0080	8	8	20	65	
EM242-0090	9	10	25	70	
EM242-0100	10	10	25	70	
EM242-0110	11	12	30	80	
EM242-0120	12	12	30	80	
EM242-0130	13	12	35	85	
EM242-0140	14	12	35	90	
EM242-0160	16	16	40	95	
EM242-0180	18	16	40	105	
EM242-0200	20	20	45	110	
EM242-0250	25	25	50	120	

4F รูนยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM254-I008	1/8	1/4	3/4	2-3/4	
EM254-I012	3/16	1/4	7/8	2-3/4	
EM254-I016	1/4	1/4	1-1/4	3-1/8	
EM254-I020	5/16	3/8	1-3/8	3-1/8	
EM254-I024	3/8	3/8	1-1/2	3-1/4	
EM254-I032	1/2	1/2	2"	4"	
EM254-I040	5/8	5/8	2-1/2	4-5/8	
EM254-I048	3/4	3/4	3"	5-1/4	
EM254-I100	1"	3/4	4"	6-1/4	

4F รูนยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM252-0060	6	6	25	70	
EM252-0080	8	8	35	85	
EM252-0100	10	10	45	100	
EM252-0120	12	12	55	115	
EM252-0140	14	16	55	120	
EM252-0160	16	16	65	130	
EM252-0180	18	16	65	130	
EM252-0200	20	20	75	145	
EM252-0250	25	25	90	165	

2F หัวมน



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM262-0010	R0.5	6	2.5	50	
EM262-0015	R0.75	6	4	50	
EM262-0020	R1	6	5	50	
EM262-0025	R1.25	6	6	60	
EM262-0030	R1.5	6	8	60	
EM262-0040	R2	6	8	70	
EM262-0050	R2.5	6	10	80	

CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM262-0060	R3	6	12	90	
EM262-0080	R4	8	14	100	
EM262-0100	R5	10	18	100	
EM262-0120	R6	12	22	110	
EM262-0160	R8	16	30	140	
EM262-0200	R10	20	38	160	
EM262-0250	R12.5	25	50	180	



TiCN

พินหยาบ



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM2608-0060	6	6	13	57	
EM2608-0080	8	10	19	69	
EM2608-0100	10	10	22	72	
EM2608-0120	12	12	30	80	
EM2608-0140	14	12	35	90	
EM2608-0160	16	16	40	95	
EM2608-0180	18	16	40	105	
EM2608-0200	20	20	45	110	
EM2608-0220	22	20	45	110	
EM2608-0250	25	25	50	120	
EM2608-0260	26	25	50	120	
EM2608-0280	28	25	55	120	
EM2608-0300	30	25	55	125	
EM2608-0320	32	32	60	145	

พินหยาบ
รู้นยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM2618-0100	10	10	45	95	
EM2618-0120	12	12	53	110	
EM2618-0140	14	12	53	110	
EM2618-0160	16	16	63	123	
EM2618-0180	18	16	63	123	
EM2618-0200	20	20	75	141	
EM2618-0250	25	25	90	166	
EM2618-0300	30	25	90	166	
EM2618-0320	32	32	106	186	

พินหยาบ



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM2608-I024	3/8	3/8	3/4	2-1/2	
EM2608-I032	1/2	1/2	1-1/4	3-1/4	
EM2608-I040	5/8	5/8	1-5/8	3-3/4	
EM2608-I048	3/4	3/4	1-5/8	3-3/4	
EM2608-I100	1"	3/4	2"	4"	
EM2608-I101	1"	1"	2"	4"	

พินหยาบ



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM2618-I032	1/2	1/2	2"	4"	
EM2618-I040	5/8	5/8	2-1/2	4-5/8	
EM2618-I048	3/4	3/4	3"	5-1/4	
EM2618-I100	1"	3/4	4"	6-1/2	
EM2618-I101	1"	1"	4"	6-1/2	

พินละเอียด



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM2606-0060	6	6	13	57	
EM2606-0080	8	10	19	69	
EM2606-0100	10	10	22	72	
EM2606-0120	12	12	30	80	
EM2606-0140	14	12	30	83	
EM2606-0160	16	16	40	95	
EM2606-0180	18	16	40	95	
EM2606-0200	20	20	45	110	
EM2606-0220	22	20	45	104	
EM2606-0250	25	25	50	121	
EM2606-0320	32	32	60	133	

พินหยาบ
รู้นยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM2616-0100	10	10	45	95	
EM2616-0120	12	12	53	110	
EM2616-0140	14	12	53	110	
EM2616-0160	16	16	63	123	
EM2616-0180	18	16	63	123	
EM2616-0200	20	20	75	141	
EM2616-0250	25	25	90	166	
EM2616-0320	32	32	100	170	

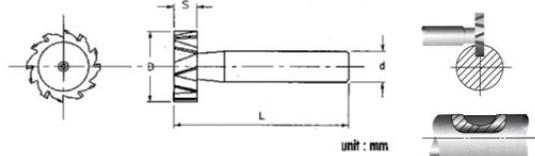
พินหยาบ
รู้นยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM2604-0060	6	6	13	57	
EM2604-0080	8	10	19	69	
EM2604-0100	10	10	22	72	
EM2604-0120	12	12	26	83	
EM2604-0140	14	12	26	83	
EM2604-0160	16	16	32	92	
EM2604-0180	18	16	32	92	
EM2604-0200	20	20	38	104	
EM2604-0220	22	20	38	104	
EM2604-0250	25	25	45	121	



WOODRUFF KEYSEAT CUTTERS



M.HSS

Material : HSS

CODE	D	S	d	L	BAHT
EM501-1301	1/2	1/8	1/2	2-1/8	
EM501-1601	5/8	1/8	1/2	2-1/8	
EM501-1602	5/8	5/32	1/2	2-5/32	
EM501-1603	5/8	3/16	1/2	2-3/16	
EM501-1901	3/4	1/8	1/2	2-1/8	
EM501-1902	3/4	5/32	1/2	2-5/32	
EM501-1903	3/4	3/16	1/2	2-3/16	
EM501-2201	7/8	5/32	1/2	2-5/32	
EM501-2202	7/8	3/16	1/2	2-3/16	
EM501-2203	7/8	1/4	1/2	2-1/4	
EM501-2501	1"	3/16	1/2	2-3/16	
EM501-2502	1"	1/4	1/2	2-1/4	
EM501-2503	1"	5/16	1/2	2-5/16	

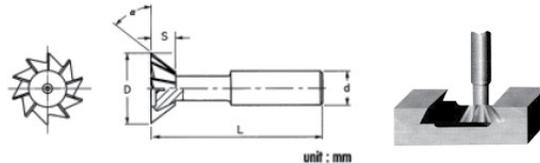
CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM501-2801	1-1/8	3/16	1/2	2-3/16	
EM501-2802	1-1/8	1/4	1/2	2-1/4	
EM501-2803	1-1/8	5/16	1/2	2-5/16	
EM501-3201	1-1/4	3/16	1/2	2-3/16	
EM501-3202	1-1/4	1/4	1/2	2-1/4	
EM501-3203	1-1/4	5/16	1/2	2-5/16	
EM501-3204	1-1/4	3/8	1/2	2-3/8	
EM501-3501	1-3/8	1/4	1/2	2-1/4	
EM501-3502	1-3/8	5/16	1/2	2-5/16	
EM501-3503	1-3/8	3/8	1/2	2-3/8	
EM501-3801	1-1/2	1/4	1/2	2-1/4	
EM501-3802	1-1/2	5/16	1/2	2-5/16	
EM501-3803	1-1/2	3/8	1/2	2-3/8	

Material : HSS

CODE	D	S	d	L	BAHT
EM502-1002	10	2	10	60	
EM502-1003	10	3	10	60	
EM502-1303	13	3	12	60	
EM502-1304	13	4	12	60	
EM502-1603	16	3	12	65	
EM502-1604	16	4	12	65	
EM502-1605	16	5	12	65	
EM502-1903	19	3	12	65	
EM502-1904	19	4	12	65	
EM502-1905	19	5	12	65	
EM502-2003	20	3	12	70	
EM502-2004	20	4	12	70	
EM502-2005	20	5	12	70	
EM502-2006	20	6	12	70	
EM502-2204	22	4	12	70	
EM502-2205	22	5	12	70	
EM502-2206	22	6	12	70	
EM502-2207	22	7	12	70	
EM502-2504	25	4	12	70	
EM502-2505	25	5	12	70	
EM502-2506	25	6	12	70	
EM502-2507	25	7	12	70	
EM502-2508	25	8	12	70	

CODE	D	S	d	L	BAHT
EM502-2805	28	5	12	70	
EM502-2806	28	6	12	70	
EM502-2807	28	7	12	70	
EM502-2808	28	8	12	70	
EM502-2810	28	10	12	70	
EM502-3005	30	5	12	70	
EM502-3006	30	6	12	70	
EM502-3007	30	7	12	70	
EM502-3008	30	8	12	70	
EM502-3010	30	10	12	70	
EM502-3205	32	5	12	75	
EM502-3206	32	6	12	75	
EM502-3207	32	7	12	75	
EM502-3208	32	8	12	75	
EM502-3210	32	10	12	75	
EM502-3506	35	6	12	75	
EM502-3507	35	7	12	75	
EM502-3508	35	8	12	75	
EM502-3510	35	10	12	75	
EM502-3806	38	6	12	75	
EM502-3807	38	7	12	75	
EM502-3808	38	8	12	75	
EM502-3810	38	10	12	75	

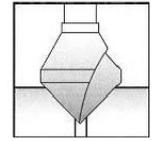
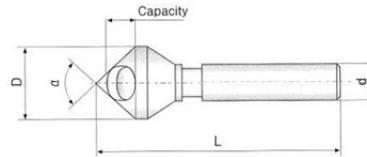
DOVETAIL CUTTERS



Material : HSS

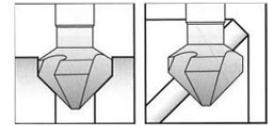
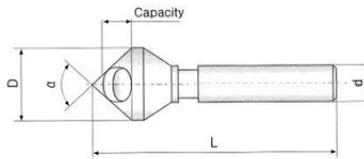
CODE	D	S	α	d	L	Z	BAHT
EM504-1601	16	4	45°	12	60	6	
EM504-1801	18	5	45°	12	63	6	
EM504-2001	20	5	45°	12	63	6	
EM504-2201	22	6	45°	12	67	6	
EM504-2501	25	6.3	45°	16	67	8	
EM504-2801	28	7.5	45°	16	67	8	
EM504-3001	30	8	45°	16	71	10	
EM504-3201	32	8	45°	16	71	10	
EM504-3501	35	10	45°	25	85	12	
EM504-4001	40	10	45°	25	85	12	
EM504-4501	45	12	45°	25	100	14	
EM504-5001	50	12	45°	25	100	16	

CODE	D	S	α	d	L	Z	BAHT
EM504-1202	12	5.5	60°	12	54	6	
EM504-1402	14	6	60°	12	58	6	
EM504-1602	16	6.3	60°	12	60	6	
EM504-1802	18	8	60°	12	63	6	
EM504-2002	20	8	60°	12	63	6	
EM504-2202	22	9	60°	12	67	6	
EM504-2502	25	10	60°	16	67	8	
EM504-2802	28	11	60°	16	67	8	
EM504-3002	30	12.5	60°	16	71	10	
EM504-3202	32	12.5	60°	16	71	10	
EM504-3502	35	13	60°	25	85	12	
EM504-4002	40	13	60°	25	85	12	
EM504-4502	45	16	60°	25	100	14	
EM504-5002	50	16	60°	25	100	16	



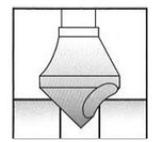
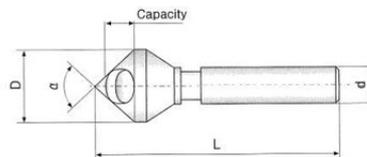
90° Single Flute Chamfering Cutters

CODE	D	d	L	Capacity	BAHT	ราคาต่อชุด
EM592-0100	10	6	45	1-10		EM592-1025 ----/SET EM592-1025T (Tin) ----/SET (ø10-15-20-25-30)
EM592-0150	15	8	55	2-15		
EM592-0200	20	10	65	2-20		
EM592-0250	25	12	78	3-25		
EM592-0300	30	12	88	3-30		
EM592-0350	35	16	110	4-35		
EM592-0400	40	16	115	5-40		
EM592-0450	45	16	120	10-45		
EM592-0500	50	16	130	12-50		



90° Three Flutes Countersinks

CODE	D	d	L	Capacity	BAHT
EM594-0043	4.3	4	40	1.3-4.3	
EM594-0050	5	4	40	1.5-5	
EM594-0060	6	5	45	1.5-6	
EM594-0063	6.3	5	45	1.5-6.3	
EM594-0070	7	6	50	1.8-7	
EM594-0080	8	6	50	2-8	
EM594-0083	8.3	6	50	2-8.3	
EM594-0100	10	6	50	2.5-10	
EM594-0104	10.4	6	50	2.5-10.4	
EM594-0115	11.5	8	56	2.8-11.5	
EM594-0124	12.4	8	56	2.8-12.4	
EM594-0150	15	10	60	3.2-15	
EM594-0165	16.5	10	60	3.2-16.5	
EM594-0190	19	10	63	3.5-19	
EM594-0205	20.5	10	63	3.5-20.5	
EM594-0230	23	10	67	3.8-23	
EM594-0250	25	10	67	3.8-25	
EM594-0300	30	12	71	4.2-30	
EM594-0310	31	12	71	4.2-31	
EM594-0350	35	16	110	4.5-35	
EM594-0400	40	16	115	4.5-40	



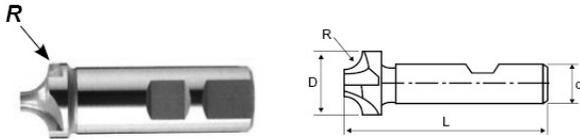
90° Tool With Hole

CODE	D	d	L	Capacity	BAHT	ราคาต่อชุด
EM596-0100	10	6	45	2-5		EM596-1025 ----/SET (ø10-15-20-25-30)
EM596-0150	15	8	55	6-14		
EM596-0200	20	10	65	8-18		
EM596-0250	25	12	78	10-23		
EM596-0300	30	12	88	12-28		
EM596-0350	35	16	110	14-33		
EM596-0400	40	16	115	16-38		
EM596-0450	45	16	120	18-43		
EM596-0500	50	16	130	20-24		

Tolerance			
D	a	d	L
+0.3	-1°	h9	±1



**STK CUTTER R ใน
 M42-CO8 4FLUTE CORNER
 ROUNDING CUTTERS**



CODE	R	D	d	L	BAHT
EM598-0010	1	8	10	60	
EM598-0015	1.5	9	10	60	
EM598-0020	2	10	10	60	
EM598-0025	2.5	11	10	60	
EM598-0030	3	12	12	60	
EM598-0035	3.5	13	12	60	
EM598-0040	4	14	12	60	
EM598-0045	4.5	15	12	60	
EM598-0050	5	16	12	60	
EM598-0055	5.5	19	16	67	
EM598-0060	6	20	16	67	
EM598-0065	6.5	21	16	71	
EM598-0070	7	22	16	71	
EM598-0075	7.5	23	16	71	
EM598-0080	8	24	16	71	
EM598-0085	8.5	25	25	85	
EM598-0090	9	26	25	85	
EM598-0095	9.5	27	25	85	
EM598-0100	10	28	25	85	
EM598-0105	10.5	31	25	90	
EM598-0110	11	32	25	90	
EM598-0120	12	34	25	90	
EM598-0125	12.5	41	25	100	
EM598-0130	13	42	25	100	
EM598-0140	14	44	25	100	
EM598-0150	15	46	25	100	
EM598-0160	16	48	25	100	

STK+17 มีดกลึงกลม (2300)



CODE	SIZE	BAHT
TB110-I00804	1/8 X 4"	
TB110-I01204	3/16 X 4"	
TB110-I01604	1/4 X 4"	
TB110-I02004	5/16 X 4"	
TB110-I02404	3/8 X 4"	
TB110-I03204	1/2 X 4"	
TB110-030100	3 X 100mm	
TB110-040100	4 X 100mm	
TB110-050100	5 X 100mm	
TB110-060100	6 X 100mm	
TB110-080100	8 X 100mm	
TB110-100100	10 X 100mm	
TB110-120100	12 X 100mm	

STK® มีดกลึงกลมคาร์ไบด์



CODE	SIZE	BAHT
TB910-015100	1.5 X 100mm	
TB910-020100	2.0 x 100mm	
TB910-025100	2.5 x 100mm	
TB910-030100	3.0 x 100mm	
TB910-040100	4.0 x 100mm	
TB910-050100	5.0 x 100mm	
TB910-060100	6.0 x 100mm	
TB910-080100	8.0 x 100mm	
TB910-100100	10 x 100mm	
TB910-120100	12 x 100mm	

STK+17 มีดกลึงเหลี่ยม (2300)



CODE	SIZE	BAHT
TB210-I02004	5/16 X 4"	
TB210-I02008	5/16 X 8"	
TB210-I02404	3/8 X 4"	
TB210-I02408	3/8 X 8"	
TB210-I03204	1/2 X 4"	
TB210-I03208	1/2 X 8"	
TB210-I04004	5/8 X 4-1/2"	



X-POWER for High Speed Cutting **TiALN-COATED**

2FL



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM810-0002	0.2	3	0.4	38	
EM810-0003	0.3	3	0.6	38	
EM810-0004	0.4	3	0.8	38	
EM810-0005	0.5	3	1.0	38	
EM810-0006	0.6	3	1.2	38	
EM810-0007	0.7	3	1.4	38	
EM810-0008	0.8	3	1.6	38	
EM810-0009	0.9	3	2.0	38	
EM810-0010	1	4	2.5	50	
EM810-0011	1.1	4	2.5	50	
EM810-0012	1.2	4	4	50	
EM810-0013	1.3	4	4	50	
EM810-0014	1.4	4	4	50	
EM810-0015	1.5	4	4	50	
EM810-0016	1.6	4	5	50	
EM810-0018	1.8	4	5	50	
EM810-0020	2	4	6	50	
EM810-0025	2.5	4	8	50	
EM810-0030	3	6	8	50	
EM810-0035	3.5	6	10	50	
EM810-0040	4	6	12	50	
EM810-0045	4.5	6	12	50	
EM810-0050	5	6	13	50	
EM810-0060	6	6	16	50	
EM810-0070	7	8	16	63	
EM810-0080	8	8	20	63	
EM810-0090	9	10	20	70	
EM810-0100	10	10	22	76	
EM810-0110	11	12	22	76	
EM810-0120	12	12	26	76	
EM810-0140	14	14	26	85	
EM810-0160	16	16	32	100	
EM810-0180	18	18	32	100	
EM810-0200	20	20	38	105	

4F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM811-0010	1	4	2.5	50	
EM811-0015	1.5	4	4	50	
EM811-0020	2	4	6	50	
EM811-0025	2.5	4	8	50	
EM811-0030	3	6	8	50	
EM811-0035	3.5	6	10	50	
EM811-0040	4	6	12	50	
EM811-0045	4.5	6	12	50	
EM811-0050	5	6	13	50	
EM811-0060	6	6	16	50	
EM811-0070	7	8	16	63	
EM811-0080	8	8	20	63	
EM811-0090	9	10	20	70	
EM811-0100	10	10	22	76	
EM811-0110	11	12	22	76	
EM811-0120	12	12	26	76	
EM811-0140	14	14	26	85	
EM811-0160	16	16	32	100	
EM811-0180	18	18	32	100	
EM811-0200	20	20	38	105	

規格	0.2-0.9	1-3	3-6	6-10	10-18	18-30
刃徑 e8	0 -0.012	-0.014 -0.028	-0.020 -0.038	-0.025 -0.047	-0.032 -0.059	-0.040 -0.073
柄部 h6	0 -0.006	0 -0.006	0 -0.008	0 -0.009	0 -0.011	0 -0.013

4F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM811-1004	1/16	1/8	3/16	1-1/2	
EM811-1008	1/8	1/8	1/2	1-1/2	
EM811-1012	3/16	3/16	5/8	2"	
EM811-1016	1/4	1/4	3/4	2-1/2	
EM811-1020	5/16	5/16	13/16	2-1/2	
EM811-1024	3/8	3/8	1"	2-1/2	
EM811-1032	1/2	1/2	1"	3"	
EM811-1040	5/8	5/8	1-1/4	3-1/2	
EM811-1048	3/4	3/4	1-1/2	4"	

2F แกนเล็ก



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM808-0010	1	3	4	38	
EM808-0015	1.5	3	4	38	
EM808-0020	2	3	6.5	38	
EM808-0025	2.5	3	6.5	38	
EM808-0030	3	3	9.5	38	
EM808-0040	4	4	12	50	

4F แกนเล็ก



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM809-0010	1	3	4	38	
EM809-0015	1.5	3	4	38	
EM809-0020	2	3	6.5	38	
EM809-0025	2.5	3	6.5	38	
EM809-0030	3	3	9.5	38	
EM809-0040	4	4	12	50	

2F รุนยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM816-0030	3	6	19	63	
EM816-0040	4	6	19	63	
EM816-0050	5	6	20	63	
EM816-0060	6	6	28	76	
EM816-0080	8	8	25	76	
EM816-0100	10	10	34	90	
EM816-0120	12	12	45	100	
EM816-0160	16	16	56	110	
EM816-0200	20	20	56	125	

4F รุนยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM817-0030	3	6	19	63	
EM817-0040	4	6	19	63	
EM817-0050	5	6	20	63	
EM817-0060	6	6	28	76	
EM817-0080	8	8	28	76	
EM817-0100	10	10	34	90	
EM817-0120	12	12	45	100	
EM817-0160	16	16	56	110	
EM817-0200	20	20	56	125	

4F รุนยาวพิเศษ



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM827-0030	3	3	25	75	
EM827-0040	4	4	31	75	
EM827-0050	5	5	31	100	
EM827-0060	6	6	38	100	
EM827-0080	8	8	41	100	
EM827-0100	10	10	45	100	
EM827-0120	12	12	75	150	
EM827-0160	16	16	75	150	
EM827-0200	20	20	75	150	



X-POWER for High Speed Cutting **TiALN-COATED**

2F มุม R



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM822-0102	1 X R0.2	4	2.5	50	
EM822-0152	1.5 X R0.2	4	4	50	
EM822-0202	2 X R0.2	4	6	50	
EM822-0252	2.5 X R0.2	4	8	50	
EM822-0302	3 X R0.2	6	8	50	
EM822-0303	3 X R0.3	6	8	50	
EM822-0305	3 X R0.5	6	8	50	
EM822-0402	4 X R0.2	6	12	50	
EM822-0403	4 X R0.3	6	12	50	
EM822-0405	4 X R0.5	6	12	50	
EM822-0503	5 X R0.3	6	13	50	
EM822-0505	5 X R0.5	6	13	50	
EM822-0603	6 X R0.3	6	16	50	
EM822-0605	6 X R0.5	6	16	50	
EM822-0610	6 X R1	6	16	50	
EM822-0803	8 X R0.3	8	20	63	
EM822-0805	8 X R0.5	8	20	63	
EM822-0810	8 X R1	8	20	63	
EM822-1003	10 X R0.3	10	22	76	
EM822-1005	10 X R0.5	10	22	76	
EM822-1010	10 X R1	10	22	76	
EM822-1205	12 X R0.5	12	26	76	
EM822-1210	12 X R1	12	26	76	
EM822-1215	12 X R1.5	12	26	76	

2F มุม R รุ้่นยาว



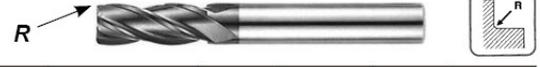
CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM818-0303	3 X R0.3	6	15	63	
EM818-0305	3 X R0.5	6	15	63	
EM818-0403	4 X R0.3	6	15	63	
EM818-0405	4 X R0.5	6	15	63	
EM818-0503	5 X R0.3	6	20	63	
EM818-0505	5 X R0.5	6	20	63	
EM818-0603	6 X R0.3	6	20	63	
EM818-0605	6 X R0.5	6	20	63	
EM818-0610	6 X R1	6	20	63	
EM818-0805	8 X R0.5	8	25	76	
EM818-0810	8 X R1	8	25	76	
EM818-0815	8 X R1.5	8	25	76	
EM818-0820	8 X R2	8	25	76	
EM818-1005	10 X R0.5	10	34	90	
EM818-1010	10 X R1	10	34	90	
EM818-1015	10 X R1.5	10	34	90	
EM818-1020	10 X R2	10	34	90	
EM818-1205	12 X R0.5	12	40	100	
EM818-1210	12 X R1	12	40	100	
EM818-1215	12 X R1.5	12	40	100	
EM818-1220	12 X R2	12	40	100	

4F มุม R



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM824-0202	2 X R0.2	4	6	50	
EM824-0252	2.5 X R0.2	4	8	50	
EM824-0302	3 X R0.2	6	8	50	
EM824-0303	3 X R0.3	6	8	50	
EM824-0305	3 X R0.5	6	8	50	
EM824-0402	4 X R0.2	6	12	50	
EM824-0403	4 X R0.3	6	12	50	
EM824-0405	4 X R0.5	6	12	50	
EM824-0503	5 X R0.3	6	13	50	
EM824-0505	5 X R0.5	6	13	50	
EM824-0603	6 X R0.3	6	16	50	
EM824-0605	6 X R0.5	6	16	50	
EM824-0610	6 X R1	6	16	50	
EM824-0803	8 X R0.3	8	20	63	
EM824-0805	8 X R0.5	8	20	63	
EM824-0810	8 X R1	8	20	63	
EM824-1003	10 X R0.3	10	22	76	
EM824-1005	10 X R0.5	10	22	76	
EM824-1010	10 X R1	10	22	76	
EM824-1205	12 X R0.5	12	26	76	
EM824-1210	12 X R1	12	26	76	
EM824-1215	12 X R1.5	12	26	76	

4F มุม R รุ้่นยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM819-0303	3 X R0.3	6	15	63	
EM819-0305	3 X R0.5	6	15	63	
EM819-0403	4 X R0.3	6	15	63	
EM819-0405	4 X R0.5	6	15	63	
EM819-0503	5 X R0.3	6	20	63	
EM819-0505	5 X R0.5	6	20	63	
EM819-0603	6 X R0.3	6	20	63	
EM819-0605	6 X R0.5	6	20	63	
EM819-0610	6 X R1	6	20	63	
EM819-0805	8 X R0.5	8	25	76	
EM819-0810	8 X R1	8	25	76	
EM819-0815	8 X R1.5	8	25	76	
EM819-0820	8 X R2	8	25	76	
EM819-1005	10 X R0.5	10	34	90	
EM819-1010	10 X R1	10	34	90	
EM819-1015	10 X R1.5	10	34	90	
EM819-1020	10 X R2	10	34	90	
EM819-1205	12 X R0.5	12	40	100	
EM819-1210	12 X R1	12	40	100	
EM819-1215	12 X R1.5	12	40	100	
EM819-1220	12 X R2	12	40	100	
EM819-1605	16 X R0.5	16	50	110	
EM819-1610	16 X R1	16	50	110	
EM819-1615	16 X R1.5	16	50	110	
EM819-1620	16 X R2	16	50	110	
EM819-2005	20 X R0.5	20	55	125	
EM819-2010	20 X R1	20	55	125	
EM819-2015	20 X R1.5	20	55	125	
EM819-2020	20 X R2	20	55	125	



X-P-W for High Speed Cutting **TiAlN-COATED**

★ 本系列適合CNC銑床高速生產使用，可切削鋼材硬度 60° 以下，不鏽鋼、鈦合金、鎳合金、鑄鐵等難削材料

3F (45°)



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM815-0010	1	4	3	50	
EM815-0015	1.5	4	3	50	
EM815-0020	2	4	3	50	
EM815-0025	2.5	4	5	50	
EM815-0030	3	6	8	50	
EM815-0035	3.5	6	12	50	
EM815-0040	4	6	12	50	
EM815-0045	4.5	6	14	50	
EM815-0050	5	6	14	50	
EM815-0060	6	6	16	50	
EM815-0080	8	8	20	63	
EM815-0100	10	10	22	76	
EM815-0120	12	12	25	76	
EM815-0160	16	16	32	89	
EM815-0200	20	20	38	104	

4F (38°)



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM821-0030	3	6	8	55	
EM821-0035	3.5	6	10	55	
EM821-0040	4	6	12	55	
EM821-0050	5	6	13	57	
EM821-0060	6	6	13	57	
EM821-0080	8	8	16	63	
EM821-0100	10	10	22	72	
EM821-0120	12	12	26	83	
EM821-0140	14	14	26	83	
EM821-0160	16	16	32	92	
EM821-0200	20	20	38	104	

4F มุม R



CODE	ขนาด	แกน	คมกััด	ยาว	ฟัน	BAHT
EM820-0405	4 X R0.5	6	4	12	50	
EM820-0505	5 X R0.5	6	5	15	50	
EM820-0605	6 X R0.5	6	6	18	50	
EM820-0610	6 X R1	6	6	18	50	
EM820-0805	8 X R0.5	8	8	24	63	
EM820-0810	8 X R1	8	8	24	63	
EM820-1010	10 X R1	10	10	30	76	
EM820-1020	10 X R2	10	10	30	76	
EM820-1210	12 X R1	12	12	36	76	
EM820-1220	12 X R2	12	12	36	76	

4F

มุม 38° เหมาะกับเหล็กชุบแข็งไม่เกิน HRC48°



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM831-0010	1	4	3	50	
EM831-0015	1.5	4	5	50	
EM831-0020	2	4	6	50	
EM831-0025	2.5	4	8	50	
EM831-0030A	3	4	8	50	
EM831-0040A	4	4	11	50	
EM831-0030	3	6	8	50	
EM831-0035	3.5	6	10	50	
EM831-0040	4	6	11	50	
EM831-0045	4.5	6	11	50	
EM831-0050	5	6	13	50	
EM831-0060	6	6	16	50	
EM831-0070	7	8	20	60	
EM831-0080	8	8	20	60	
EM831-0090	9	10	22	72	
EM831-0100	10	10	22	72	
EM831-0120	12	12	26	75	
EM831-0140	14	16	32	90	
EM831-0160	16	16	38	100	
EM831-0180	18	20	38	100	
EM831-0200	20	20	38	100	

กัดหยาบ

มุม 20° เหมาะกับเหล็กชุบแข็งไม่เกิน HRC55°



CODE	ขนาด	แกน	คมกััด	ยาว	ฟัน	BAHT
EM814-0030	3	6	11	55	3	
EM814-0040	4	6	11	55	3	
EM814-0050	5	6	13	57	3	
EM814-0060	6	6	13	57	3	
EM814-0080	8	8	16	63	3	
EM814-0100	10	10	22	72	4	
EM814-0120	12	12	26	83	4	
EM814-0140	14	14	26	83	4	
EM814-0160	16	16	32	92	4	
EM814-0180	18	18	32	92	4	
EM814-0200	20	20	38	104	4	

กัดหยาบ



CODE	ขนาด	แกน	คมกััด	ยาว	ฟัน	BAHT
EM814-I016	1/4	1/4	3/4	2-1/2	3	
EM814-I020	5/16	5/16	3/4	2-1/2	3	
EM814-I024	3/8	3/8	7/8	2-1/2	3	
EM814-I032	1/2	1/2	1"	3"	4	
EM814-I040	5/8	5/8	1-1/4	3-1/2	4	
EM814-I048	3/4	3/4	1-5/8	4"	4	
EM814-I101	1"	1"	1-3/4	4"	5	

公差 DIN 7160 標準

mm

0.2-0.9	1-3	3-6	6-10	10-18	18-30
0	-0.014	-0.020	-0.025	-0.032	-0.040
-0.012	-0.028	-0.038	-0.047	-0.059	-0.073
0	0	0	0	0	0
-0.006	-0.006	-0.008	-0.009	-0.011	-0.013



X-POWER for High Speed Cutting **TiALN-COATED**

4F&6F 50° รุ่นก้านยาว



特別適合高速精加工, 可銑削
HRC45°-70° 淬火鋼

CODE	ขนาด	แกน	คมกัด	ยาว	ฟัน	BAHT
EM891-0030	3	4	8	50	4	
EM891-0040	4	6	12	57	4	
EM891-0050	5	6	13	57	4	
EM891-0060	6	6	15	60	6	
EM891-0080	8	8	20	75	6	
EM891-0100	10	10	25	80	6	
EM891-0120	12	12	30	100	6	
EM891-0160	16	16	40	110	6	
EM891-0200	20	20	45	120	6	

6F&8F 45°



CODE	ขนาด	แกน	คมกัด	ยาว	ฟัน	BAHT
EM812-0060	6	6	13	57	6	
EM812-0070	7	8	16	63	6	
EM812-0080	8	8	19	63	6	
EM812-0090	9	10	19	72	6	
EM812-0100	10	10	22	72	6	
EM812-0120	12	12	26	83	6	
EM812-0140	14	14	26	83	6	
EM812-0160	16	16	32	92	6	
EM812-0180	18	18	32	92	8	
EM812-0200	20	20	38	104	8	

4F&6F 5050° รุ่นยาว



特別適合高速精加工, 可銑削
HRC45°-70° 淬火鋼

CODE	ขนาด	แกน	คมกัด	ยาว	ฟัน	BAHT
EM892-0060	6	6	21	76	4	
EM892-0080	8	8	28	100	4	
EM892-0100	10	10	35	100	5	
EM892-0120	12	12	42	125	6	
EM892-0160	16	16	56	125	6	
EM892-0200	20	20	70	150	6	

4F 50° รุ่นคอยาว



細的頸部可加工深度為刃徑的
2.5倍

CODE	ขนาด	แกน	คมกัด	คอยาว	ฟัน	BAHT
EM895-0040	4	6	6	10	50	
EM895-0050	5	6	7.5	13	50	
EM895-0060	6	6	9	16	50	
EM895-0080	8	8	12	21	63	
EM895-0100	10	10	15	26	76	
EM895-0120	12	12	18	31	76	
EM895-0160	16	16	24	41	89	
EM895-0200	20	20	30	51	104	
EM895-0250	25	25	38	65	121	

4F 50° รุ่นคอยาวก้านยาว



細的頸部可加工深度為刃徑的
4倍

CODE	ขนาด	แกน	คมกัด	คอยาว	ฟัน	BAHT
EM897-0040	4	6	6	16	63	
EM897-0050	5	6	7.5	20	63	
EM897-0060	6	6	9	24	76	
EM897-0080	8	8	12	32	100	
EM897-0100	10	10	15	40	100	
EM897-0120	12	12	18	48	125	
EM897-0160	16	16	24	64	125	
EM897-0200	20	20	30	80	150	
EM897-0250	25	25	38	100	150	

公差 **DIN 7160** 標準

mm

規格	0.2-0.9	1-3	3-6	6-10	10-18	18-30
刃徑 e8	0 -0.012	-0.014 -0.028	-0.020 -0.038	-0.025 -0.047	-0.032 -0.059	-0.040 -0.073
柄部 h6	0 -0.006	0 -0.006	0 -0.008	0 -0.009	0 -0.011	0 -0.013

4F 50° มุม R



細的頸部可加工深度為刃徑的2.5倍

CODE	ขนาด	แกน	คมกัด	คอยาว	ฟัน	BAHT
EM896-0405	4 X R0.5	6	6	10	50	
EM896-0505	5 X R0.5	6	7.5	13	50	
EM896-0605	6 X R0.5	6	9	16	50	
EM896-0610	6 X R1	6	9	16	50	
EM896-0805	8 X R0.5	8	12	21	63	
EM896-0810	8 X R1	8	12	21	63	
EM896-1005	10 X R0.5	10	15	26	76	
EM896-1010	10 X R1	10	15	26	76	
EM896-1020	10 X R2	10	15	26	76	
EM896-1205	12 X R0.5	12	18	31	76	
EM896-1210	12 X R1	12	18	31	76	
EM896-1220	12 X R2	12	18	31	76	
EM896-1610	16 X R1	16	24	41	89	
EM896-1620	16 X R2	16	24	41	89	
EM896-2010	20 X R1	20	30	51	104	
EM896-2020	20 X R2	20	30	51	104	

4F 50° มุม R เป็นมุมมน รุ่นคอยาวก้านยาว



細的頸部可加工深度為刃徑的4倍

CODE	ขนาด	แกน	คมกัด	คอยาว	ฟัน	BAHT
EM898-0405	4 X R0.5	6	6	16	63	
EM898-0505	5 X R0.5	6	7.5	20	63	
EM898-0605	6 X R0.5	6	9	24	76	
EM898-0610	6 X R1	6	9	24	76	
EM898-0805	8 X R0.5	8	12	32	100	
EM898-0810	8 X R1	8	12	32	100	
EM898-1005	10 X R0.5	10	15	40	100	
EM898-1010	10 X R1	10	15	40	100	
EM898-1020	10 X R2	10	15	40	100	
EM898-1205	12 X R0.5	12	18	48	125	
EM898-1210	12 X R1	12	18	48	125	
EM898-1220	12 X R2	12	18	48	125	
EM898-1610	16 X R1	16	24	64	125	
EM898-1620	16 X R2	16	24	64	125	
EM898-2010	20 X R1	20	30	80	150	
EM898-2020	20 X R2	20	30	80	150	

★ 以上系列適合CNC銑床高速生產使用, 可切削鋼材硬度60° 以下, 不鏽鋼, 鈦合金, 鎳合金等難削材料。



X-POWER for High Speed Cutting **TiALN-COATED**

2F หัวมน มุม 30°

30° 螺旋角



R: ± 0.02mm

CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM813-0010	1.0 (R0.5)	4	2.5	50	
EM813-0015	1.5 (R0.75)	4	4	50	
EM813-0020	2.0 (R1)	6	5	60	
EM813-0025	2.5 (R1.25)	6	6	60	
EM813-0030	3.0 (R1.5)	6	8	70	
EM813-0040	4.0 (R2)	6	8	70	
EM813-0050	5.0 (R2.5)	6	10	80	
EM813-0060	6.0 (R3)	6	12	90	
EM813-0070	7.0 (R3.5)	8	14	90	
EM813-0080	8.0 (R4)	8	14	100	
EM813-0090	9.0 (R4.5)	10	18	100	
EM813-0100	10 (R5)	10	18	100	
EM813-0120	12 (R6)	12	22	110	
EM813-0140	14 (R7)	14	26	120	
EM813-0160	16 (R8)	16	30	140	
EM813-0180	18 (R9)	18	34	140	
EM813-0200	20 (R10)	20	38	160	

2F หัวมน รุ่นก้านยาวพิเศษ



R: ± 0.02mm

CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM838-0020	2.0 (R1)	3	6	80	
EM838-0030	3.0 (R1.5)	3	8	100	
EM838-0040	4.0 (R2)	4	8	100	
EM838-0050	5.0 (R2.5)	6	10	120	
EM838-0060	6.0 (R3)	6	10	120	
EM838-0080	8.0 (R4)	8	14	140	
EM838-0100	10 (R5)	10	18	180	
EM838-0120	12 (R6)	12	22	200	
EM838-0160	16 (R8)	16	30	250	
EM838-0200	20 (R10)	20	38	250	

2F หัวมน ก้านยาวคมกัดสั้น 15°

15° 螺旋角



R: ± 0.01mm

CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM868-0010	1.0 (R0.5) X 2.2	4	1	50	
EM868-0015	1.5 (R0.75) X 3	4	1.5	50	
EM868-0020	2.0 (R1) X 4	6	2	50	
EM868-0030	3.0 (R1.5) X 6	6	3	60	
EM868-0040	4.0 (R2) X 8	6	4	70	
EM868-0050	5.0 (R2.5) X 10	6	5	80	
EM868-0060	6.0 (R3) X 12	6	6	90	
EM868-0070	7.0 (R3.5) X 14	8	7	90	
EM868-0080	8.0 (R4) X 16	8	8	100	
EM868-0090	9.0 (R4.5) X 18	10	9	100	
EM868-0100	10 (R5) X 20	10	10	100	
EM868-0120	12 (R6) X 24	12	12	110	
EM868-0160	16 (R8) X 32	16	16	140	
EM868-0200	20 (R10) X 40	20	20	160	

公差 DIN 7160 標準

mm

規格	0.2-0.9	1-3	3-6	6-10	10-18	18-30
刃徑 e8	0 -0.012	-0.014 -0.028	-0.020 -0.038	-0.025 -0.047	-0.032 -0.059	-0.040 -0.073
柄部 h6	0 -0.006	0 -0.006	0 -0.008	0 -0.009	0 -0.011	0 -0.013

★ 本系列適合CNC銑床高速生產使用，可切削鋼材硬度60° 以下，不鏽鋼、鈦合金、鎳合金等難削材料。

2F หัวมน



mm

CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM865-0003	0.3 (R0.15)	3	0.6	38	
EM865-0004	0.4 (R0.2)	3	0.8	38	
EM865-0005	0.5 (R0.25)	3	1	38	
EM865-0006	0.6 (R0.3)	3	1.1	38	
EM865-0007	0.7 (R0.35)	3	1.5	38	
EM865-0008	0.8 (R0.4)	3	2	38	
EM865-0009	0.9 (R0.45)	3	2.2	38	
EM865-0010	1.0 (R0.5)	3	2.5	38	
EM865-0011	1.1 (R0.55)	3	3	38	
EM865-0012	1.2 (R0.6)	3	3	38	
EM865-0013	1.3 (R0.65)	3	3.5	38	
EM865-0014	1.4 (R0.7)	3	3.5	38	
EM865-0015	1.5 (R0.75)	3	4	38	
EM865-0016	1.6 (R0.8)	3	4	38	
EM865-0017	1.7 (R0.85)	3	4.5	38	
EM865-0018	1.8 (R0.9)	3	4.5	38	
EM865-0019	1.9 (R0.95)	3	5	38	
EM865-0020	2.0 (R1)	3	5	38	
EM865-0021	2.1 (R1.05)	3	6	38	
EM865-0022	2.2 (R1.1)	3	6	38	
EM865-0023	2.3 (R1.15)	3	6	38	
EM865-0024	2.4 (R1.2)	3	6	38	
EM865-0025	2.5 (R1.25)	3	6	38	
EM865-0026	2.6 (R1.3)	3	8	38	
EM865-0027	2.7 (R1.35)	3	8	38	
EM865-0028	2.8 (R1.4)	3	8	38	
EM865-0029	2.9 (R1.45)	3	8	38	
EM865-0030	3.0 (R1.5)	3	8	38	

2F หัวมนคมกัดสั้น 15° สำหรับ HRC60°-70°



R: ± 0.01mm

CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM866-0010	1	3	3	38	
EM866-0015	1.5	3	3	38	
EM866-0020	2	3	3	38	
EM866-0025	2.5	3	3	38	
EM866-0030	3	3	3	38	
EM866-0040	4	4	4	50	
EM866-0050	5	5	5	50	
EM866-0060	6	6	6	50	
EM866-0080	8	8	8	63	
EM866-0100	10	10	10	76	
EM866-0120	12	12	12	76	

4F หัวมนคมกัดสั้น 15° สำหรับ HRC60°-70°



R: ± 0.01mm

CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM867-0020	2	3	3	38	
EM867-0030	3	3	3	38	
EM867-0040	4	4	4	50	
EM867-0050	5	5	5	50	
EM867-0060	6	6	6	50	
EM867-0080	8	8	8	63	
EM867-0100	10	10	10	76	
EM867-0120	12	12	12	76	



X-POWER for High Speed Cutting **TiALN-COATED**

2F หัวมิลคอคเตอร์ 15°



คอคเตอร์ 1.5°
R: ± 0.01mm

CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM802-0010	1.0 (R0.5)	6	2	60	
EM802-0020	2.0 (R1)	6	4	60	
EM802-0030	3.0 (R1.5)	6	6	90	
EM802-0040	4.0 (R2)	6	8	90	
EM802-0050	5.0 (R2.5)	8	10	110	
EM802-0060	6.0 (R3)	8	12	110	
EM802-0080	8.0 (R4)	10	14	120	
EM802-0100	10 (R5)	12	18	130	
EM802-0120	12 (R6)	16	22	160	

2F หัวมิลคอคเตอร์ 15° สำหรับ HRC 60°-70°



คอคเตอร์ 1.5°
R: ± 0.01mm

CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM869-0020	2 (R1)	4	2	63	
EM869-0025	2.5 (R1.25)	4	2.5	63	
EM869-0030	3 (R1.5)	6	3	75	
EM869-0040	4 (R2)	6	4	75	
EM869-0050	5 (R2.5)	6	5	75	
EM869-0060	6 (R3)	10	6	100	
EM869-0080	8 (R4)	10	8	100	
EM869-0100	10 (R5)	12	10	125	
EM869-0120	12 (R6)	16	12	125	
EM869-0160	16 (R8)	16	16	125	
EM869-0200	20 (R10)	20	20	150	

4F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM803-0030	3 X 15	6	4.5	70	
EM803-0035	3.5 X 17.5	6	5.3	70	
EM803-0040	4 X 20	6	6	70	
EM803-0050	5 X 25	6	7.5	80	
EM803-0060	6 X 30	6	9	90	

2F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM806-0003	0.3 X --	6	0.4	50	
EM806-0004	0.4 X --	6	0.6	50	
EM806-0005	0.5 X 1.5	6	0.7	50	
EM806-0006	0.6 X 1.8	6	0.9	50	
EM806-0008	0.8 X 2.4	6	1.2	50	
EM806-0010	1 X 2.5	6	1.5	50	
EM806-0012	1.2 X 3	6	1.8	50	
EM806-0014	1.4 X 3.5	6	2.1	50	
EM806-0015	1.5 X 3.8	6	2.3	50	
EM806-0016	1.6 X 4	6	2.4	50	
EM806-0018	1.8 X 4.5	6	2.7	50	
EM806-0020	2 X 5	6	3	50	
EM806-0025	2.5 X 5	6	3.7	50	

公差 DIN 7160 標準

規格	0.2-0.9	1-3	3-6	6-10	10-18	18-30
刃徑 e8	0 -0.012	-0.014 -0.028	-0.020 -0.038	-0.025 -0.047	-0.032 -0.059	-0.040 -0.073
柄部 h6	0 -0.006	0 -0.006	0 -0.008	0 -0.009	0 -0.011	0 -0.013

2F หัวมิล



mm

CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM804-0003	R0.15 X --	6	0.3	50	
EM804-0004	R0.2 X --	6	0.4	50	
EM804-0005	R0.25 X 1.5	6	0.5	50	
EM804-0006	R0.3 X 1.8	6	0.6	50	
EM804-0008	R0.4 X 2.4	6	0.8	50	
EM804-0010	R0.5 X 2.5	6	1	50	
EM804-0012	R0.6 X 3	6	1.2	50	
EM804-0014	R0.7 X 3.5	6	1.4	50	
EM804-0015	R0.75 X 3.8	6	1.5	50	
EM804-0016	R0.8 X 4	6	1.6	50	
EM804-0018	R0.9 X 4.5	6	1.8	50	
EM804-0020	R1 X 5	6	2	50	
EM804-0025	R1.25 X 5	6	2.5	50	
EM804-0030	R1.5 X 6	6	3	50	
EM804-0040	R2 X 6	6	4	50	
EM804-0050	R2.5 X 7.5	6	5	50	
EM804-0060	R3 X 9	6	6	50	

2F หัวมิล



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM805-0005	R0.25 X 2.5	6	0.5	60	
EM805-0006	R0.3 X 3	6	0.6	60	
EM805-0008	R0.4 X 4	6	0.8	60	
EM805-0010	R0.5 X 5	6	1	60	
EM805-0012	R0.6 X 6	6	1.2	60	
EM805-0014	R0.7 X 7	6	1.4	60	
EM805-0015	R0.75 X 7.5	6	1.5	60	
EM805-0016	R0.8 X 8	6	1.6	60	
EM805-0018	R0.9 X 9	6	1.8	60	
EM805-0020	R1 X 10	6	2	60	
EM805-0025	R1.25 X 12.5	6	2.5	60	
EM805-0030	R1.5 X 15	6	3	70	
EM805-0035	R1.75 X 17.5	6	3.5	70	
EM805-0040	R2 X 20	6	4	70	
EM805-0050	R2.5 X 25	6	5	80	
EM805-0060	R3 X 30	6	6	90	

2F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM807-0005	0.5 X 2.5	6	0.7	60	
EM807-0006	0.6 X 3	6	0.9	60	
EM807-0008	0.8 X 4	6	1.2	60	
EM807-0010	1 X 5	6	1.5	60	
EM807-0012	1.2 X 6	6	1.8	60	
EM807-0014	1.4 X 7	6	2.1	60	
EM807-0015	1.5 X 7.5	6	2.3	60	
EM807-0016	1.6 X 8	6	2.4	60	
EM807-0018	1.8 X 9	6	2.7	60	
EM807-0020	2 X 10	6	3	60	
EM807-0025	2.5 X 12.5	6	3.7	60	

★ 本系列適合CNC銑床高速生產使用，可切削鋼材硬度60° 以下，不鏽鋼、鈦合金、鎳合金等難削材料。



X-POWER for High Speed Cutting **TiALN-COATED**

2F หัวมัน รุ่นค้อยาว



螺旋角度: 30°

CODE	ขนาด x ค้อยาว	แกน	คมกััด	ยาว	BAHT
EM886-0302	R0.15 X 2	3	0.6	38	
EM886-0402	R0.2 X 2	3	0.6	38	
EM886-0404	R0.2 X 4	3	0.6	38	
EM886-0504	R0.25 X 4	3	0.7	38	
EM886-0506	R0.25 X 6	3	0.7	38	
EM886-0606	R0.3 X 6	3	0.9	38	
EM886-0806	R0.4 X 6	4	1.2	50	
EM886-0808	R0.4 X 8	4	1.2	50	
EM886-1006	R0.5 X 6	4	1.5	50	
EM886-1008	R0.5 X 8	4	1.5	50	
EM886-1010	R0.5 X 10	4	1.5	50	
EM886-1012	R0.5 X 12	4	1.5	50	
EM886-1208	R0.6 X 8	4	1.8	50	
EM886-1212	R0.6 X 12	4	1.8	50	
EM886-1412	R0.7 X 12	4	2.1	50	

CODE	ขนาด x ค้อยาว	แกน	คมกััด	ยาว	BAHT
EM886-1508	R0.75 X 8	4	2.3	50	
EM886-1512	R0.75 X 12	4	2.3	50	
EM886-1516	R0.75 X 16	4	2.3	50	
EM886-1616	R0.8 X 16	4	2.4	50	
EM886-1816	R0.9 X 16	4	2.7	50	
EM886-2008	R1 X 8	4	3	50	
EM886-2012	R1 X 12	4	3	50	
EM886-2016	R1 X 16	4	3	50	
EM886-2020	R1 X 20	4	3	60	
EM886-3016	R1.5 X 16	6	4.5	60	
EM886-3020	R1.5 X 20	6	4.5	60	
EM886-4016	R2 X 16	6	6	60	
EM886-4020	R2 X 20	6	6	70	
EM886-4025	R2 X 25	6	6	70	

2F รุ่นค้อยาว



螺旋角度: 30°

CODE	ขนาด x ค้อยาว	แกน	คมกััด	ยาว	BAHT
EM883-0302	0.3 X 2	3	0.6	38	
EM883-0402	0.4 X 2	3	0.6	38	
EM883-0404	0.4 X 4	3	0.6	38	
EM883-0502	0.5 X 2	3	0.7	38	
EM883-0504	0.5 X 4	3	0.7	38	
EM883-0506	0.5 X 6	3	0.7	38	
EM883-0602	0.6 X 2	3	0.9	38	
EM883-0604	0.6 X 4	3	0.9	38	
EM883-0606	0.6 X 6	3	0.9	38	
EM883-0702	0.7 X 2	4	1	50	
EM883-0704	0.7 X 4	4	1	50	
EM883-0706	0.7 X 6	4	1	50	
EM883-0804	0.8 X 4	4	1.2	50	
EM883-0806	0.8 X 6	4	1.2	50	
EM883-0808	0.8 X 8	4	1.2	50	
EM883-0906	0.9 X 6	4	1.35	50	
EM883-0908	0.9 X 8	4	1.35	50	
EM883-0910	0.9 X 10	4	1.35	50	
EM883-1006	1 X 6	4	1.5	50	
EM883-1008	1 X 8	4	1.5	50	
EM883-1010	1 X 10	4	1.5	50	
EM883-1012	1 X 12	4	1.5	50	
EM883-1206	1.2 X 6	4	1.5	50	
EM883-1208	1.2 X 8	4	1.8	50	
EM883-1210	1.2 X 10	4	1.8	50	
EM883-1212	1.2 X 12	4	1.8	50	
EM883-1406	1.4 X 6	4	2.1	50	
EM883-1408	1.4 X 8	4	2.1	50	
EM883-1410	1.4 X 10	4	2.1	50	
EM883-1412	1.4 X 12	4	2.1	50	
EM883-1414	1.4 X 14	4	2.1	50	
EM883-1416	1.4 X 16	4	2.1	50	
EM883-1506	1.5 X 6	4	2.3	50	
EM883-1508	1.5 X 8	4	2.3	50	
EM883-1510	1.5 X 10	4	2.3	50	
EM883-1512	1.5 X 12	4	2.3	50	
EM883-1514	1.5 X 14	4	2.3	50	
EM883-1516	1.5 X 16	4	2.3	50	
EM883-1518	1.5 X 18	4	2.3	60	
EM883-1520	1.5 X 20	4	2.3	60	

CODE	ขนาด x ค้อยาว	แกน	คมกััด	ยาว	BAHT
EM883-1606	1.6 X 6	4	2.4	50	
EM883-1608	1.6 X 8	4	2.4	50	
EM883-1610	1.6 X 10	4	2.4	50	
EM883-1612	1.6 X 12	4	2.4	50	
EM883-1614	1.6 X 14	4	2.4	50	
EM883-1616	1.6 X 16	4	2.4	50	
EM883-1618	1.6 X 18	4	2.4	60	
EM883-1620	1.6 X 20	4	2.4	60	
EM883-1706	1.7 X 6	4	2.6	50	
EM883-1708	1.7 X 8	4	2.6	50	
EM883-1710	1.7 X 10	4	2.6	50	
EM883-1712	1.7 X 12	4	2.6	50	
EM883-1714	1.7 X 14	4	2.6	50	
EM883-1716	1.7 X 16	4	2.6	50	
EM883-1718	1.7 X 18	4	2.6	60	
EM883-1720	1.7 X 20	4	2.6	60	
EM883-1806	1.8 X 6	4	2.7	50	
EM883-1808	1.8 X 8	4	2.7	50	
EM883-1810	1.8 X 10	4	2.7	50	
EM883-1812	1.8 X 12	4	2.7	50	
EM883-1814	1.8 X 14	4	2.7	50	
EM883-1816	1.8 X 16	4	2.7	50	
EM883-1818	1.8 X 18	4	2.7	60	
EM883-1820	1.8 X 20	4	2.7	60	
EM883-1906	1.9 X 6	4	2.8	50	
EM883-1908	1.9 X 8	4	2.8	50	
EM883-1910	1.9 X 10	4	2.8	50	
EM883-1912	1.9 X 12	4	2.8	50	
EM883-1914	1.9 X 14	4	2.8	50	
EM883-1916	1.9 X 16	4	2.8	50	
EM883-1918	1.9 X 18	4	2.8	60	
EM883-1920	1.9 X 20	4	2.8	60	

CODE	ขนาด x ค้อยาว	แกน	คมกััด	ยาว	BAHT
EM883-2006	2 X 6	4	3	50	
EM883-2008	2 X 8	4	3	50	
EM883-2010	2 X 10	4	3	50	
EM883-2012	2 X 12	4	3	50	
EM883-2014	2 X 14	4	3	50	
EM883-2016	2 X 16	4	3	50	
EM883-2018	2 X 18	4	3	60	
EM883-2020	2 X 20	4	3	60	
EM883-2025	2 X 25	4	3	60	
EM883-2030	2 X 30	4	3	70	
EM883-2508	2.5 X 8	4	3.7	50	
EM883-2510	2.5 X 10	4	3.7	50	
EM883-2512	2.5 X 12	4	3.7	50	
EM883-2514	2.5 X 14	4	3.7	50	
EM883-2516	2.5 X 16	4	3.7	60	
EM883-2518	2.5 X 18	4	3.7	60	
EM883-2520	2.5 X 20	4	3.7	60	
EM883-2525	2.5 X 25	4	3.7	70	
EM883-2530	2.5 X 30	4	3.7	80	
EM883-3008	3 X 8	6	4.5	50	
EM883-3010	3 X 10	6	4.5	50	
EM883-3012	3 X 12	6	4.5	50	
EM883-3014	3 X 14	6	4.5	50	
EM883-3016	3 X 16	6	4.5	60	
EM883-3018	3 X 18	6	4.5	60	
EM883-3020	3 X 20	6	4.5	60	
EM883-3025	3 X 25	6	4.5	70	
EM883-3030	3 X 30	6	4.5	80	
EM883-3040	3 X 40	6	4.5	100	



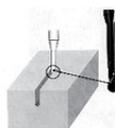
公差 DIN 7160 標準

mm

規格	0.2-0.9	1-3	3-6	6-10	10-18	18-30
刃徑 e8	0 -0.012	-0.014 -0.028	-0.020 -0.038	-0.025 -0.047	-0.032 -0.059	-0.040 -0.073
柄部 h6	0 -0.006	0 -0.006	0 -0.008	0 -0.009	0 -0.011	0 -0.013

主要特性:

長頸短刀之設計適用窄深溝之銑削, 建議切削 HRC55度以內之鋼材, 長頸短刀之結構剛性較強是塑膠模具中肋骨溝槽高速銑削之最佳選擇。





X-POWER for High Speed Cutting **TiALN-COATED**

STK® เอ็นมิลลองศา
MICROGRAIN CARBIDE TAPERED



CODE	อาศา	ขนาด	แกน	คมก้ด	ยาว	BAHT
EM888-05010	1/2°	1	4	4	50	
EM888-05015		1.5	4	5	50	
EM888-05020		2	4	6	50	
EM888-05025		2.5	4	8	50	
EM888-05030		3	6	10	50	
EM888-05040		4	6	15	50	
EM888-05050		5	6	20	50	
EM888-05060		6	8	20	60	
EM888-05080		8	10	25	75	
EM888-05100		10	12	35	90	
EM888-10010	1°	1	4	4	50	
EM888-10015		1.5	4	5	50	
EM888-10020		2	4	6	50	
EM888-10025		2.5	4	8	50	
EM888-10030		3	6	10	50	
EM888-10040		4	6	15	50	
EM888-10050		5	6	20	60	
EM888-10060		6	8	20	60	
EM888-10080		8	10	25	75	
EM888-10100		10	12	35	90	
EM888-15010	1-1/2°	1	4	4	50	
EM888-15015		1.5	4	5	50	
EM888-15020		2	4	6	50	
EM888-15025		2.5	4	8	50	
EM888-15030		3	6	10	50	
EM888-15040		4	6	15	50	
EM888-15050		5	6	20	60	
EM888-15060		6	8	20	60	
EM888-15080		8	10	25	75	
EM888-15100		10	12	35	90	
EM888-20010	2°	1	4	4	50	
EM888-20015		1.5	4	5	50	
EM888-20020		2	4	6	50	
EM888-20025		2.5	4	8	50	
EM888-20030		3	6	10	50	
EM888-20040		4	6	15	50	
EM888-20050		5	6	20	60	
EM888-20060		6	8	20	60	
EM888-20080		8	10	25	75	
EM888-20100		10	12	35	90	
EM888-25010	2-1/2°	1	4	4	50	
EM888-25015		1.5	4	5	50	
EM888-25020		2	4	6	50	
EM888-25025		2.5	4	8	50	

CODE	อาศา	ขนาด	แกน	คมก้ด	ยาว	BAHT
EM888-25030	2-1/2°	3	6	10	50	
EM888-25040		4	6	15	50	
EM888-25050		5	6	20	60	
EM888-25060		6	8	20	60	
EM888-25080		8	10	25	75	
EM888-25100		10	12	35	90	
EM888-30010	3°	1	4	4	50	
EM888-30015		1.5	4	5	50	
EM888-30020		2	4	6	50	
EM888-30025		2.5	4	8	50	
EM888-30030		3	6	10	50	
EM888-30040		4	6	15	60	
EM888-30050	5	6	20	60		
EM888-30060	6	8	20	60		
EM888-30080	8	10	25	75		
EM888-30100	10	12	35	90		
EM888-50010	5°	1	4	4	50	
EM888-50015		1.5	4	5	50	
EM888-50020		2	4	6	50	
EM888-50025		2.5	6	8	50	
EM888-50030		3	6	10	50	
EM888-50040		4	8	15	60	
EM888-50050	5	8	20	60		
EM888-50060	6	8	20	75		
EM888-50080	8	12	25	75		
EM888-50100	10	16	35	100		
EM888-70010	7°	1	4	4	50	
EM888-70015		1.5	4	5	50	
EM888-70020		2	4	6	50	
EM888-70025		2.5	6	8	50	
EM888-70030		3	6	10	50	
EM888-70040		4	8	15	60	
EM888-70050	5	10	20	70		
EM888-70060	6	12	20	75		
EM888-100010	10°	1	4	4	50	
EM888-100015		1.5	4	5	50	
EM888-100020		2	6	6	50	
EM888-100025		2.5	6	8	50	
EM888-100030		3	8	10	60	
EM888-100040		4	10	15	70	
EM888-100050	5	12	20	75		
EM888-100060		12	20	75		

公差 DIN 7160 標準

mm

規格	0.2-0.9	1-3	3-6	6-10	10-18	18-30
刃徑 e8	0 -0.012	-0.014 -0.028	-0.020 -0.038	-0.025 -0.047	-0.032 -0.059	-0.040 -0.073
柄部 h6	0 -0.006	0 -0.006	0 -0.008	0 -0.009	0 -0.011	0 -0.013

★ 7°-10°沒有庫存, 交貨期約10-15天

★ 本系列適合CNC銑床高速生產使用, 可切削鋼材硬度55° 以下, 不鏽鋼, 鈦合金, 鎳合金等難削材料。



X70-POWER FOR HIGH SPEED CUTTING & MACHINING HARDENED STEEL

★ 適用於合金鋼，耐熱鋼HRC40° ~70° 淬火鋼 高速、高精度高硬度加工

2F R เป็นมุมมน



螺旋角: 30°

CODE	D x R	D3	L2	L3	L1	D2	BAHT
EM702-0005	0.5 X R0.05	3	0.7	40	-	-	
EM702-0006	0.6 X R0.05	3	0.9	40	-	-	
EM702-0008	0.8 X R0.05	3	1.2	40	-	-	
EM702-0010	1 X R0.1	3	1.5	40	-	-	
EM702-0015	1.5 X R0.1	3	2.2	40	-	-	
EM702-0020	2 X R0.1	3	3	40	6	1.9	
EM702-0025	2.5 X R0.1	3	4	40	6	2.4	
EM702-0030	3 X R0.1	6	4	45	7	2.9	
EM702-0040	4 X R0.1	6	5	45	9	3.8	
EM702-0050	5 X R0.2	6	6	50	11	4.8	
EM702-0060	6 X R0.2	6	7	50	14	5.8	
EM702-0080	8 X R0.2	8	9	60	18	7.8	
EM702-0100	10 X R0.2	10	12	75	25	9.7	
EM702-0120	12 X R0.3	12	15	75	30	11.7	

CODE	D x R	D3	L2	L3	L1	D2	BAHT
EM703-0303	3 X R0.3	6	4	55	12	2.85	
EM703-0305	3 X R0.5	6	4	55	12	2.85	
EM703-0403	4 X R0.3	6	5	55	16	3.85	
EM703-0405	4 X R0.5	6	5	55	16	3.85	
EM703-0605	6 X R0.5	6	7	60	20	5.85	
EM703-0610	6 X R1.0	6	7	60	20	5.85	
EM703-0805	8 X R0.5	8	9	60	25	7.7	
EM703-0810	8 X R1.0	8	9	60	25	7.7	
EM703-1005	10 X R0.5	10	11	70	32	9.7	
EM703-1010	10 X R1.0	10	11	70	32	9.7	
EM703-1205	12 X R0.5	12	12	80	38	11.7	
EM703-1210	12 X R1.0	12	12	80	38	11.7	

4F R เป็นมุมมน



螺旋角: 30°

CODE	D x R	D3	L2	L3	L1	D2	BAHT
EM704-0010	1 X R0.1	3	1.5	40	-	-	
EM704-0015	1.5 X R0.1	3	2.2	40	-	-	
EM704-0020	2 X R0.1	3	3	40	6	1.9	
EM704-0025	2.5 X R0.1	3	4	40	6	2.4	
EM704-0030	3 X R0.1	6	4	45	7	2.9	
EM704-0040	4 X R0.1	6	5	45	9	3.8	
EM704-0050	5 X R0.2	6	6	50	11	4.8	
EM704-0060	6 X R0.2	6	7	50	14	5.8	
EM704-0080	8 X R0.2	8	9	60	18	7.8	
EM704-0100	10 X R0.2	10	12	75	25	9.7	
EM704-0120	12 X R0.3	12	15	75	30	11.7	
EM704-0160	16 X R0.3	16	18	90	38	15.7	

CODE	D x R	D3	L2	L3	L1	D2	BAHT
EM705-0303	3 X R0.3	6	4	55	12	2.85	
EM705-0305	3 X R0.5	6	4	55	12	2.85	
EM705-0403	4 X R0.3	6	5	55	16	3.85	
EM705-0405	4 X R0.5	6	5	55	16	3.85	
EM705-0605	6 X R0.5	6	7	60	20	5.85	
EM705-0610	6 X R1.0	6	7	60	20	5.85	
EM705-0805	8 X R0.5	8	9	60	25	7.7	
EM705-0810	8 X R1.0	8	9	60	25	7.7	
EM705-1005	10 X R0.5	10	11	70	32	9.7	
EM705-1010	10 X R1.0	10	11	70	32	9.7	
EM705-1205	12 X R0.5	12	12	80	38	11.7	
EM705-1210	12 X R1.0	12	12	80	38	11.7	

公制2刃 (短刃細頸部)



螺旋角: 30°

CODE	D	D3	L2	L3	L1	D2	BAHT
EM712-0001	0.1	4	0.2	40	-	-	
EM712-0002	0.2	4	0.4	40	-	-	
EM712-0003	0.3	4	0.6	40	-	-	
EM712-0004	0.4	4	0.8	40	-	-	
EM712-0005	0.5	4	1	40	-	-	
EM712-0006	0.6	4	1.2	40	-	-	
EM712-0007	0.7	4	1.4	40	-	-	
EM712-0008	0.8	4	1.6	40	-	-	
EM712-0009	0.9	4	2	40	-	-	
EM712-0010	1.0	6	1.5	50	3	0.95	
EM712-0015	1.5	6	1.7	50	4	1.45	
EM712-0020	2.0	6	2	50	5	1.95	
EM712-0025	2.5	6	2.5	55	6	2.4	
EM712-0030	3.0	6	3	55	8	2.85	
EM712-0040	4.0	6	4	55	10	3.85	
EM712-0050	5.0	6	5	55	13	4.85	
EM712-0060	6.0	6	6	55	15	5.85	
EM712-0080	8.0	8	8	65	20	7.7	
EM712-0100	10	10	10	75	25	9.7	
EM712-0120	12	12	12	85	28	11.7	

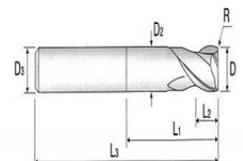
公制4刃 (短刃細頸部)



螺旋角: 30°

CODE	D	D3	L2	L3	L1	D2	BAHT
EM714-0010	1.0	6	1.5	50	3	0.95	
EM714-0015	1.5	6	1.7	50	4	1.45	
EM714-0020	2.0	6	2	50	5	1.95	
EM714-0025	2.5	6	2.5	55	6	2.4	
EM714-0030	3.0	6	3	55	8	2.85	
EM714-0040	4.0	6	4	55	10	3.85	
EM714-0050	5.0	6	5	55	13	4.85	
EM714-0060	6.0	6	6	55	15	5.85	
EM714-0080	8.0	8	8	65	20	7.7	
EM714-0100	10	10	10	75	25	9.7	
EM714-0120	12	12	12	85	28	11.7	
EM714-0160	16	16	16	90	32	15.7	
EM714-0200	20	20	20	105	40	19.7	

刃徑公差	柄徑公差
Ø6以下 0~-0.012	h6
Ø6以上 0~-0.015	



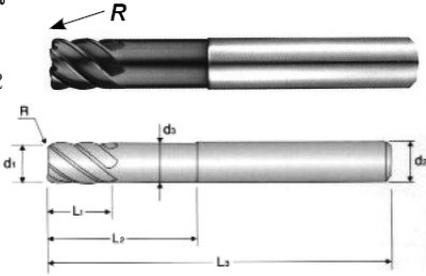


X70-POWER FOR HIGH SPEED CUTTING & MACHINING HARDENED STEEL

★ 適用於合金鋼，耐熱鋼HRC40° ~70° 淬火鋼 高速、高精度高硬度加工

45° R เป็นมุมมน

螺旋角: 45°
 刃徑公差: 0~ -0.02



CODE	d ₁	d ₂	L ₁	L ₃	L ₂	d ₃	BAHT
EM706-0060	6 X R0.5	6	6	50	14	5.7	
EM706-0080	8 X R0.5	8	8	60	24	7.65	
EM706-0100	10 X R1	10	10	70	30	9.65	
EM706-0120	12 X R1	12	12	75	30	11.6	
EM707-0605	6 X R0.5	6	13	70	-	-	
EM707-0805	8 X R0.5	8	19	90	-	-	
EM707-1005	10 X R0.5	10	22	100	-	-	
EM707-1010	10 X R1	10	22	100	-	-	
EM707-1205	12 X R0.5	12	26	110	-	-	
EM707-1210	12 X R1	12	26	110	-	-	

公制2刃圓咀 (短刃, 標準型)

螺旋角: 30°
 半徑公差: R3以下±0.005
 R3以上±0.01



CODE	D	D3	L2	L3	L1	D2	BAHT
EM718-0001	0.1 (R0.05)	4	0.2	40	-	-	
EM718-0002	0.2 (R0.1)	4	0.3	40	-	-	
EM718-0003	0.3 (R0.15)	4	0.5	40	-	-	
EM718-0004	0.4 (R0.2)	4	0.6	40	-	-	
EM718-0005	0.5 (R0.25)	4	0.7	40	-	-	
EM718-0006	0.6 (R0.3)	4	0.9	40	-	-	
EM718-0007	0.7 (R0.35)	4	1.1	40	-	-	
EM718-0008	0.8 (R0.4)	4	1.2	40	-	-	
EM718-0009	0.9 (R0.45)	4	1.4	40	-	-	
EM718-0010	1.0 (R0.5)	6	1.5	50	3	0.95	
EM718-0015	1.5 (R0.75)	6	2	50	4	1.45	
EM718-0020	2.0 (R1.0)	6	2.5	50	5	1.95	
EM718-0025	2.5 (R1.25)	6	3	50	7	2.4	
EM718-0030	3.0 (R1.5)	6	4	60	10	2.85	
EM718-0040	4.0 (R2.0)	6	5	60	10	3.85	
EM718-0050	5.0 (R2.5)	6	6	60	12	4.85	
EM718-0060	6.0 (R3.0)	6	7	60	15	5.85	
EM718-0080	8.0 (R4.0)	8	9	80	15	7.7	
EM718-0100	10 (R5.0)	10	11	80	25	9.7	
EM718-0120	12 (R6.0)	12	14	80	25	11.7	

公制2刃 (短刃, 長頭)

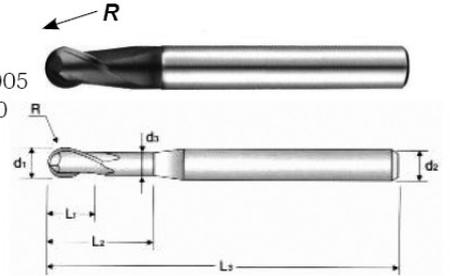
公差: 以上 ±0.01



CODE	D	D3	L2	L3	L1	D2	BAHT
EM730-0005	0.5 X R0.05	6	0.7	50	1.5	0.45	
EM730-0005A	0.5 X R0.05	6	0.7	50	3.3	0.45	
EM730-0006	0.6 X R0.05	6	0.9	50	2.0	0.55	
EM730-0006A	0.6 X R0.05	6	0.9	50	4.0	0.55	
EM730-0008	0.8 X R0.05	6	1.2	50	2.5	0.75	
EM730-0008A	0.8 X R0.05	6	1.2	50	5.5	0.75	
EM730-0010	1.0 X R0.1	6	1.5	50	3.3	0.95	
EM730-0010A	1.0 X R0.1	6	1.5	50	6.7	0.95	
EM730-0012	1.2 X R0.1	6	1.8	50	4.4	1.15	
EM730-0012A	1.2 X R0.1	6	1.8	50	8.0	1.15	
EM730-0015	1.5 X R0.15	6	2.2	50	5.0	1.45	
EM730-0015A	1.5 X R0.15	6	2.2	50	9.7	1.45	
EM730-0020	2.0 X R0.15	6	2.2	50	6.0	1.95	
EM730-0020A	2.0 X R0.15	6	2.2	50	13	1.95	

2F หัวหนคยาว

螺旋角: 30°
 半徑公差: R3以下±0.005
 R3以上±0.0



CODE	d ₁	d ₂	L ₁	L ₃	L ₂	d ₃	BAHT
EM708-0010	1 (R0.5)	4	1.0	50	2.2	0.95	
EM708-0012	1.2 (R0.6)	4	1.2	50	2.6	1.1	
EM708-0015	1.5 (R0.75)	4	1.5	50	3.0	1.4	
EM708-0020	2 (R1)	6	2	50	4.0	1.9	
EM708-0030	3 (R1.5)	6	3	60	6.0	2.9	
EM708-0040	4 (R2)	6	4	70	8.0	3.9	
EM708-0050	5 (R2.5)	6	5	80	10	4.9	
EM708-0060	6 (R3)	6	6	90	12	5.9	
EM708-0080	8 (R4)	8	8	100	16	7.9	
EM708-0100	10 (R5)	10	10	100	20	9.9	
EM708-0120	12 (R6)	12	12	110	24	11.9	

公制2刃圓咀 (短刃, 長頸)

半徑公差: R±0.005



CODE	D	D3	L2	L3	L1	D2	BAHT
EM720-0005	0.5 (R0.25)	6	0.5	50	1.5	0.45	
EM720-0005A	0.5 (R0.25)	6	0.5	50	3.3	0.45	
EM720-0006	0.6 (R0.3)	6	0.6	50	2	0.55	
EM720-0006A	0.6 (R0.3)	6	0.6	50	4	0.55	
EM720-0008	0.8 (R0.4)	6	0.8	50	2.5	0.75	
EM720-0008A	0.8 (R0.4)	6	0.8	50	5.5	0.75	
EM720-0010	1.0 (R0.5)	6	1.0	50	3.3	0.95	
EM720-0010A	1.0 (R0.5)	6	1.0	50	6.7	0.95	
EM720-0012	1.2 (R0.6)	6	1.2	50	4.4	1.15	
EM720-0012A	1.2 (R0.6)	6	1.2	50	8	1.15	
EM720-0015	1.5 (R0.75)	6	1.5	50	5	1.45	
EM720-0015A	1.5 (R0.75)	6	1.5	50	9.7	1.45	
EM720-0020	2.0 (R1.0)	6	2.0	50	6	1.95	
EM720-0020A	2.0 (R1.0)	6	2.0	50	13	1.95	

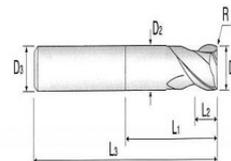
公制2刃圓咀 (短刃)

半徑公差: R±0.005



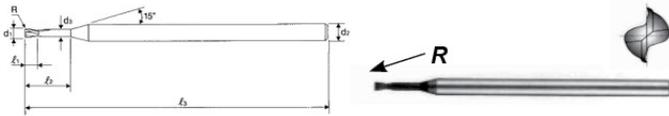
CODE	D	D3	L2	L3	L1	D2	BAHT
EM721-0004	0.4 (R0.2)	6	0.4	50			
EM721-0005	0.5 (R0.25)	6	0.5	50			
EM721-0006	0.6 (R0.3)	6	0.6	50			
EM721-0008	0.8 (R0.4)	6	0.8	50			
EM721-0010	1.0 (R0.5)	6	1.0	50			
EM721-0012	1.2 (R0.6)	6	1.2	50			
EM721-0015	1.5 (R0.75)	6	1.5	50			
EM721-0020	2.0 (R1.0)	6	2.0	50			

刃徑公差	柄徑公差
Ø6以下 0~-0.012	h6
Ø6以上 0~-0.015	





2F R เป็นมุมมน



CODE	d ₁	d ₂	l ₁	l ₂	l ₃	d ₃	BAHT
EM991-0006	0.6 X R0.05	3	0.9	3	40	0.55	
EM991-0008	0.8 X R0.05	3	1.2	4	40	0.75	
EM991-0010	1 X R0.10	3	1.5	5	40	0.95	
EM991-0010A	1 X R0.10	3	1.5	8.5	40	0.95	
EM991-0012	1.2 X R0.10	3	1.8	6	50	1.15	
EM991-0015	1.5 X R0.15	3	2.2	7.5	50	1.40	
EM991-0015A	1.5 X R0.15	3	2.2	12	50	1.40	
EM991-0020	2.0 X R0.15	3	2.2	10	60	1.90	
EM991-0020A	2.0 X R0.15	3	2.2	16	60	1.90	

3F R เป็นมุมมน



CODE	d ₁	d ₂	l ₁	l ₃	BAHT
EM992-0020	2 X R0.15	3	6	40	
EM992-0030	3 X R0.15	3	12	40	
EM992-0040	4 X R0.20	4	14	50	
EM992-0050	5 X R0.30	5	16	50	
EM992-0060	6 X R0.30	6	20	65	
EM992-0080	8 X R0.50	8	20	65	
EM992-0100	10 X R0.50	10	25	75	
EM992-0120	12 X R0.50	12	25	75	

3F R เป็นมุมมน
รู้นยาว



CODE	d ₁	d ₂	l ₁	l ₃	BAHT
EM993-0020	2 X R0.15	3	9	60	
EM993-0030	3 X R0.15	3	30	60	
EM993-0040	4 X R0.20	4	30	60	
EM993-0050	5 X R0.30	5	35	70	
EM993-0060	6 X R0.30	6	40	100	
EM993-0080	8 X R0.50	8	40	100	
EM993-0100	10 X R0.50	10	40	100	
EM993-0120	12 X R0.50	12	45	100	

3F



CODE	d ₁	d ₂	l ₁	l ₃	BAHT
EM995-0020	2	3	6	40	
EM995-0030	3	3	12	40	
EM995-0040	4	4	14	50	
EM995-0050	5	5	16	50	
EM995-0060	6	6	20	65	
EM995-0080	8	8	20	65	
EM995-0100	10	10	25	75	
EM995-0120	12	12	25	75	

3F รู้นยาว



CODE	d ₁	d ₂	l ₁	l ₃	BAHT
EM996-0020	2	3	9	60	
EM996-0030	3	3	30	60	
EM996-0040	4	4	30	60	
EM996-0050	5	5	35	70	
EM996-0060	6	6	40	100	
EM996-0080	8	8	40	100	
EM996-0100	10	10	40	100	
EM996-0120	12	12	45	100	

2F หัวมนคอยาว



CODE	d ₁	d ₂	l ₁	l ₂	l ₃	d ₃	BAHT
EM981-0006	0.6 (R0.3)	3	0.6	3	40	0.55	
EM981-0008	0.8 (R0.4)	3	0.8	4	40	0.75	
EM981-0010	1.0 (R0.5)	3	1	5	40	0.95	
EM981-0010A	1.0 (R0.5)	3	1	8.5	40	0.95	
EM981-0012	1.2 (R0.6)	3	1.2	6	50	1.15	
EM981-0015	1.5 (R0.75)	3	1.5	7.5	50	1.40	
EM981-0015A	1.5 (R0.75)	3	1.5	12	50	1.40	
EM981-0020	2 (R1)	3	2.2	10	60	1.90	
EM981-0020A	2 (R1)	3	2.2	16	60	1.90	

2F หัวมนคอยาว



CODE	d ₁	d ₂	l ₁	l ₂	l ₃	d ₃	BAHT
EM982-0020	2 (R1)	6	3	5	60	1.9	
EM982-0025	2.5 (R1.25)	6	4	6	60	2.4	
EM982-0030	3 (R1.5)	6	4.5	6.5	60	2.8	
EM982-0035	3.5 (R1.75)	6	5	7	65	3.2	
EM982-0040	4 (R2)	6	6	8	65	3.7	
EM982-0050	5 (R2.5)	6	7.5	10	65	4.6	
EM982-0060	6 (R3)	6	9	12	75	5.6	
EM982-0080	8 (R4)	8	12	25	75	7.4	
EM982-0100	10 (R5)	10	15	30	80	9.4	
EM982-0120	12 (R6)	12	18	36	90	11.4	

2F หัวมนรู้นยาว



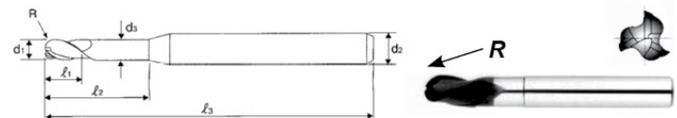
CODE	d ₁	d ₂	l ₁	l ₂	l ₃	d ₃	BAHT
EM983-0020	2 (R1)	4	10	20	80	1.95	
EM983-0030	3 (R1.5)	4	15	25	80	2.9	
EM983-0040	4 (R2)	4	20	30	80	3.9	
EM983-0050	5 (R2.5)	6	30	50	100	4.9	
EM983-0060	6 (R3)	6	30	50	100	5.5	
EM983-0080	8 (R4)	8	40	60	110	7.5	
EM983-0100	10 (R5)	10	50	70	120	9.5	
EM983-0120	12 (R6)	12	55	75	130	11.5	

2F หัวมนรู้นยาวพิเศษ



CODE	d ₁	d ₂	l ₁	l ₂	l ₃	d ₃	BAHT
EM984-0020	2 (R1)	4	10	20	100	1.95	
EM984-0030	3 (R1.5)	4	15	25	100	2.9	
EM984-0040	4 (R2)	4	20	30	100	3.9	
EM984-0050	5 (R2.5)	6	30	50	120	4.9	
EM984-0060	6 (R3)	6	30	50	150	5.5	
EM984-0080	8 (R4)	8	40	60	150	7.5	

3F หัวมน



CODE	d ₁	d ₂	l ₁	l ₂	l ₃	d ₃	BAHT
EM985-0020	2 (R1)	6	3	5	60	1.9	
EM985-0025	2.5 (R1.25)	6	4	6	60	2.4	
EM985-0030	3 (R1.5)	6	4.5	6.5	60	2.8	
EM985-0035	3.5 (R1.75)	6	5	7	65	3.2	
EM985-0040	4 (R2)	6	6	8	65	3.7	
EM985-0050	5 (R2.5)	6	7.5	10	65	4.6	
EM985-0060	6 (R3)	6	9	12	75	5.6	
EM985-0080	8 (R4)	8	12	25	75	7.4	
EM985-0100	10 (R5)	10	15	30	80	9.4	
EM985-0120	12 (R6)	12	18	36	90	11.4	



CARBIDE 2F FOR ALUMINUM

螺旋角度 : 45°



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM5522-010A	1	4	3	50	
EM5522-015A	1.5	4	5	50	
EM5522-020A	2	4	6	50	
EM5522-025A	2.5	4	8	50	
EM5522-030A	3	4	11	50	
EM5522-040A	4	4	13	50	
EM5522-010	1	6	3	40	
EM5522-015	1.5	6	5	40	
EM5522-020	2	6	6	40	
EM5522-025	2.5	6	8	40	
EM5522-030	3	6	11	50	
EM5522-040	4	6	13	50	
EM5522-050	5	6	17	55	
EM5522-060	6	6	17	55	
EM5522-080	8	8	22	65	
EM5522-100	10	10	27	70	
EM5522-120	12	12	32	80	
EM5522-140	14	14	37	85	
EM5522-160	16	16	42	100	
EM5522-180	18	16	48	110	
EM5522-200	20	20	48	110	

CARBIDE 3F FOR ALUMINUM

螺旋角 : 40°



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM5583-030	3	6	8	50	
EM5583-040	4	6	11	50	
EM5583-050	5	6	13	50	
EM5583-060	6	6	16	50	
EM5583-080	8	8	20	60	
EM5583-100	10	10	25	72	
EM5583-120	12	12	30	75	

2 F (90°) CARBIDE DRILL MILLS



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM5400-030	3	4	6	50	
EM5400-040	4	5	8	50	
EM5400-050	5	6	10	50	
EM5400-060	6	8	12	60	
EM5400-080	8	10	16	70	
EM5400-100	10	12	18	70	
EM5400-120	12	12	20	70	
EM5400-160	16	16	26	80	
EM5400-200	20	20	32	100	

3 F (90°) CARBIDE DRILL MILLS

TIALN-COATED

塗層系列



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM5401-030	3	4	6	50	
EM5401-040	4	5	8	50	
EM5401-050	5	6	10	50	
EM5401-060	6	8	12	60	
EM5401-080	8	10	16	70	
EM5401-100	10	12	18	70	
EM5401-120	12	12	20	70	
EM5401-160	16	16	26	80	
EM5401-200	20	20	32	100	

CARBIDE 3F FOR ALUMINUM

CARBIDE 3FLUTE

螺旋角度 : 45°



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM5523-010A	1	4	3	50	
EM5523-015A	1.5	4	5	50	
EM5523-020A	2	4	6	50	
EM5523-025A	2.5	4	8	50	
EM5523-030A	3	4	11	50	
EM5523-040A	4	4	13	50	
EM5523-010	1	6	3	50	
EM5523-015	1.5	6	5	50	
EM5523-020	2	6	6	50	
EM5523-025	2.5	6	8	50	
EM5523-030	3	6	11	50	
EM5523-040	4	6	13	50	
EM5523-050	5	6	17	55	
EM5523-060	6	6	17	55	
EM5523-080	8	8	22	65	
EM5523-100	10	10	27	70	
EM5523-120	12	12	32	80	
EM5523-140	14	14	37	85	
EM5523-160	16	16	42	100	
EM5523-180	18	16	48	110	
EM5523-200	20	20	48	110	

CARBIDE 3F FOR ALUMINUM

CARBIDE 3FLUTE LONG

螺旋角度 : 45°



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM5533-030	3	6	20	70	
EM5533-040	4	6	20	70	
EM5533-050	5	6	25	70	
EM5533-060	6	6	30	75	
EM5533-080	8	8	35	85	
EM5533-100	10	10	35	90	
EM5533-120	12	12	45	100	
EM5533-160	16	16	55	120	
EM5533-200	20	20	65	140	

CARBIDE 3F FOR ALUMINUM

CARBIDE 3FLUTE EXTRA LONG

螺旋角度 : 45°



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM5543-030	3	6	25	75	
EM5543-040	4	6	30	80	
EM5543-050	5	6	35	80	
EM5543-060	6	6	42	90	
EM5543-080	8	8	50	100	
EM5543-100	10	10	55	110	
EM5543-120	12	12	65	120	
EM5543-160	16	16	75	150	
EM5543-200	20	20	85	160	





ALTiN-COATED

มุมเลื่อย : 30°



2F



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM-C302-0002	0.2	4	0.4	50	
EM-C302-0003	0.3	4	0.6	50	
EM-C302-0004	0.4	4	0.8	50	
EM-C302-0005	0.5	4	1	50	
EM-C302-0006	0.6	4	1.2	50	
EM-C302-0007	0.7	4	1.4	50	
EM-C302-0008	0.8	4	1.6	50	
EM-C302-0009	0.9	4	1.8	50	
EM-C302-0010	1	4	3	50	
EM-C302-0015	1.5	4	4	50	
EM-C302-0020	2	4	6	50	
EM-C302-0025	2.5	4	8	50	
EM-C302-0030A	3	4	8	50	
EM-C302-0035A	3.5	4	10	50	
EM-C302-0040A	4	4	11	50	
EM-C302-0030	3	6	8	50	
EM-C302-0040	4	6	11	50	
EM-C302-0045	4.5	6	11	50	
EM-C302-0050	5	6	13	50	
EM-C302-0055	5.5	6	13	50	
EM-C302-0060	6	6	16	50	
EM-C302-0065	6.5	8	16	60	
EM-C302-0070	7	8	20	60	
EM-C302-0075	7.5	8	20	60	
EM-C302-0080	8	8	20	60	
EM-C302-0085	8.5	10	20	75	
EM-C302-0090	9	10	20	75	
EM-C302-0095	9.5	10	22	75	
EM-C302-0100	10	10	25	75	
EM-C302-0110	11	12	30	75	
EM-C302-0120	12	12	32	75	
EM-C302-0140	14	16	40	100	
EM-C302-0160	16	16	40	100	
EM-C302-0180	18	20	40	100	
EM-C302-0200	20	20	45	100	

4F



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM-C304-0010	1	4	3	50	
EM-C304-0011	1.1	4	4	50	
EM-C304-0012	1.2	4	4	50	
EM-C304-0013	1.3	4	4	50	
EM-C304-0014	1.4	4	4	50	
EM-C304-0015	1.5	4	4	50	
EM-C304-0016	1.6	4	5	50	
EM-C304-0018	1.8	4	5	50	
EM-C304-0020	2	4	6	50	
EM-C304-0025	2.5	4	8	50	
EM-C304-0030A	3	4	8	50	
EM-C304-0035A	3.5	4	10	50	
EM-C304-0040A	4	4	11	50	
EM-C304-0030	3	6	8	50	
EM-C304-0040	4	6	11	50	
EM-C304-0045	4.5	6	11	50	
EM-C304-0050	5	6	13	50	
EM-C304-0055	5.5	6	13	50	
EM-C304-0060	6	6	16	50	
EM-C304-0065	6.5	8	16	60	
EM-C304-0070	7	8	20	60	
EM-C304-0075	7.5	8	20	60	
EM-C304-0080	8	8	20	60	
EM-C304-0085	8.5	10	20	75	
EM-C304-0090	9	10	20	75	
EM-C304-0095	9.5	10	22	75	
EM-C304-0100	10	10	25	75	
EM-C304-0110	11	12	30	75	
EM-C304-0120	12	12	32	75	
EM-C304-0140	14	16	40	100	
EM-C304-0160	16	16	40	100	
EM-C304-0180	18	20	40	100	
EM-C304-0200	20	20	45	100	

2F Long



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM-C312-0020	2	4	10	50	
EM-C312-0030A	3	4	15	60	
EM-C312-0040A	4	4	20	60	
EM-C312-0030	3	6	15	60	
EM-C312-0040	4	6	20	60	
EM-C312-0050	5	6	25	75	
EM-C312-0060	6	6	30	75	
EM-C312-0080	8	8	35	100	
EM-C312-0100	10	10	45	100	
EM-C312-0120	12	12	45	100	
EM-C312-0140	14	14	70	150	
EM-C312-0160	16	16	70	150	
EM-C312-0180	18	20	75	150	
EM-C312-0200	20	20	75	150	

2F หัวมน



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM-C362-0002	0.2(R0.1)	4	0.4	50	
EM-C362-0003	0.3(R0.15)	4	0.6	50	
EM-C362-0004	0.4(R0.2)	4	0.8	50	
EM-C362-0005	0.5(R0.25)	4	1	50	
EM-C362-0006	0.6(R0.3)	4	1.2	50	
EM-C362-0007	0.7(R0.35)	4	1.4	50	
EM-C362-0008	0.8(R0.4)	4	1.6	50	
EM-C362-0009	0.9(R0.45)	4	1.8	50	
EM-C362-0010	1(R0.5)	4	2	50	
EM-C362-0015	1.5(R0.75)	4	4	50	
EM-C362-0020	2(R1)	4	5	50	
EM-C362-0025	2.5(R1.25)	4	6	50	
EM-C362-0030A	3(R1.5)	4	6	50	
EM-C362-0040A	4(R2)	4	8	50	
EM-C362-0030	3(R1.5)	6	6	50	
EM-C362-0040	4(R2)	6	8	50	
EM-C362-0050	5(R2.5)	6	10	50	
EM-C362-0060	6(R3)	6	12	50	
EM-C362-0070	7(R3.5)	8	14	60	
EM-C362-0080	8(R4)	8	14	60	
EM-C362-0090	9(R4.5)	10	18	75	
EM-C362-0100	10(R5)	10	20	75	
EM-C362-0120	12(R6)	12	24	75	
EM-C362-0160	16(R8)	16	32	100	
EM-C362-0200	20(R10)	20	40	100	

4F Long



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM-C314-0020	2	4	10	50	
EM-C314-0030A	3	4	15	60	
EM-C314-0040A	4	4	20	60	
EM-C314-0030	3	6	15	60	
EM-C314-0040	4	6	20	60	
EM-C314-0050	5	6	25	75	
EM-C314-0060	6	6	30	75	
EM-C314-0080	8	8	35	100	
EM-C314-0100	10	10	45	100	
EM-C314-0120	12	12	45	100	
EM-C314-0140	14	14	70	150	
EM-C314-0160	16	16	70	150	
EM-C314-0180	18	18	75	150	
EM-C314-0200	20	20	75	150	

★ เหมาะกับโลหะแข็ง HRC50° (HARDERNE STEELS,ALLOY STEELS
 CARBON STEELS,TOOL STEELS,STAINLESS STEELS)



2F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EMC372-0010	1	4	3	50	
EMC372-0015	1.5	4	4	50	
EMC372-0020	2	4	6	50	
EMC372-0025	2.5	4	8	50	
EMC372-0030A	3	4	8	50	
EMC372-0040A	4	4	11	50	
EMC372-0050	5	6	13	50	
EMC372-0060	6	6	16	50	
EMC372-0070	7	8	20	60	
EMC372-0080	8	8	20	60	
EMC372-0090	9	10	20	75	
EMC372-0100	10	10	25	75	
EMC372-0120	12	12	32	75	
EMC372-0140	14	16	40	100	
EMC372-0160	16	16	40	100	
EMC372-0200	20	20	45	100	

4F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EMC374-0010	1	4	3	50	
EMC374-0015	1.5	4	4	50	
EMC374-0020	2	4	6	50	
EMC374-0025	2.5	4	8	50	
EMC374-0030A	3	4	8	50	
EMC374-0040A	4	4	11	50	
EMC374-0050	5	6	13	50	
EMC374-0060	6	6	16	50	
EMC374-0070	7	8	20	60	
EMC374-0080	8	8	20	60	
EMC374-0090	9	10	20	75	
EMC374-0100	10	10	25	75	
EMC374-0120	12	12	32	75	
EMC374-0140	14	16	40	100	
EMC374-0160	16	16	40	100	
EMC374-0200	20	20	45	100	

4F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EMC378-0020	2	4	10	50	
EMC378-0030A	3	4	15	60	
EMC378-0040A	4	4	20	60	
EMC378-0050	5	6	25	75	
EMC378-0060	6	6	30	75	
EMC378-0080	8	8	35	100	
EMC378-0100	10	10	45	100	
EMC378-0120	12	12	45	100	
EMC378-0160	16	16	70	150	
EMC378-0200	20	20	75	150	

4F หัวมน



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EMC388-0010	1(R0.5)	4	2.5	50	
EMC388-0015	1.5(R0.75)	4	4	50	
EMC388-0020	2(R1)	6	5	50	
EMC388-0025	2.5(R1.25)	6	6	60	
EMC388-0030	3(R1.5)	6	8	60	
EMC388-0040	4(R2)	6	8	70	
EMC388-0050	5(R2.5)	6	10	80	
EMC388-0060	6(R3)	6	12	90	
EMC388-0070	7(R3.5)	8	14	90	
EMC388-0080	8(R4)	8	14	100	
EMC388-0090	9(R4.5)	10	18	100	
EMC388-0100	10(R5)	10	18	100	
EMC388-0120	12(R6)	12	22	110	
EMC388-0140	14(R7)	14	26	110	
EMC388-0160	16(R8)	16	30	140	
EMC388-0200	20(R10)	20	38	160	

2F หัวมน



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EMC382-0010	1(R0.5)	4	2	50	
EMC382-0015	1.5(R0.75)	4	4	50	
EMC382-0020	2(R1)	4	5	50	
EMC382-0025	2.5(R1.25)	4	6	50	
EMC382-0030A	3(R1.5)	4	6	50	
EMC382-0040A	4(R2)	4	8	50	
EMC382-0050	5(R2.5)	6	10	50	
EMC382-0060	6(R3)	6	12	50	
EMC382-0080	8(R4)	8	14	60	
EMC382-0100	10(R5)	10	20	75	
EMC382-0120	12(R6)	12	24	75	
EMC382-0160	16(R8)	16	32	100	
EMC382-0200	20(R10)	20	40	100	

★ เหมาะกับโลหะแข็ง HRC65°(HARDERNE STEELS,ALLOY STEELS
 CARBON STEELS,TOOL STEELS,STAINLESS STEELS)



ALTiN-COATED

มุมเลี้ยว : 30°



2F มุม R



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EMC332-0302	3 X R0.2	6	10	70	
EMC332-0303	3 X R0.3	6	10	70	
EMC332-0305	3 X R0.5	6	10	70	
EMC332-0402	4 X R0.2	6	12	70	
EMC332-0403	4 X R0.3	6	12	70	
EMC332-0405	4 X R0.5	6	12	70	
EMC332-0502	5 X R0.2	6	15	80	
EMC332-0503	5 X R0.3	6	15	80	
EMC332-0505	5 X R0.5	6	15	80	
EMC332-0602	6 X R0.2	6	15	90	
EMC332-0603	6 X R0.3	6	15	90	
EMC332-0605	6 X R0.5	6	15	90	
EMC332-0610	6 X R1.0	6	15	90	
EMC332-0803	8 X R0.3	8	20	100	
EMC332-0805	8 X R0.5	8	20	100	
EMC332-0810	8 X R1.0	8	20	100	
EMC332-0815	8 X R1.5	8	20	100	
EMC332-1003	10 X R0.3	10	25	100	
EMC332-1005	10 X R0.5	10	25	100	
EMC332-1010	10 X R1.0	10	25	100	
EMC332-1015	10 X R1.5	10	25	100	
EMC332-1203	12 X R0.3	12	30	100	
EMC332-1205	12 X R0.5	12	30	100	
EMC332-1210	12 X R1.0	12	30	100	
EMC332-1215	12 X R1.5	12	30	100	
EMC332-1220	12 X R2.0	12	30	100	

4F มุม R



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EMC334-0302	3 X R0.2	6	10	70	
EMC334-0303	3 X R0.3	6	10	70	
EMC334-0305	3 X R0.5	6	10	70	
EMC334-0402	4 X R0.2	6	12	70	
EMC334-0403	4 X R0.3	6	12	70	
EMC334-0405	4 X R0.5	6	12	70	
EMC334-0502	5 X R0.2	6	15	80	
EMC334-0503	5 X R0.3	6	15	80	
EMC334-0505	5 X R0.5	6	15	80	
EMC334-0602	6 X R0.2	6	15	90	
EMC334-0603	6 X R0.3	6	15	90	
EMC334-0605	6 X R0.5	6	15	90	
EMC334-0610	6 X R1.0	6	15	90	
EMC334-0803	8 X R0.3	8	20	100	
EMC334-0805	8 X R0.5	8	20	100	
EMC334-0810	8 X R1.0	8	20	100	
EMC334-0815	8 X R1.5	8	20	100	
EMC334-1003	10 X R0.3	10	25	100	
EMC334-1005	10 X R0.5	10	25	100	
EMC334-1010	10 X R1.0	10	25	100	
EMC334-1015	10 X R1.5	10	25	100	
EMC334-1020	10 X R2.0	10	25	100	
EMC334-1205	12 X R0.5	12	30	100	
EMC334-1210	12 X R1.0	12	30	100	
EMC334-1215	12 X R1.5	12	30	100	
EMC334-1220	12 X R2.0	12	30	100	

2F มุม R



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EMC342-0202	2 X R0.2	4	4	50	
EMC342-0203	2 X R0.3	4	4	50	
EMC342-0252	2.5 X R0.2	4	5	50	
EMC342-0253	2.5 X R0.3	4	5	50	
EMC342-0302	3 X R0.2	4	6	50	
EMC342-0303	3 X R0.3	4	6	50	
EMC342-0305	3 X R0.5	4	6	50	
EMC342-0402	4 X R0.2	4	8	50	
EMC342-0403	4 X R0.3	4	8	50	
EMC342-0405	4 X R0.5	4	8	50	
EMC342-0502	5 X R0.2	6	10	50	
EMC342-0503	5 X R0.3	6	10	50	
EMC342-0505	5 X R0.5	6	10	50	
EMC342-0602	6 X R0.2	6	12	50	
EMC342-0603	6 X R0.3	6	12	50	
EMC342-0605	6 X R0.5	6	12	50	
EMC342-0610	6 X R1.0	6	12	50	
EMC342-0803	8 X R0.3	8	16	60	
EMC342-0805	8 X R0.5	8	16	60	
EMC342-0810	8 X R1.0	8	16	60	
EMC342-0815	8 X R1.5	8	16	60	
EMC342-0820	8 X R2.0	8	16	60	
EMC342-1003	10 X R0.3	10	20	75	
EMC342-1005	10 X R0.5	10	20	75	
EMC342-1010	10 X R1.0	10	20	75	
EMC342-1015	10 X R1.5	10	20	75	
EMC342-1020	10 X R2.0	10	20	75	
EMC342-1205	12 X R0.5	12	24	75	
EMC342-1210	12 X R1.0	12	24	75	
EMC342-1215	12 X R1.5	12	24	75	
EMC342-1220	12 X R2.0	12	24	75	

4F มุม R

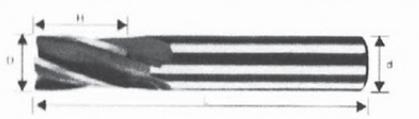


CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EMC344-0202	2 X R0.2	4	4	50	
EMC344-0203	2 X R0.3	4	4	50	
EMC344-0252	2.5 X R0.2	4	5	50	
EMC344-0253	2.5 X R0.3	4	5	50	
EMC344-0302	3 X R0.2	4	6	50	
EMC344-0303	3 X R0.3	4	6	50	
EMC344-0305	3 X R0.5	4	6	50	
EMC344-0402	4 X R0.2	4	8	50	
EMC344-0403	4 X R0.3	4	8	50	
EMC344-0405	4 X R0.5	4	8	50	
EMC344-0502	5 X R0.2	6	10	50	
EMC344-0503	5 X R0.3	6	10	50	
EMC344-0505	5 X R0.5	6	10	50	
EMC344-0602	6 X R0.2	6	12	50	
EMC344-0603	6 X R0.3	6	12	50	
EMC344-0605	6 X R0.5	6	12	50	
EMC344-0610	6 X R1.0	6	12	50	
EMC344-0803	8 X R0.3	8	16	60	
EMC344-0805	8 X R0.5	8	16	60	
EMC344-0810	8 X R1.0	8	16	60	
EMC344-0815	8 X R1.5	8	16	60	
EMC344-0820	8 X R2.0	8	16	60	
EMC344-1003	10 X R0.3	10	20	75	
EMC344-1005	10 X R0.5	10	20	75	
EMC344-1010	10 X R1.0	10	20	75	
EMC344-1015	10 X R1.5	10	20	75	
EMC344-1020	10 X R2.0	10	20	75	
EMC344-1205	12 X R0.5	12	24	75	
EMC344-1210	12 X R1.0	12	24	75	
EMC344-1215	12 X R1.5	12	24	75	
EMC344-1220	12 X R2.0	12	24	75	



SWH4 (Carbide Flutes)

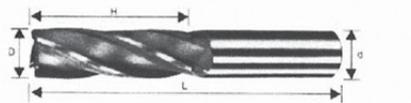
รุ่นเชื่อม ฟันคาร์ไบด์ 4 ฟัน



CODE	Size (mm)				
	D ^{+0.03} / ₊₀	H	d(h7)	L	T
SWH4-12x30H	12	30	12	80	4
14x35H	14	35	16	90	4
16x40H	16	40	16	95	4
18x40H	18	40	20	100	4
20x45H	20	45	20	110	4
25x50H	25	50	25	120	4
30x55H	30	55	25	125	4
32x60H	32	60	32	145	4
35x65H	35	65	32	150	4
40x65H	40	65	32	150	4
45x70H	45	70	32	160	4
50x70H	50	70	32	160	4

SWHL4 (Carbide Flutes)

รุ่นเชื่อม ฟันคาร์ไบด์ 4 ฟัน

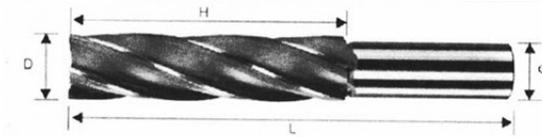


CODE	Size (mm)				
	D ^{+0.03} / ₊₀	H	d(h7)	L	T
SWHL4-12x40H	12	40	12	90	4
14x45H	14	45	16	105	4
16x50H	16	50	16	120	4
18x60H	18	60	20	120	4
20x75H	20	75	20	135	4
25x75H	25	85	25	175	4
30x100H	30	100	25	195	4
32x105H	32	105	32	205	4
35x105H	35	105	32	205	4
40x105H	40	105	32	205	4
45x105H	45	105	32	205	4
50x125H	50	125	32	240	4



SWHL4 (Carbide Flutes)

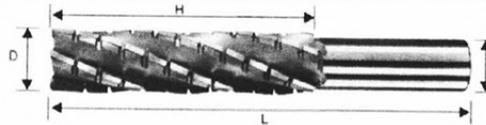
รุ่นเชื่อม ฟันคาร์ไบด์ 4 ฟัน



CODE	Size (mm)				
	D $+0.03$ $+0$	H	d(h7)	L	T
SWHL4-20x100H	20	100	20	180	4
25x120H	25	120	25	210	4
30x120H	30	120	25	210	4
32x120H	32	120	32	210	4
35x150H	35	150	32	250	4
40x150H	40	150	32	250	4
40x200H	40	200	32	305	4
45x150H	45	150	32	250	4
45x200H	45	200	32	305	4
50x150H	50	150	32	250	4
50x200H	50	200	32	305	4

SWHR4 (Carbide Flutes)

รุ่นเชื่อม ฟันคาร์ไบด์ กัดหยาบ

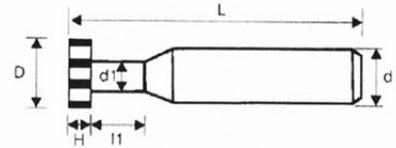


CODE	Size (mm)				
	D $+0.05$ $+0$	H	d(h7)	L	T
SWHR4-30x60H	30	60	32	140	4
30x80H	30	80	32	160	4
30x105H	30	105	32	205	4
32x60H	32	60	32	140	4
32x80H	32	80	32	160	4
32x105H	32	105	32	205	4
35x60H	35	60	32	140	4
35x80H	35	80	32	160	4
35x105H	35	105	32	205	4
40x60H	40	60	32	140	4
40x80H	40	80	32	160	4
40x105H	40	105	32	205	4
50x105H	50	105	42	205	4
50x125H	50	125	42	225	4
50x150H	50	150	42	250	4
50x205H	50	205	42	305	4



SWHT (Carbide Flutes)

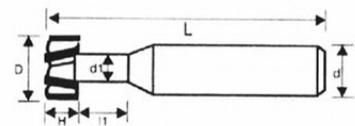
รุ่นเชื่อม ฟันคาร์ไบด์



CODE	Size (mm)						
	D	H	d ₁	l ₁	d(h7)	L	T
SWHT-16x(3~12)H	16	3/4/5/6/8/10/12	7	15	12	100	4
20x(3~12)H	20	3/4/5/6/8/10/12	10	15	12	100	4
25x(3~12)H	25	3/4/5/6/8/10/12	13	15	16	120	6
30x(3~12)H	30	3/4/5/6/8/10/12	15	15	16	120	6
32x(3~12)H	32	3/4/5/6/8/10/12	15	15	16	120	6
35x(3~12)H	35	3/4/5/6/8/10/12	15	15	16	120	6
40x(3~12)H	40	3/4/5/6/8/10/12	21	15	25	140	6
45x(3~12)H	45	3/4/5/6/8/10/12	23	15	25	140	6
50x(3~12)H	50	3/4/5/6/8/10/12	24.5	15	25	140	8
60x(3~12)H	60	3/4/5/6/8/10/12	30	20	32	140	10

SWHTS (Carbide Flutes)

รุ่นเชื่อม ฟันคาร์ไบด์

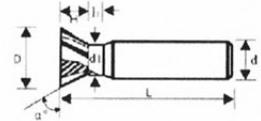


CODE	Size (mm)						
	D	H	d ₁	l ₁	d(h7)	L	T
SWHTS-16x(6~12)H	16	6/8/10/12	7	15	12	100	4
20x(6~12)H	20	6/8/10/12	10	15	12	100	4
25x(6~12)H	25	6/8/10/12	13	15	16	120	6
30x(6~12)H	30	6/8/10/12	15	15	16	120	6
32x(6~12)H	32	6/8/10/12	15	15	16	120	6
35x(6~12)H	35	6/8/10/12	15	15	16	120	6
40x(6~12)H	40	6/8/10/12	21	15	25	140	6
45x(6~12)H	45	6/8/10/12	23	15	25	140	6
50x(6~12)H	50	8/10/12	24.5	15	25	140	8
60x(6~12)H	60	8/10/12	30	20	32	140	10



SWHD 45° (Carbide Flutes)

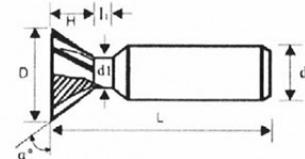
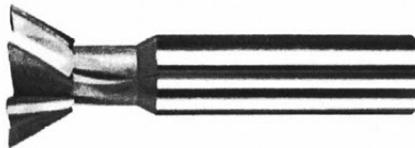
รุ่นเชื่อม ฟันคาร์ไบด์ 45°



CODE	Size (mm)							
	D	H	d ₁	l ₁	α°	d(h7)	L	T
SWHD45°~20	20	6	9	15	45°	12	95	4
~25	25	7	10	15	45°	12	95	4
~30	30	8	11	15	45°	16	10	4
~35	35	10	13	15	45°	16	10	4
~40	40	12	13	15	45°	20	10	6
~45	45	13	17	15	45°	20	10	6
~50	50	15	17	15	45°	25	105	6
~60	60	18	21	15	45°	25	110	6
~65	65	20	21	20	45°	25	110	6

SWHD 60° (Carbide Flutes)

รุ่นเชื่อม ฟันคาร์ไบด์ 60°



CODE	Size (mm)							
	D	H	d ₁	l ₁	α°	d(h7)	L	T
SWHD60°~20	20	8	9	15	60°	12	90	4
25	25	11	10	15	60°	12	95	4
30	30	14	11	15	60°	20	100	4
35	35	15	15	15	60°	20	100	6
40	40	17	17	20	60°	20	105	6
45	45	20	19	20	60°	20	105	6
50	50	22	22	20	60°	25	110	6
55	55	26	22	20	60°	25	110	6
60	60	28	25	20	60°	32	120	6
65	65	32	25	20	60°	32	120	6



CARBIDE CENTER DRILLS

DIN33A 標準 (60°)

UNIT: mm



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
TD238-0050	0.5	3	0.8	38	
TD238-0080	0.8	3	1.1	38	
TD238-0100	1.0	3	1.3	38	
TD238-0125	1.25	3	1.6	38	
TD238-0160	1.6	4	2.0	38	
TD238-0200	2.0	5	2.5	50	
TD238-0250	2.5	6	3.1	50	
TD238-0315	3.15	8	3.9	60	
TD238-0400	4.0	10	5.0	66	
TD238-0500	5.0	12	6.3	73	
TD236-0500	5.0	12.5	6.9	63	

CARBIDE CENTER DRILLS

BS328 標準 (60°)

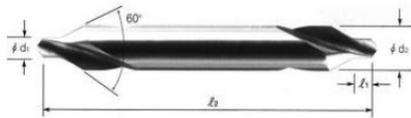
UNIT: INCH



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
TD236-I003	3/64	1/8	5/64	1-1/2	
TD236-I004	1/16	3/16	3/32	1-3/4	
TD236-I006	3/32	1/4	5/32	2"	
TD236-I012	3/16	7/16	9/32	2-1/2	

STK

HSS-EX CENTER DRILLS FORM A (60°)

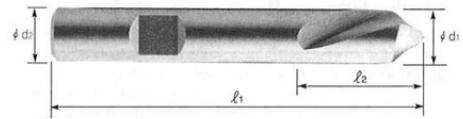


CODE	ขนาด	แกน	คมกัด	BAHT
TD910-0010	1	4	35	
TD910-0015	1.5	5	40	
TD910-0020	2	6	45	
TD910-0025	2.5	7.7	50	
TD910-0030	3	7.7	55	
TD910-0040	4	10	65	
TD910-0050	5	11	78	
TD910-I003	3/64(1#)	1/8	1-1/2"	
TD910-I004	1/16(2#)	3/16	1-3/4"	
TD910-I006	3/32(3#)	1/4	2"	
TD910-I008	1/8(4#)	5/16	2-1/4"	
TD910-I012	3/16(5#)	7/16	2-1/2"	

CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
TD912-0010	1	4	1.2	100	
TD912-0015	1.5	5	1.9	100	
TD912-0020	2	6	2.5	100	
TD912-0025	2.5	8	3.1	100	
TD912-0030	3	10	3.7	100	
TD912-0040	4	10	5.0	100	
TD912-0050	5	12	6.3	100	

鎢鋼 NC 定點鑽咀 (90°)

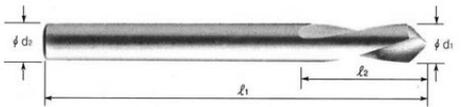
CARBIDE NC SPOTTING DRILLS



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
TD5306-030	3	3	8	35	
TD5306-040	4	4	10	40	
TD5306-050	5	5	13	50	
TD5306-060	6	6	16	50	
TD5306-080	8	8	23	60	
TD5306-100	10	10	24	70	
TD5306-120	12	12	25	70	
TD5306-160	16	16	30	80	
TD5306-200	20	20	35	100	

鈷高速鋼NC定點鑽咀

HSS-C08 NC SPOTTING DRILLS



90° องศา

CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
TD2306-030	3	3	10	50	
TD2306-040	4	4	12	52	
TD2306-050	5	5	15	60	
TD2306-060	6	6	20	66	
TD2306-080	8	8	25	79	
TD2306-100	10	10	25	89	
TD2306-120	12	12	30	102	
TD2306-140	14	14	35	115	
TD2306-160	16	16	35	115	
TD2306-180	18	18	40	130	
TD2306-200	20	20	40	131	

120° องศา

CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
TD2307-030	3	3	10	50	
TD2307-040	4	4	12	52	
TD2307-050	5	5	15	60	
TD2307-060	6	6	20	66	
TD2307-080	8	8	25	79	
TD2307-100	10	10	25	89	
TD2307-120	12	12	30	102	
TD2307-160	16	16	35	115	
TD2307-200	20	20	40	131	

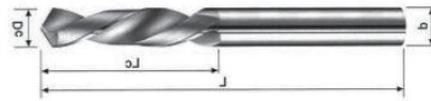
90° องศา

CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
TD2308-060	6	6	20	139	
TD2308-080	8	8	25	165	
TD2308-100	10	10	25	184	
TD2308-120	12	12	30	205	
TD2308-160	16	16	35	227	
TD2308-200	20	20	40	254	



CARBIDE DRILLS

CODE	ขนาด	คมกััด	ยาว	BAHT
TD412-0010	1.0	6	26	
TD412-0011	1.1	7	28	
TD412-0012	1.2	8	30	
TD412-0013	1.3	8	30	
TD412-0014	1.4	9	32	
TD412-0015	1.5	9	32	
TD412-0016	1.6	10	34	
TD412-0017	1.7	10	34	
TD412-0018	1.8	11	36	
TD412-0019	1.9	11	36	
TD412-0020	2.0	12	38	
TD412-0021	2.1	12	38	
TD412-0022	2.2	13	40	
TD412-0023	2.3	13	40	
TD412-0024	2.4	14	43	
TD412-0025	2.5	14	43	
TD412-0026	2.6	14	43	
TD412-0027	2.7	16	46	
TD412-0028	2.8	16	46	
TD412-0029	2.9	16	46	
TD412-0030	3.0	16	46	
TD412-0031	3.1	18	49	
TD412-0032	3.2	18	49	
TD412-0033	3.3	18	49	
TD412-0034	3.4	20	52	
TD412-0035	3.5	20	20	
TD412-0036	3.6	20	52	
TD412-0037	3.7	20	52	
TD412-0038	3.8	22	55	
TD412-0039	3.9	22	55	
TD412-0040	4.0	22	55	
TD412-0041	4.1	22	55	
TD412-0042	4.2	22	55	
TD412-0043	4.3	24	58	
TD412-0044	4.4	24	58	
TD412-0045	4.5	24	58	
TD412-0046	4.6	24	58	
TD412-0047	4.7	24	58	
TD412-0048	4.8	26	62	
TD412-0049	4.9	26	62	
TD412-0050	5.0	26	62	
TD412-0051	5.1	26	62	
TD412-0052	5.2	26	62	
TD412-0053	5.3	26	62	
TD412-0054	5.4	28	66	
TD412-0055	5.5	28	66	
TD412-0056	5.6	28	66	
TD412-0057	5.7	28	66	
TD412-0058	5.8	28	66	
TD412-0059	5.9	28	66	

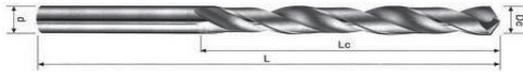


DIN
6539



CODE	ขนาด	คมกััด	ยาว	BAHT
TD412-0060	6.0	28	66	
TD412-0061	6.1	31	70	
TD412-0062	6.2	31	70	
TD412-0063	6.3	31	70	
TD412-0064	6.4	31	70	
TD412-0065	6.5	31	70	
TD412-0066	6.6	31	70	
TD412-0067	6.7	31	70	
TD412-0068	6.8	34	74	
TD412-0069	6.9	34	74	
TD412-0070	7.0	34	74	
TD412-0071	7.1	34	74	
TD412-0072	7.2	34	74	
TD412-0073	7.3	34	74	
TD412-0074	7.4	34	74	
TD412-0075	7.5	34	74	
TD412-0076	7.6	37	79	
TD412-0077	7.7	37	79	
TD412-0078	7.8	37	79	
TD412-0079	7.9	37	79	
TD412-0080	8.0	37	79	
TD412-0081	8.1	37	79	
TD412-0082	8.2	37	79	
TD412-0083	8.3	37	79	
TD412-0084	8.4	37	79	
TD412-0085	8.5	37	79	
TD412-0086	8.6	40	84	
TD412-0087	8.7	40	84	
TD412-0088	8.8	40	84	
TD412-0089	8.9	40	84	
TD412-0090	9.0	40	84	
TD412-0091	9.1	40	84	
TD412-0092	9.2	40	84	
TD412-0093	9.3	40	84	
TD412-0094	9.4	40	84	
TD412-0095	9.5	40	84	
TD412-0096	9.6	43	89	
TD412-0097	9.7	43	89	
TD412-0098	9.8	43	89	
TD412-0099	9.9	43	89	
TD412-0100	10.0	43	89	
TD412-0102	10.2	43	89	
TD412-0105	10.5	43	89	
TD412-0108	10.8	47	95	
TD412-0110	11.0	47	95	
TD412-0115	11.5	47	95	
TD412-0120	12.0	51	102	
TD412-0125	12.5	51	102	
TD412-0130	13.0	51	102	

★ เหมาะสำหรับเหล็ก เหล็กหล่อ ทองแดง อลูมิเนียม

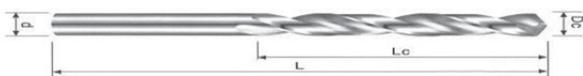


DIN
6539



CODE	ขนาด	คมกัด	ยาว	BAHT
TD413-0010	1.0	12	34	
TD413-0011	1.1	14	36	
TD413-0012	1.2	16	38	
TD413-0013	1.3	16	38	
TD413-0014	1.4	18	40	
TD413-0015	1.5	18	40	
TD413-0016	1.6	20	43	
TD413-0017	1.7	20	43	
TD413-0018	1.8	22	46	
TD413-0019	1.9	22	46	
TD413-0020	2.0	24	49	
TD413-0021	2.1	24	49	
TD413-0022	2.2	27	53	
TD413-0023	2.3	27	53	
TD413-0024	2.4	30	57	
TD413-0025	2.5	30	57	
TD413-0026	2.6	30	57	
TD413-0027	2.7	33	61	
TD413-0028	2.8	33	61	
TD413-0029	2.9	33	61	
TD413-0030	3.0	33	61	
TD413-0031	3.1	36	65	
TD413-0032	3.2	36	65	
TD413-0033	3.3	36	65	
TD413-0034	3.4	39	70	
TD413-0035	3.5	39	70	
TD413-0036	3.6	39	70	
TD413-0037	3.7	39	70	
TD413-0038	3.8	43	75	
TD413-0039	3.9	43	75	
TD413-0040	4.0	43	75	
TD413-0041	4.1	43	75	
TD413-0042	4.2	43	75	
TD413-0043	4.3	47	80	
TD413-0044	4.4	47	80	
TD413-0045	4.5	47	80	
TD413-0046	4.6	47	80	
TD413-0047	4.7	47	80	
TD413-0048	4.8	52	86	
TD413-0049	4.9	52	86	
TD413-0050	5.0	52	86	
TD413-0051	5.1	52	86	
TD413-0052	5.2	52	86	
TD413-0053	5.3	57	93	
TD413-0054	5.4	57	93	
TD413-0055	5.5	57	93	
TD413-0056	5.6	57	93	
TD413-0057	5.7	57	93	
TD413-0058	5.8	57	93	
TD413-0059	5.9	57	93	

CODE	ขนาด	คมกัด	ยาว	BAHT
TD413-0060	6.0	57	93	
TD413-0061	6.1	63	101	
TD413-0062	6.2	63	101	
TD413-0063	6.3	63	101	
TD413-0064	6.4	63	101	
TD413-0065	6.5	63	101	
TD413-0066	6.6	63	101	
TD413-0067	6.7	63	101	
TD413-0068	6.8	69	109	
TD413-0069	6.9	69	109	
TD413-0070	7.0	69	109	
TD413-0071	7.1	69	109	
TD413-0072	7.2	69	109	
TD413-0073	7.3	69	109	
TD413-0074	7.4	69	109	
TD413-0075	7.5	69	109	
TD413-0076	7.6	75	117	
TD413-0077	7.7	75	117	
TD413-0078	7.8	75	117	
TD413-0079	7.9	75	117	
TD413-0080	8.0	75	117	
TD413-0081	8.1	75	117	
TD413-0082	8.2	75	117	
TD413-0083	8.3	75	117	
TD413-0084	8.4	75	117	
TD413-0085	8.5	75	117	
TD413-0086	8.6	81	125	
TD413-0087	8.7	81	125	
TD413-0088	8.8	81	125	
TD413-0089	8.9	81	125	
TD413-0090	9.0	81	125	
TD413-0091	9.1	81	125	
TD413-0092	9.2	81	125	
TD413-0093	9.3	81	125	
TD413-0094	9.4	81	125	
TD413-0095	9.5	81	125	
TD413-0096	9.6	87	133	
TD413-0097	9.7	87	133	
TD413-0098	9.8	87	133	
TD413-0099	9.9	87	133	
TD413-0100	10.0	87	133	
TD413-0102	10.2	87	133	
TD413-0105	10.5	87	133	
TD413-0108	10.8	94	142	
TD413-0110	11.0	94	142	
TD413-0115	11.5	94	142	
TD413-0120	12.0	101	151	
TD413-0125	12.5	101	151	
TD413-0130	13.0	101	151	



CODE	ขนาด	Decimal Equiv	คมกัด	ยาว	BAHT
TD453-I001	1/64	0.0156	3/16	3/4	
TD453-I002	1/32	0.0312	5/16	1-1/4	
TD453-I003	3/64	0.0469	3/4	1-1/2	
TD453-I004	1/16	0.0625	3/4	1-1/2	
TD453-I005	5/64	0.0781	7/8	1-3/4	
TD453-I006	3/32	0.0938	1	2	
TD453-I007	7/64	0.1094	1-1/4	2-1/4	
TD453-I008	1/8	0.1250	1-1/4	2-1/4	
TD453-I009	9/64	0.1406	1-3/8	2-1/2	
TD453-I010	5/32	0.1562	1-3/8	2-1/2	
TD453-I011	11/64	0.1719	1-5/8	2-3/4	
TD453-I012	3/16	0.1875	1-5/8	2-3/4	
TD453-I013	13/64	0.2031	1-3/4	3	
TD453-I014	7/32	0.2188	1-3/4	3	
TD453-I015	15/64	0.2344	2	3-1/4	
TD453-I016	1/4	0.2500	2	3-1/4	

CODE	ขนาด	Decimal Equiv	คมกัด	ยาว	BAHT
TD453-I017	17/64	0.2656	2-1/8	3-1/2	
TD453-I018	9/32	0.2812	2-1/8	3-1/2	
TD453-I019	19/64	0.2969	2-3/8	3-3/4	
TD453-I020	5/16	0.3125	2-3/8	3-3/4	
TD453-I021	21/64	0.3281	2-1/2	4	
TD453-I022	11/32	0.3438	2-1/2	4	
TD453-I023	23/64	0.3594	2-1/2	4-1/4	
TD453-I024	3/8	0.3750	2-3/4	4-1/4	
TD453-I025	25/64	0.3906	2-7/8	4-1/2	
TD453-I026	13/32	0.4062	2-7/8	4-1/2	
TD453-I027	27/64	0.4219	2-7/8	4-1/2	
TD453-I028	7/16	0.4375	2-7/8	4-1/2	
TD453-I029	29/64	0.4531	3	4-3/4	
TD453-I030	15/32	0.4688	3	4-3/4	
TD453-I031	31/64	0.4844	3	4-3/4	
TD453-I032	1/2	0.5000	3	4-3/4	
TD453-I033	17/32	0.5312	3-1/4	5	
TD453-I034	9/16	0.5625	3-1/4	5	
TD453-I035	5/8	0.6250	3-1/2	5-1/4	
TD453-I036	3/4	0.7500	3-7/8	5-3/4	



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CODE	ขนาด	คมกัด	ยาว	BAHT
TD430-0010	1.0	6	26	
TD430-0011	1.1	7	28	
TD430-0012	1.2	8	30	
TD430-0013	1.3	8	30	
TD430-0014	1.4	9	32	
TD430-0015	1.5	9	32	
TD430-0016	1.6	10	34	
TD430-0017	1.7	10	34	
TD430-0018	1.8	11	36	
TD430-0019	1.9	11	36	
TD430-0020	2.0	12	38	
TD430-0021	2.1	12	38	
TD430-0022	2.2	13	40	
TD430-0023	2.3	13	40	
TD430-0024	2.4	14	43	
TD430-0025	2.5	14	43	
TD430-0026	2.6	14	43	
TD430-0027	2.7	16	46	
TD430-0028	2.8	16	46	
TD430-0029	2.9	16	46	
TD430-0030	3.0	16	46	
TD430-0031	3.1	18	49	
TD430-0032	3.2	18	49	
TD430-0033	3.3	18	49	
TD430-0034	3.4	20	52	
TD430-0035	3.5	20	52	
TD430-0036	3.6	20	52	
TD430-0037	3.7	20	52	
TD430-0038	3.8	22	55	
TD430-0039	3.9	22	55	
TD430-0040	4.0	22	55	
TD430-0041	4.1	22	55	
TD430-0042	4.2	22	55	
TD430-0043	4.3	24	58	
TD430-0044	4.4	24	58	
TD430-0045	4.5	24	58	
TD430-0046	4.6	24	58	
TD430-0047	4.7	24	58	
TD430-0048	4.8	26	62	
TD430-0049	4.9	26	62	
TD430-0050	5.0	26	62	
TD430-0051	5.1	26	62	
TD430-0052	5.2	26	62	
TD430-0053	5.3	26	62	
TD430-0054	5.4	28	66	
TD430-0055	5.5	28	66	
TD430-0056	5.6	28	66	
TD430-0057	5.7	28	66	
TD430-0058	5.8	28	66	
TD430-0059	5.9	28	66	

CODE	ขนาด	คมกัด	ยาว	BAHT
TD430-0060	6.0	28	66	
TD430-0061	6.1	31	70	
TD430-0062	6.2	31	70	
TD430-0063	6.3	31	70	
TD430-0064	6.4	31	70	
TD430-0065	6.5	31	70	
TD430-0066	6.6	31	70	
TD430-0067	6.7	31	70	
TD430-0068	6.8	34	74	
TD430-0069	6.9	34	74	
TD430-0070	7.0	34	74	
TD430-0071	7.1	34	74	
TD430-0072	7.2	34	74	
TD430-0073	7.3	34	74	
TD430-0074	7.4	34	74	
TD430-0075	7.5	34	74	
TD430-0076	7.6	37	79	
TD430-0077	7.7	37	79	
TD430-0078	7.8	37	79	
TD430-0079	7.9	37	79	
TD430-0080	8.0	37	79	
TD430-0081	8.1	37	79	
TD430-0082	8.2	37	79	
TD430-0083	8.3	37	79	
TD430-0084	8.4	37	79	
TD430-0085	8.5	37	79	
TD430-0086	8.6	40	84	
TD430-0087	8.7	40	84	
TD430-0088	8.8	40	84	
TD430-0089	8.9	40	84	
TD430-0090	9.0	40	84	
TD430-0091	9.1	40	84	
TD430-0092	9.2	40	84	
TD430-0093	9.3	40	84	
TD430-0094	9.4	40	84	
TD430-0095	9.5	40	84	
TD430-0096	9.6	43	89	
TD430-0097	9.7	43	89	
TD430-0098	9.8	43	89	
TD430-0099	9.9	43	89	
TD430-0100	10.0	43	89	
TD430-0102	10.2	43	89	
TD430-0105	10.5	43	89	
TD430-0108	10.8	47	95	
TD430-0110	11.0	47	95	
TD430-0115	11.5	47	95	
TD430-0120	12.0	51	102	
TD430-0125	12.5	51	102	
TD430-0130	13.0	51	102	

★ 適用於鑄鐵、合金鋼、碳鋼、淬火鋼等。
(HRC50°以下)



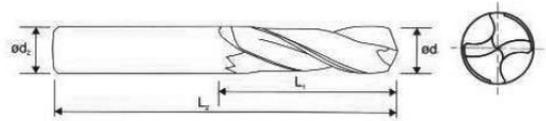
CODE	ขนาด	คมกัด	ยาว	BAHT
TD433-0010	1.0	12	34	
TD433-0011	1.1	14	36	
TD433-0012	1.2	16	38	
TD433-0013	1.3	16	38	
TD433-0014	1.4	18	40	
TD433-0015	1.5	18	40	
TD433-0016	1.6	20	43	
TD433-0017	1.7	20	43	
TD433-0018	1.8	22	46	
TD433-0019	1.9	22	46	
TD433-0020	2.0	24	49	
TD433-0021	2.1	24	49	
TD433-0022	2.2	27	53	
TD433-0023	2.3	27	53	
TD433-0024	2.4	30	57	
TD433-0025	2.5	30	57	
TD433-0026	2.6	30	57	
TD433-0027	2.7	33	61	
TD433-0028	2.8	33	61	
TD433-0029	2.9	33	61	
TD433-0030	3.0	33	61	
TD433-0031	3.1	36	65	
TD433-0032	3.2	36	65	
TD433-0033	3.3	36	65	
TD433-0034	3.4	39	70	
TD433-0035	3.5	39	70	
TD433-0036	3.6	39	70	
TD433-0037	3.7	39	70	
TD433-0038	3.8	43	75	
TD433-0039	3.9	43	75	
TD433-0040	4.0	43	75	
TD433-0041	4.1	43	75	
TD433-0042	4.2	43	75	
TD433-0043	4.3	47	80	
TD433-0044	4.4	47	80	
TD433-0045	4.5	47	80	
TD433-0046	4.6	47	80	
TD433-0047	4.7	47	80	
TD433-0048	4.8	52	86	
TD433-0049	4.9	52	86	
TD433-0050	5.0	52	86	
TD433-0051	5.1	52	86	
TD433-0052	5.2	52	86	
TD433-0053	5.3	52	86	
TD433-0054	5.4	57	93	
TD433-0055	5.5	57	93	
TD433-0056	5.6	57	93	
TD433-0057	5.7	57	93	
TD433-0058	5.8	57	93	
TD433-0059	5.9	57	93	

CODE	ขนาด	คมกัด	ยาว	BAHT
TD433-0060	6.0	57	93	
TD433-0061	6.1	63	101	
TD433-0062	6.2	63	101	
TD433-0063	6.3	63	101	
TD433-0064	6.4	63	101	
TD433-0065	6.5	63	101	
TD433-0066	6.6	63	101	
TD433-0067	6.7	63	101	
TD433-0068	6.8	69	109	
TD433-0069	6.9	69	109	
TD433-0070	7.0	69	109	
TD433-0071	7.1	69	109	
TD433-0072	7.2	69	109	
TD433-0073	7.3	69	109	
TD433-0074	7.4	69	109	
TD433-0075	7.5	69	109	
TD433-0076	7.6	75	117	
TD433-0077	7.7	75	117	
TD433-0078	7.8	75	117	
TD433-0079	7.9	75	117	
TD433-0080	8.0	75	117	
TD433-0081	8.1	75	117	
TD433-0082	8.2	75	117	
TD433-0083	8.3	75	117	
TD433-0084	8.4	75	117	
TD433-0085	8.5	75	117	
TD433-0086	8.6	81	125	
TD433-0087	8.7	81	125	
TD433-0088	8.8	81	125	
TD433-0089	8.9	81	125	
TD433-0090	9.0	81	125	
TD433-0091	9.1	81	125	
TD433-0092	9.2	9.2	125	
TD433-0093	9.3	81	125	
TD433-0094	9.4	81	125	
TD433-0095	9.5	81	125	
TD433-0096	9.6	87	133	
TD433-0097	9.7	87	133	
TD433-0098	9.8	87	133	
TD433-0099	9.9	87	133	
TD433-0100	10.0	87	133	
TD433-0102	10.2	87	133	
TD433-0105	10.5	87	133	
TD433-0108	10.8	94	142	
TD433-0110	11.0	94	142	
TD433-0115	11.5	94	142	
TD433-0120	12.0	101	151	
TD433-0125	12.5	101	151	
TD433-0130	13.0	101	151	

★ 適用於鑄鐵、合金鋼、碳鋼、淬火鋼等。
 (HRC50°以下)



For Drilling Depth of 3XD **TiALN-COATED**



Point (頂角) 140°

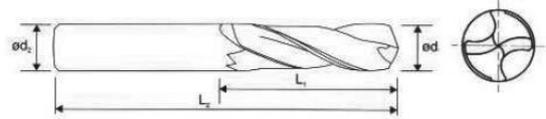
CODE	ขนาด	คมกัด	ยาว	BAHT	CODE
TD352-0030	3	6	20	62	
TD352-0031	3.1	6	20	62	
TD352-0032	3.2	6	20	62	
TD352-0033	3.3	6	20	62	
TD352-0034	3.4	6	20	62	
TD352-0035	3.5	6	20	62	
TD352-0036	3.6	6	20	62	
TD352-0037	3.7	6	20	62	
TD352-0038	3.8	6	24	66	
TD352-0039	3.9	6	24	66	
TD352-0040	4	6	24	66	
TD352-0041	4.1	6	24	66	
TD352-0042	4.2	6	24	66	
TD352-0043	4.3	6	24	66	
TD352-0044	4.4	6	24	66	
TD352-0045	4.5	6	24	66	
TD352-0046	4.6	6	24	66	
TD352-0047	4.7	6	24	66	
TD352-0048	4.8	6	28	66	
TD352-0049	4.9	6	28	66	
TD352-0050	5	6	28	66	
TD352-0051	5.1	6	28	66	
TD352-0052	5.2	6	28	66	
TD352-0053	5.3	6	28	66	
TD352-0054	5.4	6	28	66	
TD352-0055	5.5	6	28	66	
TD352-0056	5.6	6	28	66	
TD352-0057	5.7	6	28	66	
TD352-0058	5.8	6	28	66	
TD352-0059	5.9	6	28	66	
TD352-0060	6	6	28	66	
TD352-0061	6.1	8	34	79	
TD352-0062	6.2	8	34	79	
TD352-0063	6.3	8	34	79	
TD352-0064	6.4	8	34	79	
TD352-0065	6.5	8	34	79	
TD352-0066	6.6	8	34	79	
TD352-0067	6.7	8	34	79	
TD352-0068	6.8	8	34	79	
TD352-0069	6.9	8	34	79	
TD352-0070	7	8	34	79	
TD352-0071	7.1	8	41	79	
TD352-0072	7.2	8	41	79	
TD352-0073	7.3	8	41	79	
TD352-0074	7.4	8	41	79	
TD352-0075	7.5	8	41	79	
TD352-0076	7.6	8	41	79	
TD352-0077	7.7	8	41	79	
TD352-0078	7.8	8	41	79	
TD352-0079	7.9	8	41	79	
TD352-0080	8	8	41	79	
TD352-0081	8.1	10	47	89	
TD352-0082	8.2	10	47	89	
TD352-0083	8.3	10	47	89	
TD352-0084	8.4	10	47	89	
TD352-0085	8.5	10	47	89	

CODE	ขนาด	คมกัด	ยาว	BAHT	CODE
TD352-0086	8.6	10	47	89	
TD352-0087	8.7	10	47	89	
TD352-0088	8.8	10	47	89	
TD352-0089	8.9	10	47	89	
TD352-0090	9	10	47	89	
TD352-0091	9.1	10	47	89	
TD352-0092	9.2	10	47	89	
TD352-0093	9.3	10	47	89	
TD352-0094	9.4	10	47	89	
TD352-0095	9.5	10	47	89	
TD352-0096	9.6	10	47	89	
TD352-0097	9.7	10	47	89	
TD352-0098	9.8	10	47	89	
TD352-0099	9.9	10	47	89	
TD352-0100	10	10	47	89	
TD352-0101	10.1	12	55	102	
TD352-0102	10.2	12	55	102	
TD352-0103	10.3	12	55	102	
TD352-0104	10.4	12	55	102	
TD352-0105	10.5	12	55	102	
TD352-0106	10.6	12	55	102	
TD352-0107	10.7	12	55	102	
TD352-0108	10.8	12	55	102	
TD352-0109	10.9	12	55	102	
TD352-0110	11	12	55	102	
TD352-0111	11.1	12	55	102	
TD352-0112	11.2	12	55	102	
TD352-0113	11.3	12	55	102	
TD352-0114	11.4	12	55	102	
TD352-0115	11.5	12	55	102	
TD352-0116	11.6	12	55	102	
TD352-0117	11.7	12	55	102	
TD352-0118	11.8	12	55	102	
TD352-0119	11.9	12	55	102	
TD352-0120	12	12	55	102	
TD352-0125	12.5	14	60	107	
TD352-0128	12.8	14	60	107	
TD352-0130	13	14	60	107	
TD352-0135	13.5	14	60	107	
TD352-0140	14	14	60	107	
TD352-0145	14.5	16	65	115	
TD352-0150	15	16	65	115	
TD352-0155	15.5	16	65	115	
TD352-0160	16	16	65	115	
TD352-0165	16.5	18	73	123	
TD352-0170	17	18	73	123	
TD352-0175	17.5	18	73	123	
TD352-0180	18	18	73	123	
TD352-0185	18.5	20	79	131	
TD352-0190	19	20	79	131	
TD352-0195	19.5	20	79	131	
TD352-0200	20	20	79	131	

- ★ 適用於加工淬火鋼(HRC60° 以下)不鏽鋼、鈦合金、高溫合金、工具鋼、鑄鐵、耐磨塑料等材料
- ★ 高效率、高精度鑽削、耐磨，鑽頭壽命長



For Drilling Depth of 5XD **TiALN-COATED**



Point (頂角) 140°

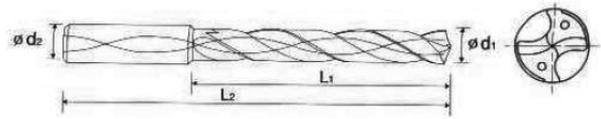
CODE	ขนาด	คมกัด	ยาว	BAHT	CODE
TD353-0030	3	6	28	66	
TD353-0031	3.1	6	28	66	
TD353-0032	3.2	6	28	66	
TD353-0033	3.3	6	28	66	
TD353-0034	3.4	6	28	66	
TD353-0035	3.5	6	28	66	
TD353-0036	3.6	6	28	66	
TD353-0037	3.7	6	28	66	
TD353-0038	3.8	6	36	74	
TD353-0039	3.9	6	36	74	
TD353-0040	4	6	36	74	
TD353-0041	4.1	6	36	74	
TD353-0042	4.2	6	36	74	
TD353-0043	4.3	6	36	74	
TD353-0044	4.4	6	36	74	
TD353-0045	4.5	6	36	74	
TD353-0046	4.6	6	36	74	
TD353-0047	4.7	6	36	74	
TD353-0048	4.8	6	44	82	
TD353-0049	4.9	6	44	82	
TD353-0050	5	6	44	82	
TD353-0051	5.1	6	44	82	
TD353-0052	5.2	6	44	82	
TD353-0053	5.3	6	44	82	
TD353-0054	5.4	6	44	82	
TD353-0055	5.5	6	44	82	
TD353-0056	5.6	6	44	82	
TD353-0057	5.7	6	44	82	
TD353-0058	5.8	6	44	82	
TD353-0059	5.9	6	44	82	
TD353-0060	6	6	44	82	
TD353-0061	6.1	8	53	91	
TD353-0062	6.2	8	53	91	
TD353-0063	6.3	8	53	91	
TD353-0064	6.4	8	53	91	
TD353-0065	6.5	8	53	91	
TD353-0066	6.6	8	53	91	
TD353-0067	6.7	8	53	91	
TD353-0068	6.8	8	53	91	
TD353-0069	6.9	8	53	91	
TD353-0070	7	8	53	91	
TD353-0071	7.1	8	53	91	
TD353-0072	7.2	8	53	91	
TD353-0073	7.3	8	53	91	
TD353-0074	7.4	8	53	91	
TD353-0075	7.5	8	53	91	
TD353-0076	7.6	8	53	91	
TD353-0077	7.7	8	53	91	
TD353-0078	7.8	8	53	91	
TD353-0079	7.9	8	53	91	
TD353-0080	8	8	53	91	
TD353-0081	8.1	10	61	103	
TD353-0082	8.2	10	61	103	
TD353-0083	8.3	10	61	103	
TD353-0084	8.4	10	61	103	
TD353-0085	8.5	10	61	103	

CODE	ขนาด	คมกัด	ยาว	BAHT	CODE
TD353-0086	8.6	10	61	103	
TD353-0087	8.7	10	61	103	
TD353-0088	8.8	10	61	103	
TD353-0089	8.9	10	61	103	
TD353-0090	9	10	61	103	
TD353-0091	9.1	10	61	103	
TD353-0092	9.2	10	61	103	
TD353-0093	9.3	10	61	103	
TD353-0094	9.4	10	61	103	
TD353-0095	9.5	10	61	103	
TD353-0096	9.6	10	61	103	
TD353-0097	9.7	10	61	103	
TD353-0098	9.8	10	61	103	
TD353-0099	9.9	10	61	103	
TD353-0100	10	10	61	103	
TD353-0101	10.1	12	71	118	
TD353-0102	10.2	12	71	118	
TD353-0103	10.3	12	71	118	
TD353-0104	10.4	12	71	118	
TD353-0105	10.5	12	71	118	
TD353-0106	10.6	12	71	118	
TD353-0107	10.7	12	71	118	
TD353-0108	10.8	12	71	118	
TD353-0109	10.9	12	71	118	
TD353-0110	11	12	71	118	
TD353-0111	11.1	12	71	118	
TD353-0112	11.2	12	71	118	
TD353-0113	11.3	12	71	118	
TD353-0114	11.4	12	71	118	
TD353-0115	11.5	12	71	118	
TD353-0116	11.6	12	71	118	
TD353-0117	11.7	12	71	118	
TD353-0118	11.8	12	71	118	
TD353-0119	11.9	12	71	118	
TD353-0120	12	12	71	118	
TD353-0125	12.5	14	77	124	
TD353-0130	13	14	77	124	
TD353-0135	13.5	14	77	124	
TD353-0140	14	14	77	124	
TD353-0145	14.5	16	83	133	
TD353-0150	15	16	83	133	
TD353-0155	15.5	16	83	133	
TD353-0160	16	16	83	133	
TD353-0165	16.5	18	93	143	
TD353-0170	17	18	93	143	
TD353-0175	17.5	18	93	143	
TD353-0180	18	18	93	143	
TD353-0185	18.5	20	101	153	
TD353-0190	19	20	101	153	
TD353-0195	19.5	20	101	153	
TD353-0200	20	20	101	153	

- ★ 適用於加工淬火鋼(HRC60° 以下)不鏽鋼、鈦合金、高溫合金、工具鋼、鑄鐵、耐磨塑料等材料
- ★ 高效率、高精度鑽削、耐磨、鑽頭壽命長
- ★ 自定心功能 可免除定點鑽，特殊的設計 不需要鉸孔



For Drilling Depth of 3XD **TiALN-COATED**



Point (頂角) 140°

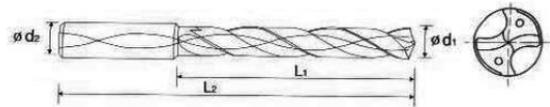
CODE	ขนาด	คมกัด	ยาว	BAHT	CODE
TD362-0030	3	6	20	62	
TD362-0031	3.1	6	20	62	
TD362-0032	3.2	6	20	62	
TD362-0033	3.3	6	20	62	
TD362-0034	3.4	6	20	62	
TD362-0035	3.5	6	20	62	
TD362-0036	3.6	6	20	62	
TD362-0037	3.7	6	20	62	
TD362-0038	3.8	6	24	66	
TD362-0039	3.9	6	24	66	
TD362-0040	4	6	24	66	
TD362-0041	4.1	6	24	66	
TD362-0042	4.2	6	24	66	
TD362-0043	4.3	6	24	66	
TD362-0044	4.4	6	24	66	
TD362-0045	4.5	6	24	66	
TD362-0046	4.6	6	24	66	
TD362-0047	4.7	6	24	66	
TD362-0048	4.8	6	28	66	
TD362-0049	4.9	6	28	66	
TD362-0050	5	6	28	66	
TD362-0051	5.1	6	28	66	
TD362-0052	5.2	6	28	66	
TD362-0053	5.3	6	28	66	
TD362-0054	5.4	6	28	66	
TD362-0055	5.5	6	28	66	
TD362-0056	5.6	6	28	66	
TD362-0057	5.7	6	28	66	
TD362-0058	5.8	6	28	66	
TD362-0059	5.9	6	28	66	
TD362-0060	6	6	28	66	
TD362-0061	6.1	8	34	79	
TD362-0062	6.2	8	34	79	
TD362-0063	6.3	8	34	79	
TD362-0064	6.4	8	34	79	
TD362-0065	6.5	8	34	79	
TD362-0066	6.6	8	34	79	
TD362-0067	6.7	8	34	79	
TD362-0068	6.8	8	34	79	
TD362-0069	6.9	8	34	79	
TD362-0070	7	8	34	79	
TD362-0071	7.1	8	41	79	
TD362-0072	7.2	8	41	79	
TD362-0073	7.3	8	41	79	
TD362-0074	7.4	8	41	79	
TD362-0075	7.5	8	41	79	
TD362-0076	7.6	8	41	79	
TD362-0077	7.7	8	41	79	
TD362-0078	7.8	8	41	79	
TD362-0079	7.9	8	41	79	
TD362-0080	8	8	41	79	
TD362-0081	8.1	10	47	89	
TD362-0082	8.2	10	47	89	
TD362-0083	8.3	10	47	89	
TD362-0084	8.4	10	47	89	
TD362-0085	8.5	10	47	89	

CODE	ขนาด	คมกัด	ยาว	BAHT	CODE
TD362-0086	8.6	10	47	89	
TD362-0087	8.7	10	47	89	
TD362-0088	8.8	10	47	89	
TD362-0089	8.9	10	47	89	
TD362-0090	9	10	47	89	
TD362-0091	9.1	10	47	89	
TD362-0092	9.2	10	47	89	
TD362-0093	9.3	10	47	89	
TD362-0094	9.4	10	47	89	
TD362-0095	9.5	10	47	89	
TD362-0096	9.6	10	47	89	
TD362-0097	9.7	10	47	89	
TD362-0098	9.8	10	47	89	
TD362-0099	9.9	10	47	89	
TD362-0100	10	10	47	89	
TD362-0101	10.1	12	55	102	
TD362-0102	10.2	12	55	102	
TD362-0103	10.3	12	55	102	
TD362-0104	10.4	12	55	102	
TD362-0105	10.5	12	55	102	
TD362-0106	10.6	12	55	102	
TD362-0107	10.7	12	55	102	
TD362-0108	10.8	12	55	102	
TD362-0109	10.9	12	55	102	
TD362-0110	11	12	55	102	
TD362-0111	11.1	12	55	102	
TD362-0112	11.2	12	55	102	
TD362-0113	11.3	12	55	102	
TD362-0114	11.4	12	55	102	
TD362-0115	11.5	12	55	102	
TD362-0116	11.6	12	55	102	
TD362-0117	11.7	12	55	102	
TD362-0118	11.8	12	55	102	
TD362-0119	11.9	12	55	102	
TD362-0120	12	12	55	102	
TD362-0125	12.5	14	60	107	
TD362-0130	13	14	60	107	
TD362-0135	13.5	14	60	107	
TD362-0140	14	14	60	107	
TD362-0145	14.5	16	65	115	
TD362-0150	15	16	65	115	
TD362-0155	15.5	16	65	115	
TD362-0160	16	16	65	115	
TD362-0165	16.5	18	73	123	
TD362-0170	17	18	73	123	
TD362-0175	17.5	18	73	123	
TD362-0180	18	18	73	123	
TD362-0185	18.5	20	79	131	
TD362-0190	19	20	79	131	
TD362-0195	19.5	20	79	131	
TD362-0200	20	20	79	131	

- ★ 適用於加工淬火鋼(HRC60° 以下)不鏽鋼、鈦合金、高溫合金、工具鋼、鑄鐵、耐磨塑料等材料
- ★ 高效率、高精度鑽削、耐磨、鑽頭壽命長
- ★ 自定心功能 可免除定點鑽，特殊的設計 不需要鉸孔



For Drilling Depth of 5XD **TiALN-COATED**

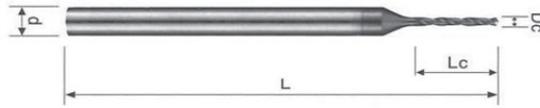


Point (頂角) 140° 內冷卻

CODE	ขนาด	คมกัด	ยาว	BAHT	CODE
TD363-0030	3	6	28	66	
TD363-0031	3.1	6	28	66	
TD363-0032	3.2	6	28	66	
TD363-0033	3.3	6	28	66	
TD363-0034	3.4	6	28	66	
TD363-0035	3.5	6	28	66	
TD363-0036	3.6	6	28	66	
TD363-0037	3.7	6	28	66	
TD363-0038	3.8	6	36	74	
TD363-0039	3.9	6	36	74	
TD363-0040	4	6	36	74	
TD363-0041	4.1	6	36	74	
TD363-0042	4.2	6	36	74	
TD363-0043	4.3	6	36	74	
TD363-0044	4.4	6	36	74	
TD363-0045	4.5	6	36	74	
TD363-0046	4.6	6	36	74	
TD363-0047	4.7	6	36	74	
TD363-0048	4.8	6	44	82	
TD363-0049	4.9	6	44	82	
TD363-0050	5	6	44	82	
TD363-0051	5.1	6	44	82	
TD363-0052	5.2	6	44	82	
TD363-0053	5.3	6	44	82	
TD363-0054	5.4	6	44	82	
TD363-0055	5.5	6	44	82	
TD363-0056	5.6	6	44	82	
TD363-0057	5.7	6	44	82	
TD363-0058	5.8	6	44	82	
TD363-0059	5.9	6	44	82	
TD363-0060	6	6	44	82	
TD363-0061	6.1	8	53	91	
TD363-0062	6.2	8	53	91	
TD363-0063	6.3	8	53	91	
TD363-0064	6.4	8	53	91	
TD363-0065	6.5	8	53	91	
TD363-0066	6.6	8	53	91	
TD363-0067	6.7	8	53	91	
TD363-0068	6.8	8	53	91	
TD363-0069	6.9	8	53	91	
TD363-0070	7	8	53	91	
TD363-0071	7.1	8	53	91	
TD363-0072	7.2	8	53	91	
TD363-0073	7.3	8	53	91	
TD363-0074	7.4	8	53	91	
TD363-0075	7.5	8	53	91	
TD363-0076	7.6	8	53	91	
TD363-0077	7.7	8	53	91	
TD363-0078	7.8	8	53	91	
TD363-0079	7.9	8	53	91	
TD363-0080	8	8	53	91	
TD363-0081	8.1	10	61	103	
TD363-0082	8.2	10	61	103	
TD363-0083	8.3	10	61	103	
TD363-0084	8.4	10	61	103	
TD363-0085	8.5	10	61	103	

CODE	ขนาด	คมกัด	ยาว	BAHT	CODE
TD363-0086	8.6	10	61	103	
TD363-0087	8.7	10	61	103	
TD363-0088	8.8	10	61	103	
TD363-0089	8.9	10	61	103	
TD363-0090	9	10	61	103	
TD363-0091	9.1	10	61	103	
TD363-0092	9.2	10	61	103	
TD363-0093	9.3	10	61	103	
TD363-0094	9.4	10	61	103	
TD363-0095	9.5	10	61	103	
TD363-0096	9.6	10	61	103	
TD363-0097	9.7	10	61	103	
TD363-0098	9.8	10	61	103	
TD363-0099	9.9	10	61	103	
TD363-0100	10	10	61	103	
TD363-0101	10.1	12	71	118	
TD363-0102	10.2	12	71	118	
TD363-0103	10.3	12	71	118	
TD363-0104	10.4	12	71	118	
TD363-0105	10.5	12	71	118	
TD363-0106	10.6	12	71	118	
TD363-0107	10.7	12	71	118	
TD363-0108	10.8	12	71	118	
TD363-0109	10.9	12	71	118	
TD363-0110	11	12	71	118	
TD363-0111	11.1	12	71	118	
TD363-0112	11.2	12	71	118	
TD363-0113	11.3	12	71	118	
TD363-0114	11.4	12	71	118	
TD363-0115	11.5	12	71	118	
TD363-0116	11.6	12	71	118	
TD363-0117	11.7	12	71	118	
TD363-0118	11.8	12	71	118	
TD363-0119	11.9	12	71	118	
TD363-0120	12	12	71	118	
TD363-0125	12.5	14	77	124	
TD363-0130	13	14	77	124	
TD363-0135	13.5	14	77	124	
TD363-0140	14	14	77	124	
TD363-0145	14.5	16	83	133	
TD363-0150	15	16	83	133	
TD363-0155	15.5	16	83	133	
TD363-0160	16	16	83	133	
TD363-0165	16.5	18	93	143	
TD363-0170	17	18	93	143	
TD363-0175	17.5	18	93	143	
TD363-0180	18	18	93	143	
TD363-0185	18.5	20	101	153	
TD363-0190	19	20	101	153	
TD363-0195	19.5	20	101	153	
TD363-0200	20	20	101	153	

- ★ 適用於加工淬火鋼 (HRC60° 以下) 不鏽鋼、鈦合金、高溫合金、工具鋼、鑄鐵、耐磨塑料等材料
- ★ 高效率、高精度鑽削、耐磨、鑽頭壽命長



AlTiCrN
Hx



柄徑 : 3mm 刃徑精度 : 0/-0.005

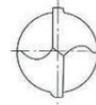
CODE	ขนาด	คูม กวด	ยาว	BAHT
TD420-00010	0.10	0.6	38	
TD420-00011	0.11	0.6	38	
TD420-00012	0.12	0.8	38	
TD420-00013	0.13	0.8	38	
TD420-00014	0.14	0.8	38	
TD420-00015	0.15	1	38	
TD420-00016	0.16	1	38	
TD420-00017	0.17	1	38	
TD420-00018	0.18	1.2	38	
TD420-00019	0.19	1.2	38	
TD420-00020	0.20	1.5	38	
TD420-00021	0.21	1.5	38	
TD420-00022	0.22	1.5	38	
TD420-00023	0.23	1.5	38	
TD420-00024	0.24	1.5	38	
TD420-00025	0.25	1.5	38	
TD420-00026	0.26	1.5	38	
TD420-00027	0.27	1.5	38	
TD420-00028	0.28	1.5	38	
TD420-00029	0.29	1.5	38	
TD420-00030	0.30	1.5	38	
TD420-00031	0.31	2	38	
TD420-00032	0.32	2	38	
TD420-00033	0.33	2	38	
TD420-00034	0.34	2	38	
TD420-00035	0.35	2	38	
TD420-00036	0.36	2	38	
TD420-00037	0.37	2	38	
TD420-00038	0.38	2	38	
TD420-00039	0.39	2.5	38	
TD420-00040	0.40	2.5	38	
TD420-00041	0.41	2.5	38	
TD420-00042	0.42	2.5	38	
TD420-00043	0.43	2.5	38	
TD420-00044	0.44	2.5	38	
TD420-00045	0.45	2.5	38	
TD420-00046	0.46	2.5	38	
TD420-00047	0.47	2.5	38	
TD420-00048	0.48	2.5	38	
TD420-00049	0.49	3	38	
TD420-00050	0.50	3	38	
TD420-00051	0.51	3	38	
TD420-00052	0.52	3	38	
TD420-00053	0.53	3	38	
TD420-00054	0.54	3.5	38	
TD420-00055	0.55	3.5	38	
TD420-00056	0.56	3.5	38	
TD420-00057	0.57	3.5	38	
TD420-00058	0.58	3.5	38	
TD420-00059	0.59	3.5	38	
TD420-00060	0.60	3.5	38	
TD420-00061	0.61	4	38	
TD420-00062	0.62	4	38	
TD420-00063	0.63	4	38	
TD420-00064	0.64	4	38	
TD420-00065	0.65	4	38	
TD420-00066	0.66	4	38	
TD420-00067	0.67	4	38	
TD420-00068	0.68	4.5	38	
TD420-00069	0.69	4.5	38	
TD420-00070	0.70	4.5	38	
TD420-00071	0.71	4.5	38	
TD420-00072	0.72	4.5	38	
TD420-00073	0.73	4.5	38	
TD420-00074	0.74	4.5	38	
TD420-00075	0.75	4.5	38	
TD420-00076	0.76	5	38	

CODE	ขนาด	คูม กวด	ยาว	BAHT
TD420-00077	0.77	5	38	
TD420-00078	0.78	5	38	
TD420-00079	0.79	5	38	
TD420-00080	0.80	5	38	
TD420-00081	0.81	5	38	
TD420-00082	0.82	5	38	
TD420-00083	0.83	5	38	
TD420-00084	0.84	5	38	
TD420-00085	0.85	5	38	
TD420-00086	0.86	5.5	38	
TD420-00087	0.87	5.5	38	
TD420-00088	0.88	5.5	38	
TD420-00089	0.89	5.5	38	
TD420-00090	0.90	5.5	38	
TD420-00091	0.91	5.5	38	
TD420-00092	0.92	5.5	38	
TD420-00093	0.93	5.5	38	
TD420-00094	0.94	5.5	38	
TD420-00095	0.95	5.5	38	
TD420-00096	0.96	6	38	
TD420-00097	0.97	6	38	
TD420-00098	0.98	6	38	
TD420-00099	0.99	6	38	
TD420-00100	1.00	6	38	
TD420-00101	1.01	6	38	
TD420-00102	1.02	6	38	
TD420-00103	1.03	6	38	
TD420-00104	1.04	6	38	
TD420-00105	1.05	6	38	
TD420-00106	1.06	6	38	
TD420-00107	1.07	7	42	
TD420-00108	1.08	7	42	
TD420-00109	1.09	7	42	
TD420-00110	1.10	7	42	
TD420-00111	1.11	7	42	
TD420-00112	1.12	7	42	
TD420-00113	1.13	7	42	
TD420-00114	1.14	7	42	
TD420-00115	1.15	7	42	
TD420-00116	1.16	7	42	
TD420-00117	1.17	7	42	
TD420-00118	1.18	7	42	
TD420-00119	1.19	8	42	
TD420-00120	1.20	8	42	
TD420-00121	1.21	8	42	
TD420-00122	1.22	8	42	
TD420-00123	1.23	8	42	
TD420-00124	1.24	8	42	
TD420-00125	1.25	8	42	
TD420-00126	1.26	8	42	
TD420-00127	1.27	8	42	
TD420-00128	1.28	8	42	
TD420-00129	1.29	8	42	
TD420-00130	1.30	8	42	
TD420-00131	1.31	8	42	
TD420-00132	1.32	8	42	
TD420-00133	1.33	9	42	
TD420-00134	1.34	9	42	
TD420-00135	1.35	9	42	
TD420-00136	1.36	9	42	
TD420-00137	1.37	9	42	
TD420-00138	1.38	9	42	
TD420-00139	1.39	9	42	
TD420-00140	1.40	9	42	
TD420-00141	1.41	9	42	
TD420-00142	1.42	9	42	
TD420-00143	1.43	9	42	

CODE	ขนาด	คูม กวด	ยาว	BAHT
TD420-00144	1.44	9	42	
TD420-00145	1.45	9	42	
TD420-00146	1.46	9	42	
TD420-00147	1.47	9	42	
TD420-00148	1.48	9	42	
TD420-00149	1.49	9	42	
TD420-00150	1.50	9	42	
TD420-00151	1.51	10	42	
TD420-00152	1.52	10	42	
TD420-00153	1.53	10	42	
TD420-00154	1.54	10	42	
TD420-00155	1.55	10	42	
TD420-00156	1.56	10	42	
TD420-00157	1.57	10	42	
TD420-00158	1.58	10	42	
TD420-00159	1.59	10	42	
TD420-00160	1.60	10	42	
TD420-00161	1.61	10	42	
TD420-00162	1.62	10	42	
TD420-00163	1.63	10	42	
TD420-00164	1.64	10	42	
TD420-00165	1.65	10	42	
TD420-00166	1.66	10	42	
TD420-00167	1.67	10	42	
TD420-00168	1.68	10	42	
TD420-00169	1.69	10	42	
TD420-00170	1.70	10	42	
TD420-00171	1.71	11	42	
TD420-00172	1.72	11	42	
TD420-00173	1.73	11	42	
TD420-00174	1.74	11	42	
TD420-00175	1.75	11	42	
TD420-00176	1.76	11	42	
TD420-00177	1.77	11	42	
TD420-00178	1.78	11	42	
TD420-00179	1.79	11	42	
TD420-00180	1.80	11	42	
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TD420-00188	1.88	11	42	
TD420-00189	1.89	11	42	
TD420-00190	1.90	11	42	
TD420-00191	1.91	12	50	
TD420-00192	1.92	12	50	
TD420-00193	1.93	12	50	
TD420-00194	1.94	12	50	
TD420-00195	1.95	12	50	
TD420-00196	1.96	12	50	
TD420-00197	1.97	12	50	
TD420-00198	1.98	12	50	
TD420-00199	1.99	12	50	
TD420-00200	2.00	12	50	



Gold-P Coated 刃端Tin塗層



Point Angle: 118°

公制 (STANDARD SIZE)

UNIT: mm

CODE	D	L2	L1	BAHT
TD110-00100	1.0	18	40	
TD110-00110	1.1	20	42	
TD110-00120	1.2	20	42	
TD110-00130	1.3	22	45	
TD110-00140	1.4	23	48	
TD110-00150	1.5	23	48	
TD110-00160	1.6	25	50	
TD110-00170	1.7	25	50	
TD110-00180	1.8	28	52	
TD110-00190	1.9	28	52	
TD110-00200	2.0	29	55	
TD110-00210	2.1	29	55	
TD110-00220	2.2	33	58	
TD110-00230	2.3	33	58	
TD110-00240	2.4	35	61	
TD110-00250	2.5	35	61	
TD110-00260	2.6	37	64	
TD110-00270	2.7	37	64	
TD110-00280	2.8	39	67	
TD110-00290	2.9	42	71	
TD110-00300	3.0	42	71	
TD110-00310	3.1	42	71	
TD110-00320	3.2	42	71	
TD110-00330	3.3	45	73	
TD110-00340	3.4	45	73	
TD110-00350	3.5	45	73	
TD110-00360	3.6	48	76	
TD110-00370	3.7	48	76	
TD110-00380	3.8	48	76	
TD110-00390	3.9	51	79	
TD110-00400	4.0	54	83	
TD110-00410	4.1	54	83	
TD110-00420	4.2	54	83	
TD110-00430	4.3	54	83	
TD110-00440	4.4	56	83	
TD110-00450	4.5	56	86	
TD110-00460	4.6	56	86	
TD110-00470	4.7	59	89	
TD110-00480	4.8	59	89	
TD110-00490	4.9	62	92	
TD110-00500	5.0	62	92	
TD110-00510	5.1	62	92	
TD110-00520	5.2	64	95	
TD110-00530	5.3	64	95	

CODE	D	L2	L1	BAHT
TD110-00540	5.4	64	95	
TD110-00550	5.5	64	95	
TD110-00560	5.6	67	98	
TD110-00570	5.7	67	98	
TD110-00580	5.8	67	98	
TD110-00590	5.9	67	98	
TD110-00600	6.0	70	102	
TD110-00610	6.1	70	102	
TD110-00620	6.2	70	102	
TD110-00630	6.3	70	102	
TD110-00640	6.4	73	105	
TD110-00650	6.5	73	105	
TD110-00660	6.6	73	105	
TD110-00670	6.7	73	105	
TD110-00680	6.8	73	105	
TD110-00690	6.9	73	105	
TD110-00700	7.0	73	105	
TD110-00710	7.1	75	108	
TD110-00720	7.2	75	108	
TD110-00730	7.3	75	108	
TD110-00740	7.4	78	111	
TD110-00750	7.5	78	111	
TD110-00760	7.6	78	111	
TD110-00770	7.7	81	114	
TD110-00780	7.8	81	114	
TD110-00790	7.9	81	114	
TD110-00800	8.0	81	114	
TD110-00810	8.1	84	117	
TD110-00820	8.2	84	117	
TD110-00830	8.3	84	117	
TD110-00840	8.4	87	121	
TD110-00850	8.5	87	121	
TD110-00860	8.6	87	121	
TD110-00870	8.7	87	121	
TD110-00880	8.8	89	124	
TD110-00890	8.9	89	124	
TD110-00900	9.0	89	124	
TD110-00910	9.1	89	124	
TD110-00920	9.2	92	127	
TD110-00930	9.3	92	127	
TD110-00940	9.4	92	127	
TD110-00950	9.5	92	127	
TD110-00960	9.6	95	130	
TD110-00970	9.7	95	130	

CODE	D	L2	L1	BAHT
TD110-00980	9.8	95	130	
TD110-00990	9.9	95	130	
TD110-01000	10.0	95	130	
TD110-01010	10.1	98	133	
TD110-01020	10.2	98	133	
TD110-01030	10.3	98	133	
TD110-01040	10.4	98	133	
TD110-01050	10.5	100	137	
TD110-01060	10.6	100	137	
TD110-01070	10.7	100	137	
TD110-01080	10.8	103	140	
TD110-01090	10.9	103	140	
TD110-01100	11.0	103	140	
TD110-01110	11.1	103	140	
TD110-01120	11.2	106	143	
TD110-01130	11.3	106	143	
TD110-01140	11.4	106	143	
TD110-01150	11.5	106	143	
TD110-01160	11.6	109	146	
TD110-01170	11.7	109	146	
TD110-01180	11.8	109	146	
TD110-01190	11.9	109	146	
TD110-01200	12.0	111	149	
TD110-01210	12.1	111	149	
TD110-01220	12.2	111	149	
TD110-01230	12.3	111	149	
TD110-01240	12.4	114	152	
TD110-01250	12.5	114	152	
TD110-01260	12.6	114	152	
TD110-01270	12.7	114	152	
TD110-01280	12.8	114	152	
TD110-01290	12.9	114	152	
TD110-01300	13.0	114	152	

公制 (STANDARD SIZE)

UNIT: Inch

CODE	D	L2	L1	BAHT
TD110-I003	3/64	3/4	1-3/4	
TD110-I004	1/16	7/8	1-7/8	
TD110-I005	5/64	1	2	
TD110-I006	3/32	1-1/4	2-1/4	
TD110-I007	7/64	1-1/2	2-5/8	
TD110-I008	1/8	1-5/8	2-3/4	
TD110-I009	9/64	1-3/4	2-7/8	
TD110-I010	5/32	2	3-1/8	
TD110-I011	11/64	2-1/8	3-1/4	
TD110-I012	3/16	2-5/16	3-1/2	

CODE	D	L2	L1	BAHT
TD110-I013	13/64	2-7/16	3-5/8	
TD110-I014	7/32	2-1/2	3-3/4	
TD110-I015	15/64	2-5/8	3-7/8	
TD110-I016	1/4	2-3/4	4	
TD110-I017	17/64	2-7/8	4-1/8	
TD110-I018	9/32	2-15/16	4-1/4	
TD110-I019	19/64	3-1/16	4-3/8	
TD110-I020	5/16	3-3/16	4-1/2	
TD110-I021	21/64	3-5/16	4-5/8	
TD110-I022	11/32	3-7/16	4-3/4	

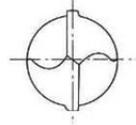
CODE	D	L2	L1	BAHT
TD110-I023	23/64	3-1/2	4-7/8	
TD110-I024	3/8	3-5/8	5	
TD110-I025	25/64	3-3/4	5-1/8	
TD110-I026	13/32	3-7/8	5-1/4	
TD110-I027	27/64	3-15/16	5-3/8	
TD110-I028	7/16	4-1/16	5-1/2	
TD110-I029	29/64	4-3/16	5-5/8	
TD110-I030	15/32	4-5/16	5-3/4	
TD110-I031	31/64	4-3/8	5-7/8	
TD110-I032	1/2	4-1/2	6	

適用於鑄鋼, 合金鋼, 非鐵合金, 灰鑄鐵, 石墨及可段鑄鐵.

包裝方式: 6.5mm(1/4") 或以下為10支一盒, 6.6mm-13mm(17/64" -1/2") 為5支一盒.



**SURFACE TREATMENT:
STEAM HOMO**



Point Angle: 118°

(STANDARD SIZE)

UNIT: mm

CODE	D	L2	L1	BAHT
TD120-00030	0.30	3.5	20	
TD120-00035	0.35	5.5	24	
TD120-00040	0.40	5.5	24	
TD120-00045	0.45	7.5	27	
TD120-00050	0.50	7.5	27	
TD120-00055	0.55	8.5	30	
TD120-00060	0.60	8.5	30	
TD120-00065	0.65	10	32	
TD120-00070	0.70	10	32	
TD120-00075	0.75	11	34	
TD120-00080	0.80	11	34	
TD120-00085	0.85	13	36	
TD120-00090	0.90	13	36	
TD120-00095	0.95	18	40	

CODE	D	L2	L1	BAHT
TD120-01350	13.5	108	160	
TD120-01400	14.0	108	160	
TD120-01450	14.5	114	169	
TD120-01500	15.0	114	169	
TD120-01550	15.5	120	178	
TD120-01600	16.0	120	178	
TD120-01650	16.5	125	184	
TD120-01700	17.0	125	184	
TD120-01750	17.5	130	191	
TD120-01800	18.0	130	191	
TD120-01850	18.5	135	198	
TD120-01900	19.0	135	198	
TD120-01950	19.5	140	205	
TD120-02000	20.0	140	205	

適用於鑄鋼, 合金鋼, 非鐵合金, 灰鑄鐵, 石墨及可段鑄鐵.

包裝方式: 6.5mm(1/4") 或以下為10支一盒, 6.6mm-13mm(17/64" - 1/2") 為5支一盒.



Point Angle: 118°

公制加長 (LONG SIZE)

UNIT: mm

CODE	D	L2	L1	BAHT
TD122-0010	1.0	33	56	
TD122-0011	1.1	37	60	
TD122-0012	1.2	41	65	
TD122-0013	1.3	41	65	
TD122-0014	1.4	45	70	
TD122-0015	1.5	45	70	
TD122-0016	1.6	50	76	
TD122-0017	1.7	50	76	
TD122-0018	1.8	53	80	
TD122-0019	1.9	53	80	
TD122-0020	2.0	56	85	
TD122-0021	2.1	56	85	
TD122-0022	2.2	59	90	
TD122-0023	2.3	59	90	
TD122-0024	2.4	62	95	
TD122-0025	2.5	62	95	
TD122-0026	2.6	62	95	
TD122-0027	2.7	66	100	
TD122-0028	2.8	66	100	
TD122-0029	2.9	66	100	
TD122-0030	3.0	66	100	
TD122-0031	3.1	69	106	
TD122-0032	3.2	69	106	
TD122-0033	3.3	69	106	
TD122-0034	3.4	73	112	
TD122-0035	3.5	73	112	
TD122-0036	3.6	73	112	
TD122-0037	3.7	73	112	
TD122-0038	3.8	78	119	
TD122-0039	3.9	78	119	
TD122-0040	4.0	78	119	
TD122-0041	4.1	78	119	
TD122-0042	4.2	78	119	
TD122-0043	4.3	82	126	

CODE	D	L2	L1	BAHT
TD122-0044	4.4	82	126	
TD122-0045	4.5	82	126	
TD122-0046	4.6	82	126	
TD122-0047	4.7	82	126	
TD122-0048	4.8	87	132	
TD122-0049	4.9	87	132	
TD122-0050	5.0	87	132	
TD122-0051	5.1	87	132	
TD122-0052	5.2	87	132	
TD122-0053	5.3	87	132	
TD122-0054	5.4	91	139	
TD122-0055	5.5	91	139	
TD122-0056	5.6	91	139	
TD122-0057	5.7	91	139	
TD122-0058	5.8	91	139	
TD122-0059	5.9	91	139	
TD122-0060	6.0	91	139	
TD122-0061	6.1	97	148	
TD122-0062	6.2	97	148	
TD122-0063	6.3	97	148	
TD122-0064	6.4	97	148	
TD122-0065	6.5	97	148	
TD122-0066	6.6	97	148	
TD122-0067	6.7	97	148	
TD122-0068	6.8	102	156	
TD122-0069	6.9	102	156	
TD122-0070	7.0	102	156	
TD122-0071	7.1	102	156	
TD122-0072	7.2	102	156	
TD122-0073	7.3	102	156	
TD122-0074	7.4	102	156	
TD122-0075	7.5	102	156	
TD122-0076	7.6	109	165	
TD122-0077	7.7	109	165	

CODE	D	L2	L1	BAHT
TD122-0078	7.8	109	165	
TD122-0079	7.9	109	165	
TD122-0080	8.0	109	165	
TD122-0081	8.1	109	165	
TD122-0082	8.2	109	165	
TD122-0083	8.3	109	165	
TD122-0084	8.4	109	165	
TD122-0085	8.5	109	165	
TD122-0086	8.6	115	175	
TD122-0087	8.7	115	175	
TD122-0088	8.8	115	175	
TD122-0089	8.9	115	175	
TD122-0090	9.0	115	175	
TD122-0091	9.1	115	175	
TD122-0092	9.2	115	175	
TD122-0093	9.3	115	175	
TD122-0094	9.4	115	175	
TD122-0095	9.5	115	175	
TD122-0096	9.6	121	184	
TD122-0097	9.7	121	184	
TD122-0098	9.8	121	184	
TD122-0099	9.9	121	184	
TD122-0100	10.0	121	184	
TD122-0105	10.5	121	184	
TD122-0110	11.0	128	195	
TD122-0115	11.5	128	195	
TD122-0120	12.0	134	205	
TD122-0125	12.5	134	205	
TD122-0130	13.0	134	205	
TD122-0140	14.0	140	214	
TD122-0150	15.0	144	220	
TD122-0160	16.0	149	227	
TD122-0170	17.0	154	235	
TD122-0180	18.0	158	241	

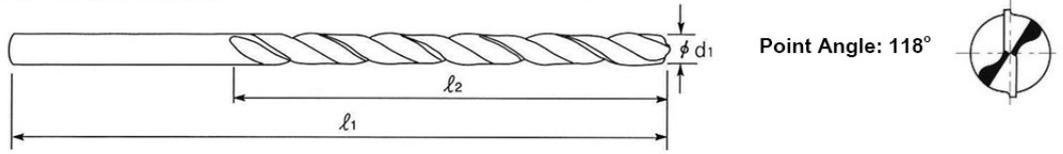
適用於鑄鋼, 合金鋼, 非鐵合金, 灰鑄鐵, 石墨及可段鑄鐵.

包裝方式: 6.5mm(1/4") 或以下為10支一盒, 6.6mm-13mm(17/64" - 1/2") 為5支一盒.

★ 請注意TD122系列1.0-1.99mm為光身.



SURFACE TREATMENT:
STEAM HOMO 表面: 氧化發黑處理



公制 (STANDARD SIZE)

UNIT: Inch

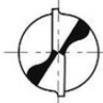
CODE	D	L2	L1	BAHT
TD122-I004	1/16	1-3/4	3	
TD122-I005	5/64	2	3-3/4	
TD122-I006	3/32	2-1/4	4-1/4	
TD122-I007	7/64	2-1/2	4-5/8	
TD122-I008	1/8	2-3/4	5-1/8	
TD122-I009	9/64	3	5-3/8	
TD122-I010	5/32	3	5-3/8	
TD122-I011	11/64	3-3/8	5-3/4	
TD122-I012	3/16	3-3/8	5-3/4	
TD122-I013	13/64	3-5/8	6	

CODE	D	L2	L1	BAHT
TD122-I014	7/32	3-5/8	6	
TD122-I015	15/64	3-3/4	6-1/8	
TD122-I016	1/4	3-3/4	6-1/8	
TD122-I017	17/64	3-7/8	6-1/4	
TD122-I018	9/32	3-7/8	6-1/4	
TD122-I019	19/64	4	6-3/8	
TD122-I020	5/16	4	6-3/8	
TD122-I021	21/64	4-1/8	6-1/2	
TD122-I022	11/32	4-1/8	6-1/2	
TD122-I023	23/64	4-1/4	6-3/4	

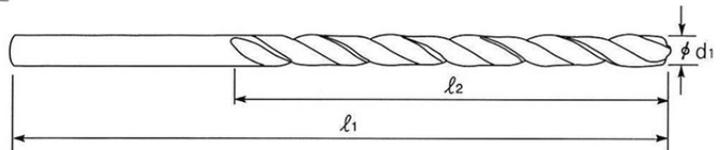
CODE	D	L2	L1	BAHT
TD122-I024	3/8	4-1/4	6-3/4	
TD122-I025	25/64	4-3/8	7	
TD122-I026	13/32	4-3/8	7	
TD122-I027	27/64	4-5/8	7-1/4	
TD122-I028	7/16	4-5/8	7-1/4	
TD122-I029	29/64	4-3/4	7-1/2	
TD122-I030	15/32	4-3/4	7-1/2	
TD122-I031	31/64	4-3/4	7-3/4	
TD122-I032	1/2	4-3/4	7-3/4	

包裝方式: 6.5mm(1/4") 或以下為10支一盒, 6.6mm-13mm(17/64" -1/2") 為5支一盒.

★請注意TD122系列1/16-5/64為光身.



Point Angle: 118°



公制特長(EXTRA LONG)

UNIT: mm

CODE	D	L2	L1	BAHT
TD124-020150	2.0	100	150	
TD124-025150	2.5	100	150	
TD124-025200	2.5	150	200	
TD124-030150	3.0	100	150	
TD124-030200	3.0	150	200	
TD124-035150	3.5	100	150	
TD124-035200	3.5	150	200	
TD124-040150	4.0	100	150	
TD124-040200	4.0	150	200	
TD124-040250	4.0	200	250	
TD124-045200	4.5	150	200	
TD124-045250	4.5	200	250	
TD124-050200	5.0	150	200	

CODE	D	L2	L1	BAHT
TD124-050250	5.0	200	250	
TD124-055200	5.5	150	200	
TD124-055250	5.5	200	250	
TD124-060200	6.0	150	200	
TD124-060250	6.0	200	250	
TD124-060300	6.0	200	300	
TD124-065200	6.5	150	200	
TD124-065250	6.5	200	250	
TD124-065300	6.5	200	300	
TD124-070200	7.0	150	200	
TD124-070250	7.0	200	250	
TD124-070300	7.0	200	300	
TD124-080200	8.0	150	200	

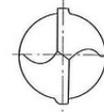
CODE	D	L2	L1	BAHT
TD124-080250	8.0	200	250	
TD124-080300	8.0	200	300	
TD124-090250	9.0	200	250	
TD124-090300	9.0	200	300	
TD124-100250	10	200	250	
TD124-100300	10	200	300	
TD124-100350	10	250	350	
TD124-120250	12	200	250	
TD124-120300	12	200	300	
TD124-120350	12	250	350	
TD124-130250	13	200	250	
TD124-130300	13	200	300	
TD124-130350	13	250	350	

適用於鑄鋼, 合金鋼, 非鐵合金, 灰鑄鐵, 石墨 及 可段鑄鐵.

包裝方式: 8mm(5/16") 或以下為5支一盒



Gold-P Coated 刃端Tin塗層



Point Angle: 135°

公制 (STANDARD SIZE)

UNIT: mm

CODE	D	L2	L1	BAHT
TD130-0010	1.0	18	40	
TD130-0011	1.1	20	42	
TD130-0012	1.2	20	42	
TD130-0013	1.3	22	45	
TD130-0014	1.4	23	48	
TD130-0015	1.5	23	48	
TD130-0016	1.6	25	50	
TD130-0017	1.7	25	50	
TD130-0018	1.8	28	52	
TD130-0019	1.9	28	52	
TD130-0020	2.0	29	55	
TD130-0021	2.1	29	55	
TD130-0022	2.2	33	58	
TD130-0023	2.3	33	58	
TD130-0024	2.4	35	61	
TD130-0025	2.5	35	61	
TD130-0026	2.6	37	64	
TD130-0027	2.7	37	64	
TD130-0028	2.8	39	67	
TD130-0029	2.9	42	71	
TD130-0030	3.0	42	71	
TD130-0031	3.1	42	71	
TD130-0032	3.2	42	71	
TD130-0033	3.3	45	73	
TD130-0034	3.4	45	73	
TD130-0035	3.5	45	73	
TD130-0036	3.6	48	76	
TD130-0037	3.7	48	76	
TD130-0038	3.8	48	76	
TD130-0039	3.9	51	79	
TD130-0040	4.0	54	83	
TD130-0041	4.1	54	83	
TD130-0042	4.2	54	83	
TD130-0043	4.3	54	83	
TD130-0044	4.4	56	86	
TD130-0045	4.5	56	86	
TD130-0046	4.6	56	86	
TD130-0047	4.7	59	89	
TD130-0048	4.8	59	89	
TD130-0049	4.9	62	92	
TD130-0050	5.0	62	92	
TD130-0051	5.1	62	92	
TD130-0052	5.2	64	95	
TD130-0053	5.3	64	95	
TD130-0054	5.4	64	95	
TD130-0055	5.5	64	95	
TD130-0056	5.6	67	98	
TD130-0057	5.7	67	98	
TD130-0058	5.8	67	98	
TD130-0059	5.9	67	98	
TD130-0060	6.0	70	102	
TD130-0061	6.1	70	102	
TD130-0062	6.2	70	102	
TD130-0063	6.3	70	102	
TD130-0064	6.4	73	105	
TD130-0065	6.5	73	105	
TD130-0066	6.6	73	105	
TD130-0067	6.7	73	105	
TD130-0068	6.8	73	105	

CODE	D	L2	L1	BAHT
TD130-0069	6.9	73	105	
TD130-0070	7.0	73	105	
TD130-0071	7.1	75	108	
TD130-0072	7.2	75	108	
TD130-0073	7.3	75	108	
TD130-0074	7.4	78	111	
TD130-0075	7.5	78	111	
TD130-0076	7.6	78	111	
TD130-0077	7.7	81	114	
TD130-0078	7.8	81	114	
TD130-0079	7.9	81	114	
TD130-0080	8.0	81	114	
TD130-0081	8.1	84	117	
TD130-0082	8.2	84	117	
TD130-0083	8.3	84	117	
TD130-0084	8.4	87	121	
TD130-0085	8.5	87	121	
TD130-0086	8.6	87	121	
TD130-0087	8.7	87	121	
TD130-0088	8.8	89	124	
TD130-0089	8.9	89	124	
TD130-0090	9.0	89	124	
TD130-0091	9.1	89	124	
TD130-0092	9.2	92	127	
TD130-0093	9.3	92	127	
TD130-0094	9.4	92	127	
TD130-0095	9.5	92	127	
TD130-0100	10.0	95	130	
TD130-0101	10.1	98	133	
TD130-0102	10.2	98	133	
TD130-0103	10.3	98	133	
TD130-0104	10.4	98	133	
TD130-0105	10.5	100	137	
TD130-0106	10.6	100	137	
TD130-0107	10.7	100	137	
TD130-0108	10.8	103	140	
TD130-0109	10.9	103	140	
TD130-0110	11.0	103	140	
TD130-0111	11.1	103	140	
TD130-0112	11.2	106	143	
TD130-0113	11.3	106	143	
TD130-0114	11.4	106	143	
TD130-0115	11.5	106	143	
TD130-0116	11.6	109	146	
TD130-0117	11.7	109	146	
TD130-0118	11.8	109	146	
TD130-0119	11.9	109	146	
TD130-0120	12.0	111	149	
TD130-0121	12.1	111	149	
TD130-0122	12.2	111	149	
TD130-0123	12.3	111	149	
TD130-0124	12.4	114	152	
TD130-0125	12.5	114	152	
TD130-0126	12.6	114	152	
TD130-0127	12.7	114	152	
TD130-0128	12.8	114	152	
TD130-0129	12.9	114	152	
TD130-0130	13.0	114	152	

適用於不銹鋼和類似鈦、鎢鎳鐵合金等難加工材料的鑽削。

包裝方式: 6.5mm(1/4") 或以下為10支一盒, 6.6mm-13mm(17/64" -1/2") 為5支一盒。



HSS-E CHUCKING REAMERS

公制

刃徑公差: H7



CODE	ขนาด	ก้าน	คมกัด	ยาว	BAHT
RM100-0015	1.5	1.5	8	40	
RM100-0020	2.0	2.0	11	49	
RM100-0025	2.5	2.5	14	57	
RM100-0030	3.0	3.0	15	61	
RM100-0035	3.5	3.5	18	70	
RM100-0040	4.0	4.0	19	75	
RM100-0045	4.5	4.5	21	80	
RM100-0050	5.0	5.0	23	86	
RM100-0055	5.5	5.6	26	93	
RM100-0060	6.0	5.6	26	93	
RM100-0065	6.5	6.3	28	101	
RM100-0070	7.0	7.1	31	109	
RM100-0075	7.5	7.1	31	109	
RM100-0080	8.0	8.0	33	117	
RM100-0085	8.5	8.0	33	117	
RM100-0090	9.0	9.0	36	125	
RM100-0095	9.5	9.0	36	125	
RM100-0100	10	10	38	133	
RM100-0105	10.5	10	38	133	
RM100-0110	11	10	41	142	
RM100-0115	11.5	10	41	142	
RM100-0120	12	10	44	151	
RM100-0125	12.5	10	44	151	
RM100-0130	13	10	44	151	
RM100-0140	14	12.5	47	160	
RM100-0150	15	12.5	50	162	
RM100-0160	16	12.5	52	170	
RM100-0170	17	14	54	175	
RM100-0180	18	14	54	182	
RM100-0190	19	16	58	189	
RM100-0200	20	16	60	195	

CODE	ขนาด	ก้าน	คมกัด	ยาว	BAHT
RM100-I004	1/16	1/16	9	43	
RM100-I005	5/64	5/64	11	49	
RM100-I006	3/32	3/32	14	57	
RM100-I007	7/64	7/64	15	61	
RM100-I008	1/8	1/8	16	65	
RM100-I009	9/64	9/64	18	70	
RM100-I010	5/32	4	19	75	
RM100-I011	11/64	4.5	21	80	
RM100-I012	3/16	5	23	86	
RM100-I013	13/64	5	23	86	
RM100-I014	7/32	5.6	26	93	
RM100-I015	15/64	5.6	26	93	
RM100-I016	1/4	6.3	28	101	
RM100-I017	17/64	7.1	31	109	
RM100-I018	9/32	7.1	31	109	
RM100-I019	19/64	8	33	117	
RM100-I020	5/16	8	33	117	
RM100-I021	11/64	8	33	117	
RM100-I022	11/32	9	36	125	
RM100-I023	23/64	9	36	125	
RM100-I024	3/8	10	38	133	
RM100-I028	7/16	10	41	142	
RM100-I032	1/2	10	44	151	
RM100-I040	5/8	12.5	52	170	
RM100-I048	3/4	16	60	195	

鈷高速鋼高螺旋機械鉸刀 (螺旋角45°)

HSS-E CHUCKING REAMERS-LH SPIRAL FLUTES(QUICK SPIRAL)



刃徑公差: H7

CODE	ขนาด	ก้าน	คมกัด	ยาว	BAHT
RM130-0040	4.0	4	19	75	
RM130-0045	4.5	4.5	21	80	
RM130-0050	5.0	5	23	86	
RM130-0055	5.5	5.6	26	93	
RM130-0060	6.0	5.6	26	93	
RM130-0065	6.5	6.3	28	101	
RM130-0070	7.0	7.1	31	109	
RM130-0080	8.0	8	33	117	
RM130-0085	8.5	8	33	117	
RM130-0090	9.0	9	36	125	
RM130-0095	9.5	9	36	125	

CODE	ขนาด	ก้าน	คมกัด	ยาว	BAHT
RM130-0100	10.0	10	38	133	
RM130-0110	11.0	10	41	142	
RM130-0120	12.0	10	44	151	
RM130-0130	13.0	10	44	151	
RM130-0140	14.0	12.5	47	160	
RM130-0150	15.0	12.5	50	162	
RM130-0160	16.0	12.5	52	170	
RM130-0170	17.0	14	54	175	
RM130-0180	18.0	14	56	182	
RM130-0190	19.0	16	58	189	
RM130-0200	20.0	16	60	195	



HSS HAND REAMERS



公制

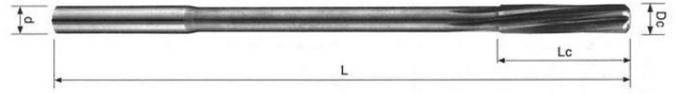
刃徑公差: H7

CODE	ขนาด	คมกััด	ยาว	BAHT
RM120-0015	1.5	20	41	
RM120-0020	2.0	25	50	
RM120-0025	2.5	29	58	
RM120-0030	3.0	31	62	
RM120-0035	3.5	35	71	
RM120-0040	4.0	38	76	
RM120-0045	4.5	41	81	
RM120-0050	5.0	44	87	
RM120-0055	5.5	47	93	
RM120-0060	6.0	47	93	
RM120-0065	6.5	50	100	
RM120-0070	7.0	54	107	
RM120-0075	7.5	54	107	
RM120-0080	8.0	58	115	
RM120-0085	8.5	58	115	
RM120-0090	9.0	62	124	
RM120-0095	9.5	62	124	
RM120-0100	10	66	133	
RM120-0105	10.5	66	133	
RM120-0110	11	71	142	
RM120-0115	11.5	71	142	
RM120-0120	12	76	152	
RM120-0125	12.5	76	152	
RM120-0130	13	76	152	
RM120-0140	14	81	163	
RM120-0150	15	81	163	
RM120-0160	16	87	175	
RM120-0170	17	87	175	
RM120-0180	18	93	188	
RM120-0190	19	93	188	
RM120-0200	20	100	201	
RM120-0210	21	100	201	
RM120-0220	22	107	215	
RM120-0230	23	107	215	
RM120-0240	24	115	231	
RM120-0250	25	115	231	

CODE	ขนาด	คมกััด	ยาว	BAHT
RM120-I004	1/16	1/16	21	44
RM120-I005	5/64	5/64	25	50
RM120-I006	3/32	3/32	29	58
RM120-I007	7/64	7/64	31	62
RM120-I008	1/8	1/8	33	66
RM120-I009	9/64	9/64	35	71
RM120-I010	5/32	5/32	38	76
RM120-I011	11/64	11/64	41	81
RM120-I012	3/16	3/16	44	87
RM120-I013	13/64	13/64	44	87
RM120-I014	7/32	7/32	47	93
RM120-I015	15/64	15/64	47	93
RM120-I016	1/4	1/4	50	100
RM120-I017	17/64	17/64	54	107
RM120-I018	9/32	9/32	54	107
RM120-I019	19/64	19/64	58	115
RM120-I020	5/16	5/16	58	115
RM120-I021	21/64	21/64	58	115
RM120-I022	11/32	11/32	62	124
RM120-I023	23/64	23/64	62	124
RM120-I024	3/8	3/8	66	133
RM120-I028	7/16	7/16	71	142
RM120-I032	1/2	1/2	76	152
RM120-I040	5/8	5/8	87	175
RM120-I048	3/4	3/4	100	201
RM120-I056	7/8	7/8	107	215
RM120-I100	1"	1"	115	231



刃徑公差: H7



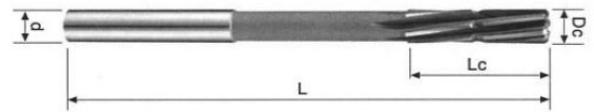
刃徑公差: H7

加長柄

CODE	Dc	d	Lc	L	BAHT
RM310-0020	2.0	2.0	11	49	
RM310-0025	2.5	2.5	14	57	
RM310-0030	3.0	3.0	15	61	
RM310-0035	3.5	3.5	18	70	
RM310-0040	4.0	4.0	19	75	
RM310-0045	4.5	4.5	21	80	
RM310-0050	5.0	5.0	23	86	
RM310-0055	5.5	5.5	26	93	
RM310-0060	6.0	6.0	26	93	
RM310-0065	6.5	6.5	28	101	
RM310-0070	7.0	7.0	31	109	
RM310-0075	7.5	7.5	31	109	
RM310-0080	8.0	8.0	33	117	
RM310-0085	8.5	8.5	33	117	
RM310-0090	9.0	9.0	36	125	
RM310-0095	9.5	9.5	36	125	
RM310-0100	10	10	38	133	
RM310-0105	10.5	10	38	133	
RM310-0110	11	10	41	142	
RM310-0115	11.5	10	41	142	
RM310-0120	12	10	44	151	
RM310-0125	12.5	10	44	151	
RM310-0130	13	10	44	151	
RM310-0135	13.5	12.5	47	160	
RM310-0140	14	12.5	47	160	
RM310-0145	14.5	12.5	50	162	
RM310-0150	15	12.5	50	162	
RM310-0155	15.5	12.5	52	170	
RM310-0160	16	12.5	52	170	
RM310-0170	17	14	54	175	
RM310-0180	18	14	56	182	
RM310-0190	19	16	58	189	
RM310-0200	20	16	60	195	

CODE	Dc	d	Lc	L	BAHT
RM311-0030	3.0	3	15	100	
RM311-0035	3.5	3.5	18	112	
RM311-0040	4.0	4	19	119	
RM311-0045	4.5	4.5	21	126	
RM311-0050	5.0	5	23	132	
RM311-0060	6.0	6	26	139	
RM311-0070	7.0	7	31	156	
RM311-0080	8.0	8	33	165	
RM311-0090	9.0	9	36	175	
RM311-0100	10	10	38	184	
RM311-0110	11	10	41	195	
RM311-0120	12	10	44	205	
RM311-0130	13	10	44	205	
RM311-0140	14	12.5	47	214	
RM311-0150	15	12.5	50	220	
RM311-0160	16	12.5	52	227	
RM311-0170	17	14	54	235	
RM311-0180	18	14	56	241	
RM311-0190	19	16	58	247	
RM311-0200	20	16	60	254	

焊刃式



RM310, 311 2.0-9.5mm 整支鎢鋼
10-20mm 焊刃鎢鋼



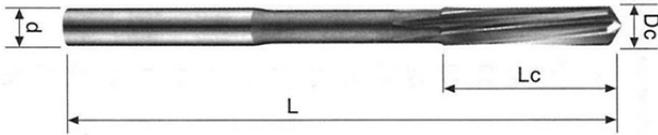
高精度

刃徑公差:+0.003/-0

刃徑公差:+0.003/-0

CODE	Dc	d	Lc	L	BAHT
RM320-0297	2.97	3	15	61	
RM320-0298	2.98	3	15	61	
RM320-0299	2.99	3	15	61	
RM320-0300	3	3	15	61	
RM320-0301	3.01	3	15	61	
RM320-0302	3.02	3	15	61	
RM320-0303	3.03	3	15	61	
RM320-0397	3.97	4	19	75	
RM320-0398	3.98	4	19	75	
RM320-0399	3.99	4	19	75	
RM320-0400	4	4	19	75	
RM320-0401	4.01	4	19	75	
RM320-0402	4.02	4	19	75	
RM320-0403	4.03	4	19	75	
RM320-0497	4.97	5	23	86	
RM320-0498	4.98	5	23	86	
RM320-0499	4.99	5	23	86	
RM320-0500	5	5	23	86	
RM320-0501	5.01	5	23	86	
RM320-0502	5.02	5	23	86	
RM320-0503	5.03	5	23	86	
RM320-0597	5.97	6	26	93	
RM320-0598	5.98	6	26	93	
RM320-0599	5.99	6	26	93	
RM320-0600	6	6	26	93	

CODE	Dc	d	Lc	L	BAHT
RM320-0601	6.01	6	26	93	
RM320-0602	6.02	6	26	93	
RM320-0603	6.03	6	26	93	
RM320-0797	7.97	8	33	117	
RM320-0798	7.98	8	33	117	
RM320-0799	7.99	8	33	117	
RM320-0800	8	8	33	117	
RM320-0801	8.01	8	33	117	
RM320-0802	8.02	8	33	117	
RM320-0803	8.03	8	33	117	
RM320-0997	9.97	10	38	133	
RM320-0998	9.98	10	38	133	
RM320-0999	9.99	10	38	133	
RM320-1000	10	10	38	133	
RM320-1001	10.01	10	38	133	
RM320-1002	10.02	10	38	133	
RM320-1003	10.03	10	38	133	
RM320-1197	11.97	12	44	151	
RM320-1198	11.98	12	44	151	
RM320-1199	11.99	12	44	151	
RM320-1200	12	12	44	151	
RM320-1201	12.01	12	44	151	
RM320-1202	12.02	12	44	151	
RM320-1203	12.03	12	44	151	



直柄 (STRAIGHT SHANK)

刃徑公差: H7

CODE	Dc/d	Lc	L	BAHT
RM340-0010	1.0	6	34	
RM340-0011	1.1	7	36	
RM340-0012	1.2	7	38	
RM340-0013	1.3	7	38	
RM340-0014	1.4	8	40	
RM340-0015	1.5	8	40	
RM340-0016	1.6	9	43	
RM340-0017	1.7	9	43	
RM340-0018	1.8	10	46	
RM340-0019	1.9	10	46	
RM340-0020	2.0	11	49	
RM340-0021	2.1	11	49	
RM340-0022	2.2	12	53	
RM340-0023	2.3	12	53	
RM340-0024	2.4	14	57	
RM340-0025	2.5	14	57	
RM340-0026	2.6	14	57	
RM340-0027	2.7	15	61	
RM340-0028	2.8	15	61	
RM340-0029	2.9	15	61	
RM340-0030	3.0	15	61	
RM340-0031	3.1	16	65	
RM340-0032	3.2	16	65	
RM340-0033	3.3	16	65	
RM340-0034	3.4	18	70	
RM340-0035	3.5	18	70	
RM340-0036	3.6	18	70	
RM340-0037	3.7	18	70	
RM340-0038	3.8	19	75	
RM340-0039	3.9	19	75	
RM340-0040	4.0	19	75	
RM340-0041	4.1	19	75	
RM340-0042	4.2	19	75	
RM340-0043	4.3	21	80	
RM340-0044	4.4	21	80	
RM340-0045	4.5	21	80	
RM340-0046	4.6	21	80	
RM340-0047	4.7	21	80	
RM340-0048	4.8	23	86	
RM340-0049	4.9	23	86	
RM340-0050	5.0	23	86	
RM340-0051	5.1	23	86	
RM340-0052	5.2	23	86	
RM340-0053	5.3	23	86	
RM340-0054	5.4	26	93	
RM340-0055	5.5	26	93	
RM340-0056	5.6	26	93	
RM340-0057	5.7	26	93	
RM340-0058	5.8	26	93	
RM340-0059	5.9	26	93	
RM340-0060	6.0	26	93	
RM340-0061	6.1	28	101	
RM340-0062	6.2	28	101	
RM340-0063	6.3	28	101	
RM340-0064	6.4	28	101	
RM340-0065	6.5	28	101	

CODE	Dc/d	Lc	L	BAHT
RM340-0066	6.6	28	101	
RM340-0067	6.7	31	101	
RM340-0068	6.8	31	109	
RM340-0069	6.9	31	109	
RM340-0070	7.0	31	109	
RM340-0071	7.1	31	109	
RM340-0072	7.2	31	109	
RM340-0073	7.3	31	109	
RM340-0074	7.4	31	109	
RM340-0075	7.5	31	109	
RM340-0076	7.6	33	117	
RM340-0077	7.7	33	117	
RM340-0078	7.8	33	117	
RM340-0079	7.9	33	117	
RM340-0080	8.0	33	117	
RM340-0081	8.1	33	117	
RM340-0082	8.2	33	117	
RM340-0083	8.3	33	117	
RM340-0084	8.4	33	117	
RM340-0085	8.5	33	117	
RM340-0086	8.6	36	125	
RM340-0087	8.7	36	125	
RM340-0088	8.8	36	125	
RM340-0089	8.9	36	125	
RM340-0090	9.0	36	125	
RM340-0091	9.1	36	125	
RM340-0092	9.2	36	125	
RM340-0093	9.3	36	125	
RM340-0094	9.4	36	125	
RM340-0095	9.5	36	125	
RM340-0096	9.6	38	133	
RM340-0097	9.7	38	133	
RM340-0098	9.8	38	133	
RM340-0099	9.9	38	133	
RM340-0100	10	38	133	
RM340-0101	10.1	38	133	
RM340-0102	10.2	38	133	
RM340-0103	10.3	38	133	
RM340-0104	10.4	38	133	
RM340-0105	10.5	38	133	
RM340-0106	10.6	38	133	
RM340-0107	10.7	41	142	
RM340-0108	10.8	41	142	
RM340-0109	10.9	41	142	
RM340-0110	11	41	142	
RM340-0111	11.1	41	142	
RM340-0112	11.2	41	142	
RM340-0113	11.3	41	142	
RM340-0114	11.4	41	142	
RM340-0115	11.5	41	142	
RM340-0116	11.6	41	142	
RM340-0117	11.7	41	142	
RM340-0118	11.8	41	142	
RM340-0119	11.9	44	151	
RM340-0120	12	44	151	



HSS HAND TAPS (3pcs/set)



CODE	SIZE	BAHT
T102-005	M2 X 0.4	
T102-010	M2.2 X 0.45	
T102-015	M2.3 X 0.4	
T102-020	M2.5 X 0.45	
T102-025	M2.6 X 0.45	
T102-030	M3 X 0.5	
T102-040	M3.5 X 0.6	
T102-050	M4 X 0.7	
T102-055	M4 X 0.5	
T102-060	M4.5 X 0.75	
T102-070	M5 X 0.8	
T102-075	M5 X 0.5	
T102-085	M6 X 1.0	
T102-090	M6 X 0.75	

CODE	SIZE	BAHT
T102-095	M6 X 0.5	
T102-100	M7 X 1.0	
T102-110	M8 X 1.25	
T102-115	M8 X 1.0	
T102-140	M10 X 1.5	
T102-145	M10 X 1.25	
T102-150	M10 X 1.0	
T102-175	M12 X 1.75	
T102-180	M12 X 1.5	
T102-185	M12 X 1.25	
T102-190	M12 X 1.0	
T102-195	M14 X 2.0	
T102-200	M14 X 1.5	
T102-225	M16 X 2.0	

CODE	SIZE	BAHT
T102-230	M16 X 1.5	
T102-240	M18 X 2.5	
T102-250	M18 X 1.5	
T102-260	M20 X 2.5	
T102-265	M20 X 2.0	
T102-270	M20 X 1.5	
T102-280	M22 X 2.5	
T102-290	M22 X 1.5	
T102-300	M24 X 3.0	
T102-345	M27 X 3.0	
T102-370	M30 X 3.5	
T102-395	M33 X 3.5	
T102-420	M36 X 4.0	

CODE	SIZE	BAHT
T102-505	1/8 - W40	
T102-510	5/32 -W32	
T102-515	3/16 - W24	
T102-520	1/4 - W20	
T102-525	5/16 - W18	
T102-530	3/8 - W16	
T102-535	7/16 - W14	

CODE	SIZE	BAHT
T102-540	1/2 - W12	
T102-545	9/16 - W12	
T102-550	5/8 - W11	
T102-555	3/4 - W10	
T102-560	7/8 - W8	
T102-565	1" - W8	
T102-615	#4-40UNC	

CODE	SIZE	BAHT
T102-625	#5-40UNC	
T102-635	#6-32UNC	
T102-645	#8-32UNC	
T102-655	#10-24UNC	
T102-660	#10-32UNF	
T102-665	#12-24UNC	

HSS STRAIGHT PIPE TAPS



PF

CODE	SIZE	BAHT
T195-010	PF 1/8 – 28	
T195-015	PF 1/4 – 19	
T195-020	PF 3/8 – 19	
T195-025	PF 1/2 – 14	
T195-030	PF 3/4 – 14	
T195-035	PF 1" – 11	
T195-040	PF 1-1/4 – 11	
T195-045	PF 1-1/2 – 11	

PT

CODE	SIZE	BAHT
T192-010	PT 1/8–28	
T192-015	PT 1/4 – 19	
T192-020	PT 3/8 – 19	
T192-025	PT 1/2 – 14	
T192-030	PT 3/4 – 14	
T192-035	PT 1" – 11	
T192-040	PT 1-1/4 – 11	
T192-045	PT 1-1/2 – 11	

NPS

CODE	SIZE	BAHT
T193-010	NPS 1/8 – 27	
T193-015	NPS 1/4 – 18	
T193-020	NPS 3/8 – 18	
T193-025	NPS 1/2 – 14	
T193-030	NPS 3/4 – 14	
T193-035	NPS 1" – 11-1/2	

NPT

CODE	SIZE	BAHT
T194-010	NPT 1/8 – 27	
T194-015	NPT 1/4 – 18	
T194-020	NPT 3/8 – 18	
T194-025	NPT 1/2 – 14	
T194-030	NPT 3/4 – 14	
T194-035	NPT 1" – 11-1/2	

PS(BSPF)

2psc/set

CODE	SIZE	BAHT
T191-010	PS 1/8 – 28	
T191-015	PS 1/4 – 19	
T191-020	PS 3/8 – 19	
T191-025	PS 1/2 – 14	
T191-030	PS 3/4 – 14	
T191-035	PS 1" – 11	



SPIRAL FLUTED TAPS FOR GENERAL PURPOSE

★ ตีปเครื่องเกลียวสว่าน รุ่นใช้ทั่วไป



CODE	SIZE	คมกััด	ยาว	BAHT
T114-005	M2 X 0.4	15	40	
T114-010	M2.2 X 0.45	15	42	
T114-015	M2.3 X 0.4	15	42	
T114-020	M2.5 X 0.45	16	44	
T114-025	M2.6 X 0.45	16	44	
T114-030	M3 X 0.5	18	46	
T114-035	M3 X 0.35	18	46	
T114-040	M3.5 X 0.6	18	48	
T114-050	M4 X 0.7	20	52	
T114-055	M4 X 0.5	20	52	
T114-060	M4.5 X 0.75	20	55	
T114-070	M5 X 0.8	22	60	
T114-075	M5 X 0.5	22	60	
T114-085	M6 X 1	24	62	
T114-090	M6 X 0.75	24	62	
T114-095	M6 X 0.5	22	60	
T114-100	M7 X 1	26	65	
T114-110	M8 X 1.25	30	70	
T114-115	M8 X 1	30	70	
T114-120	M8 X 0.75	26	65	
T114-125	M9 X 1.25	30	72	
T114-140	M10 X 1.5	32	75	
T114-145	M10 X 1.25	32	75	
T114-150	M10 X 1	30	70	
T114-155	M10 X 0.75	26	65	
T114-175	M12 X 1.75	38	82	
T114-180	M12 X 1.5	38	82	
T114-185	M12 X 1.25	38	80	
T114-190	M12 X 1	30	70	
T114-195	M14 X 2	42	88	
T114-200	M14 X 1.5	42	88	
T114-205	M14 X 1.25	38	80	
T114-210	M14 X 1	30	70	
T114-215	M15 X 1.5	42	90	
T114-220	M15 X 1	30	70	

CODE	SIZE	คมกััด	ยาว	BAHT
T114-225	M16 X 2	45	95	
T114-230	M16 X 1.5	45	95	
T114-235	M16 X 1	30	70	
T114-240	M18 X 2.5	48	100	
T114-245	M18 X 2	45	95	
T114-250	M18 X 1.5	45	95	
T114-255	M18 X 1	30	80	
T114-260	M20 X 2.5	50	105	
T114-265	M20 X 2	45	95	
T114-270	M20 X 1.5	45	95	
T114-275	M20 X 1	30	80	
T114-280	M22 X 2.5	55	115	
T114-290	M22 X 1.5	55	115	
T114-295	M22 X 1	30	85	
T114-300	M24 X 3	58	120	
T114-305	M24 X 2	45	95	
T114-310	M24 X 1.5	45	95	
T114-315	M24 X 1	30	90	
T114-325	M25 X 1.5	45	95	
T114-335	M26 X 1.5	45	95	
T114-340	M26 X 1	30	95	
T114-345	M27 X 3	62	130	
T114-350	M27 X 2	45	95	
T114-355	M27 X 1.5	45	95	
T114-365	M28 X 1.5	45	105	
T114-370	M30 X 3.5	65	135	
T114-380	M30 X 2	45	105	
T114-385	M30 X 1.5	45	105	
T114-390	M30 X 1	30	105	
T114-395	M33 X 3.5	70	145	
T114-405	M33 X 2.0	45	110	
T114-410	M33 X 1.5	45	110	
T114-415	M36 X 4	75	155	
T114-425	M36 X 2	45	110	
T114-430	M36 X 1.5	45	110	

CODE	SIZE	คมกััด	ยาว	BAHT
T114-505	1/8 – W40	18	46	
T114-510	5/32 – W32	18	48	
T114-515	3/16 – W24	22	60	
T114-520	1/4 – W20	24	62	
T114-525	5/16 – W18	30	70	
T114-530	3/8 – W16	35	75	
T114-535	7/16 – W14	38	80	
T114-540	1/2 – W12	42	85	
T114-545	9/16 – W12	42	90	
T114-550	5/8 – W11	45	95	
T114-555	3/4 – W10	50	105	

CODE	SIZE	คมกััด	ยาว	BAHT
T114-560	7/8 – W9	55	115	
T114-565	1" – W8	60	125	
T114-605	#2-56UNC	15	42	
T114-615	#4-40UNC	16	44	
T114-625	#5-40UNC	18	46	
T114-635	#6-32UNC	18	48	
T114-645	#8-32UNC	20	52	
T114-655	#10-24UNC	22	60	
T114-660	#10-32UNF	22	60	
T114-665	#12-24UNC	22	60	

**SPIRAL FLUTED TAPS FOR DEEP HOLES
 (FOR GENERAL PURPOSE)**



CODE	SIZE	คมกััด	ยาว	BAHT
T115-005	M2 X 0.4	4	40	
T115-020	M2.5 X 0.45	4.5	44	
T115-030	M3 X 0.5	5	46	
T115-050	M4 X 0.7	7	52	
T115-070	M5 X 0.8	8	60	
T115-085	M6 X 1	10	62	
T115-110	M8 X 1.25	12.5	70	

CODE	SIZE	คมกััด	ยาว	BAHT
T115-140	M10 X 1.5	15	75	
T115-175	M12 X 1.75	17.5	82	
T115-195	M14 X 2	20	88	
T115-225	M16 X 2	20	95	
T115-240	M18 X 2.5	25	100	
T115-260	M20 X 2.5	25	105	



SPIRAL FLUTED TAPS FOR NON-FERROUS METALS

★ ตีแปเครื่องเกลียวสว่าน สำหรับตีแปโลหะที่ไม่ใช่เหล็ก (เช่น ทองแดง,อลูมิเนียม)



材質: HSS-EX

CODE	SIZE	คมกัด	ยาว	BAHT
T112-005	M2 X 0.4	15	40	
T112-010	M2.2 X 0.45	15	42	
T112-020	M2.5 X 0.45	16	44	
T112-025	M2.6 X 0.45	16	44	
T112-030	M3 X 0.5	18	46	
T112-040	M3.5 X 0.6	18	48	
T112-050	M4 X 0.7	20	52	
T112-070	M5 X 0.8	22	60	
T112-085	M6 X 1.0	24	62	
T112-110	M8 X 1.25	30	70	

CODE	SIZE	คมกัด	ยาว	BAHT
T112-140	M10 X 1.5	32	75	
T112-175	M12 X 1.75	38	82	
T112-195	M14 X 2.0	42	88	
T112-225	M16 X 2.0	45	95	
T112-240	M18 X 2.5	48	100	
T112-260	M20 X 2.5	50	105	
T112-280	M22 X 2.5	55	115	
T112-300	M24 X 3.0	58	120	
T112-345	M27 X 3.0	62	135	
T112-370	M30 X 3.5	65	135	

CODE	SIZE	คมกัด	ยาว	BAHT
T112-505	1/8 - W40	18	46	
T112-510	5/32 - W32	18	48	
T112-515	3/16 - W24	22	60	
T112-520	1/4 - W20	24	62	
T112-525	5/16 - W18	30	70	
T112-530	3/8 - W16	35	75	
T112-535	7/16 - W14	38	80	

CODE	SIZE	คมกัด	ยาว	BAHT
T112-540	1/2 - W12	42	85	
T112-545	9/16 - W12	42	90	
T112-550	5/8 - W11	45	95	
T112-555	3/4 - W10	50	105	
T112-560	7/8 - W9	55	115	
T112-565	1" - W8	60	125	

★ 1/8 -1/2: 10支/盒

SPIRAL FLUTED TAPS FOR STAINLESS STEELS

★ ตีแปเครื่องเกลียวสว่าน สำหรับตีแปสแตนเลส



HSS-EX

CODE	SIZE	คมกัด	ยาว	BAHT
T116-005	M2 X 0.4	15	40	
T116-010	M2.2 X 0.45	15	42	
T116-020	M2.5 X 0.45	16	44	
T116-025	M2.6 X 0.45	16	44	
T116-030	M3 X 0.5	18	46	
T116-040	M3.5 X 0.6	18	48	
T116-050	M4 X 0.7	20	52	
T116-070	M5 X 0.8	22	60	
T116-085	M6 X 1.0	24	62	
T116-110	M8 X 1.25	30	70	

CODE	SIZE	คมกัด	ยาว	BAHT
T116-140	M10 X 1.5	32	75	
T116-175	M12 X 1.75	38	82	
T116-195	M14 X 2.0	42	88	
T116-225	M16 X 2.0	45	95	
T116-240	M18 X 2.5	48	100	
T116-260	M20 X 2.5	50	105	
T116-280	M22 X 2.5	55	115	
T116-300	M24 X 3	58	120	
T116-345	M27 X 3	62	135	
T116-370	M30 X 3.5	65	135	

★ M2-M12 (1/8-1/2) 为10支/盒

SPIRAL FLUTED TAPS FOR STAINLESS STEELS

★ ตีแปเครื่องเกลียวสว่าน สำหรับตีแปสแตนเลส



HSS-EX

CODE	SIZE	คมกัด	ยาว	BAHT
T117-005	M2 X 0.4	4	40	
T117-020	M2.5 X 0.45	4.5	44	
T117-030	M3 X 0.5	5	46	
T117-050	M4 X 0.7	7	52	
T117-070	M5 X 0.8	8	60	
T117-085	M6 X 1	10	62	
T117-110	M8 X 1.25	12.5	70	

CODE	SIZE	คมกัด	ยาว	BAHT
T117-140	M10 X 1.5	15	75	
T117-175	M12 X 1.75	17.5	82	
T117-195	M14 X 2	20	88	
T117-225	M16 X 2	20	95	
T117-240	M18 X 2.5	25	100	
T117-260	M20 X 2.5	25	105	

★ M2-M12 (1/8-1/2) 为10支/盒



GUN POINTED TAPS FOR GENERAL PURPOSE

★ ตีกับเครื่องเกลียวตรง รุ่นใช้ทั่วไป



HSS-EX

CODE	SIZE	คมกััด	ยาว	BAHT
T118-005	M2 X 0.4	15	40	
T118-010	M2.2 X 0.45	15	42	
T118-020	M2.5 X 0.45	16	44	
T118-025	M2.6 X 0.45	16	44	
T118-030	M3 X 0.5	18	46	
T118-040	M3.5 X 0.6	18	48	
T118-050	M4 X 0.7	20	52	
T118-055	M4 X 0.5	20	52	
T118-060	M4.5 x 0.75	20	55	
T118-070	M5 X 0.8	22	60	
T118-075	M5 X 0.5	22	60	
T118-085	M6 X 1	24	62	
T118-090	M6 X 0.75	24	62	
T118-100	M7 X 1	26	65	
T118-110	M8 X 1.25	30	70	
T118-115	M8 X 1	30	70	
T118-125	M9 X 1.25	30	72	
T118-140	M10 X 1.5	32	75	
T118-145	M10 X 1.25	32	75	
T118-150	M10 X 1	30	70	

CODE	SIZE	คมกััด	ยาว	BAHT
T118-175	M12 X 1.75	38	82	
T118-180	M12 X 1.5	38	82	
T118-185	M12 X 1.25	30	80	
T118-195	M14 X 2	42	88	
T118-200	M14 X 1.5	42	88	
T118-225	M16 X 2	45	95	
T118-230	M16 X 1.5	45	95	
T118-240	M18 X 2.5	48	100	
T118-245	M18 X 2	45	95	
T118-250	M18 X 1.5	45	95	
T118-260	M20 X 2.5	50	105	
T118-265	M20 X 2	45	95	
T118-270	M20 X 1.5	45	95	
T118-280	M22 X 2.5	55	115	
T118-300	M24 X 3	58	120	
T118-345	M27 X 3	62	130	
T118-370	M30 X 3.5	65	135	
T118-395	M33 X 3.5	70	145	
T118-415	M36 X 4	75	155	

CODE	SIZE	คมกััด	ยาว	BAHT
T118-505	1/8 - W40	18	46	
T118-510	5/32 - W32	20	52	
T118-515	3/16 - W24	22	60	
T118-520	1/4 - W20	24	62	
T118-525	5/16 - W18	30	70	
T118-530	3/8 - W16	35	75	
T118-535	7/16 - W14	38	80	
T118-540	1/2 - W12	42	85	
T118-545	9/16 - W12	45	90	
T118-550	5/8 - W11	45	95	

CODE	SIZE	คมกััด	ยาว	BAHT
T118-555	3/4 - W10	50	105	
T118-560	7/8 - W9	55	115	
T118-565	1" - W8	60	125	
T118-605	#2-56UNC	15	42	
T118-615	#4-40UNC	16	44	
T118-625	#5-40UNC	18	46	
T118-635	#6-32UNC	18	48	
T118-645	#8-32UNC	20	52	
T118-655	#10-24UNC	22	60	
T118-660	#10-32UNF	22	60	

GUN POINTED TAPS FOR GENERAL PURPOSE

★ ตีกับเครื่องเกลียวตรง รุ่นใช้ทั่วไป



HSS-EX

CODE	SIZE	คมกััด	ยาว	BAHT
T120-005	M2 X 0.4	15	40	
T120-010	M2.2 X 0.45	15	42	
T120-020	M2.5 X 0.45	16	44	
T120-025	M2.6 X 0.45	16	44	
T120-030	M3 X 0.5	18	46	
T120-040	M3.5 X 0.6	18	48	
T120-050	M4 X 0.7	20	52	
T120-070	M5 X 0.8	22	60	
T120-085	M6 X 1.0	24	62	
T120-110	M8 X 1.25	30	70	

CODE	SIZE	คมกััด	ยาว	BAHT
T120-140	M10 X 1.5	32	75	
T120-175	M12 X 1.75	38	82	
T120-195	M14 X 2.0	42	88	
T120-225	M16 X 2.0	45	95	
T120-240	M18 X 2.5	48	100	
T120-260	M20 X 2.5	50	105	
T120-280	M22 X 2.5	55	115	
T120-300	M24 X 3.0	58	120	
T120-345	M27 X 3.0	62	130	
T120-370	M30 X 3.5	65	135	

★ M2-M12 (1/8-1/2) 为10支/盒



GUN POINTED TAPS FOR NON-FERROUS METALS

★ ตีปเครื่องเกลียวสว่าน สำหรับตีปโลหะที่ไม่ใช่เหล็ก (เช่น ทองแดง,อลูมิเนียม)



CODE	SIZE	คมกัด	ยาว	BAHT
T122-005	M2 X 0.4	15	40	
T122-010	M2.2 X 0.45	15	42	
T122-020	M2.5 X 0.45	16	44	
T122-025	M2.6 X 0.45	16	44	
T122-030	M3 X 0.5	18	46	
T122-040	M3.5 X 0.6	18	48	
T122-050	M4 X 0.7	20	52	
T122-070	M5 X 0.8	22	60	
T122-085	M6 X 1.0	24	62	
T122-110	M8 X 1.25	30	70	

CODE	SIZE	คมกัด	ยาว	BAHT
T122-140	M10 X 1.5	32	75	
T122-175	M12 X 1.75	38	82	
T122-195	M14 X 2.0	42	88	
T122-225	M16 X 2.0	45	95	
T122-240	M18 X 2.5	48	100	
T122-260	M20 X 2.5	50	105	
T122-280	M22 X 2.5	55	115	
T122-300	M24 X 3.0	58	120	
T122-345	M27 X 3.0	62	130	
T122-370	M30 X 3.5	65	135	

SPIRAL FLUTED TAPS FOR TITANIUM ALLOYS

★ 適用於鈦及鈦合金和具有相同性質的材料的首孔攻牙, 亦適用於底導熱材料的盲孔攻牙.



CODE	SIZE	คมกัด	ยาว	BAHT
T124-005	M3 X 0.5	11	46	
T124-010	M4 X 0.7	13	52	
T124-015	M5 X 0.8	16	60	
T124-020	M6 X 1.0	19	62	

CODE	SIZE	คมกัด	ยาว	BAHT
T124-025	M8 X 1.25	22	70	
T124-030	M10 X 1.5	24	75	
T124-035	M12 X 1.75	29	82	

GUN POINTED TAPS FOR HARD TO MACHINE MATERIALS

★ 適用於高碳鋼及合金鋼、耐熱鋼及模具鋼等高強度鋼材(HRC35-45)的通孔攻牙



CODE	SIZE	คมกัด	ยาว	BAHT
T126-005	M3 X 0.5	11	46	
T126-010	M3.5 X 0.6	13	48	
T126-015	M4 X 0.7	13	52	
T126-020	M5 X 0.8	16	60	
T126-025	M6 X 1.0	19	62	
T126-030	M8 X 1.25	22	70	

CODE	SIZE	คมกัด	ยาว	BAHT
T126-035	M10 X 1.5	24	75	
T126-045	M12 X 1.75	29	82	
T126-060	M14 X 2.0	30	88	
T126-070	M16 X 2.0	32	95	
T126-080	M18 X 2.5	37	100	
T126-090	M20 X 2.5	37	105	

★ M2-M12 (1/8-1/2) 為10支/盒

HSS-PM TAP

★ 適用於高碳鋼、合金鋼、不鏽鋼、鋁合金及鑄鐵.



CODE	SIZE	คมกัด						BAHT
			L2	L1	D2	K	K1	
T128-005	M2 X 0.4	YH1	42	7	3	2.5	5	
T128-015	M2.3 X 0.4	YH1	42	8	3	2.5	5	
T128-020	M2.5 X 0.45	YH1	46	8	3	2.5	5	
T128-025	M2.6 X 0.45	YH1	46	8	3	2.5	5	
T128-030	M3 X 0.5	YH2	46	9	4	3.2	6	
T128-050	M4 X 0.7	YH2	52	11	5	4	7	
T128-070	M5 X 0.8	YH2	60	13	5.5	4.5	7	
T128-085	M6 X 1.0	YH2	62	15	6	4.5	7	
T128-110	M8 X 1.25	YH2	70	19	6.2	5	8	
T128-140	M10 X 1.5	YH2	75	23	7	5.5	8	
T128-175	M12 X 1.75	YH2	82	26	8.5	6.5	9	



GUN POINTED TAPS FOR GENERAL PURPOSE



HSS-EX

CODE	SIZE	คมกััด	ยาว	BAHT
T181-005	M2 X 0.4	9.5	40.0	
T181-010	M2.2 X 0.45	9.5	42.0	
T181-015	M2.3 X 0.4	9.5	42.0	
T181-020	M2.5 X 0.45	9.5	44.0	
T181-025	M2.6 X 0.45	9.5	44.0	
T181-030	M3 X 0.5	11.0	46.0	
T181-035	M3 X 0.35	11.0	46.0	
T181-040	M3.5 X 0.6	13.0	48.0	
T181-045	M3.5 X 0.35	13.0	48.0	
T181-050	M4 X 0.7	13.0	52.0	
T181-055	M4 X 0.5	13.0	52.0	
T181-060	M4.5 X 0.75	13.0	55.0	
T181-065	M4.5 X 0.5	13.0	55.0	
T181-070	M5 X 0.8	16.0	60.0	
T181-075	M5 X 0.5	16.0	60.0	
T181-080	M5.5 X 0.5	16.0	60.0	
T181-085	M6 X 1.0	19.0	62.0	
T181-090	M6 X 0.75	19.0	62.0	
T181-095	M6 X 0.5	19.0	62.0	
T181-100	M7 X 1.0	19.0	65.0	
T181-105	M7 X 0.75	19.0	65.0	
T181-110	M8 X 1.25	22.0	70.0	
T181-115	M8 X 1.0	22.0	70.0	
T181-120	M8 X 0.75	22.0	70.0	
T181-125	M9 X 1.25	22.0	72.0	
T181-130	M9 X 1.0	22.0	72.0	
T181-135	M9 X 0.75	22.0	72.0	
T181-140	M10 X 1.5	24.0	75.0	
T181-145	M10 X 1.25	24.0	75.0	
T181-150	M10 x 1.0	24.0	75.0	
T181-155	M10 X 0.75	24.0	75.0	
T181-160	M11 X 1.5	25.0	80.0	
T181-165	M11 X 1.0	25.0	80.0	
T181-170	M11 X 0.75	25.0	80.0	
T181-175	M12 X 1.75	29.0	82.0	
T181-180	M12 X 1.5	29.0	82.0	
T181-185	M12 X 1.25	29.0	82.0	
T181-190	M12 X 1.0	29.0	82.0	
T181-195	M14 X 2.0	30.0	88.0	
T181-200	M14 X 1.5	30.0	88.0	
T181-205	M14 X 1.25	30.0	88.0	
T181-210	M14 X 1.0	30.0	88.0	
T181-215	M15 X 1.5	30.0	90.0	
T181-220	M15 X 1.0	30.0	90.0	
T181-225	M16 X 2.0	32.0	95.0	
T181-230	M16 X 1.5	32.0	95.0	

CODE	SIZE	คมกััด	ยาว	BAHT
T181-235	M16 X 1.0	32.0	95.0	
T181-240	M18 X 2.5	37.0	100.0	
T181-245	M18 X 2.0	37.0	100.0	
T181-250	M18 X 1.5	37.0	100.0	
T181-255	M18 X 1.0	37.0	100.0	
T181-260	M20 X 2.5	37.0	105.0	
T181-265	M20 X 2.0	37.0	105.0	
T181-270	M20 X 1.5	37.0	105.0	
T181-275	M20 X 1.0	37.0	105.0	
T181-280	M22 X 2.5	38.0	115.0	
T181-285	M22 X 2.0	38.0	115.0	
T181-290	M22 X 1.5	38.0	115.0	
T181-295	M22 X 1.0	38.0	115.0	
T181-300	M24 X 3.0	45.0	120.0	
T181-305	M24 X 2.0	45.0	120.0	
T181-310	M24 X 1.5	45.0	120.0	
T181-315	M24 X 1.0	45.0	120.0	
T181-320	M25 X 2.0	45.0	125.0	
T181-325	M25 X 1.5	45.0	125.0	
T181-330	M26 X 2.0	45.0	125.0	
T181-335	M26 X 1.5	45.0	125.0	
T181-340	M26 X 1.0	45.0	125.0	
T181-345	M27 X 3.0	45.0	130.0	
T181-350	M27 X 2.0	45.0	130.0	
T181-355	M27 X 1.5	45.0	130.0	
T181-360	M28 X 2.0	45.0	130.0	
T181-365	M28 X 1.5	45.0	130.0	
T181-370	M30 X 3.5	48.0	135.0	
T181-375	M30 X 3.0	48.0	135.0	
T181-380	M30 X 2.0	48.0	135.0	
T181-385	M30 X 1.5	48.0	135.0	
T181-390	M30 X 1.0	48.0	135.0	
T181-395	M33 X 3.5	51.0	145.0	
T181-400	M33 X 3.0	51.0	145.0	
T181-405	M33 X 2.0	45.0	145.0	
T181-410	M33 X 1.5	45.0	145.0	
T181-415	M36 X 4.0	57.0	155.0	
T181-420	M36 X 3.0	57.0	155.0	
T181-425	M36 X 2.0	45.0	155.0	
T181-430	M36 X 1.5	45.0	155.0	

多用途絲攻的特點及適用範圍:

1. 特殊設計的螺紋結構 (國際專利): 防止進給過量, 螺紋和螺距直徑稍大.
2. 特殊設計溝槽的幾何形狀: 優異的排屑, 防上切屑堵塞以及提高攻絲質量.
3. 廣泛適用於盲孔及通孔的加工.
4. 特別適用於碳鋼, 合金鋼, 工具鋼, 鑄鋼, 不鏽鋼, 銅, 鋅, 鑄鋅合金的通孔攻牙.
5. 適用於鑄鐵, 鋁(軋鋁, 鑄鋁合金) 鈦(非鈦合金) 鎳(非鎳合金)的通孔攻牙



I-GP GUN POINT TAPS FOR MULTI PURPOSE



HSS-EX

CODE	SIZE	คมกััด	ยาว	BAHT
T183-005	M2 X 0.4	9.5	40.0	
T183-010	M2.2 X 0.45	9.5	42.0	
T183-015	M2.3 X 0.4	9.5	42.0	
T183-020	M2.5 X 0.45	9.5	44.0	
T183-025	M2.6 X 0.45	9.5	44.0	
T183-030	M3 X 0.5	11.0	46.0	
T183-035	M3 X 0.35	11.0	46.0	
T183-040	M3.5 X 0.6	13.0	48.0	
T183-045	M3.5 X 0.35	13.0	48.0	
T183-050	M4 X 0.7	13.0	52.0	
T183-055	M4 X 0.5	13.0	52.0	
T183-060	M4.5 X 0.75	13.0	55.0	
T183-065	M4.5 X 0.5	13.0	55.0	
T183-070	M5 X 0.8	16.0	60.0	
T183-075	M5 X 0.5	16.0	60.0	
T183-080	M5.5 X 0.5	16.0	60.0	
T183-085	M6 X 1.0	19.0	62.0	
T183-090	M6 X 0.75	19.0	62.0	
T183-095	M6 X 0.5	19.0	62.0	
T183-100	M7 X 1.0	19.0	65.0	
T183-105	M7 X 0.75	19.0	65.0	
T183-110	M8 X 1.25	22.0	70.0	
T183-115	M8 X 1.0	22.0	70.0	
T183-120	M8 X 0.75	22.0	70.0	
T183-125	M9 X 1.25	22.0	72.0	
T183-130	M9 X 1.0	22.0	72.0	
T183-135	M9 X 0.75	22.0	72.0	
T183-140	M10 X 1.5	24.0	75.0	
T183-145	M10 X 1.25	24.0	75.0	
T183-150	M10 X 1.0	24.0	75.0	
T183-155	M10 X 0.75	24.0	75.0	
T183-160	M11 X 1.5	25.0	80.0	
T183-165	M11 X 1.0	25.0	80.0	
T183-170	M11 X 0.75	25.0	80.0	
T183-175	M12 X 1.75	29.0	82.0	
T183-180	M12 X 1.5	29.0	82.0	
T183-185	M12 X 1.25	29.0	82.0	
T183-190	M12 X 1.0	29.0	82.0	
T183-195	M14 X 2.0	30.0	88.0	
T183-200	M14 X 1.5	30.0	88.0	
T183-205	M14 X 1.25	30.0	88.0	
T183-210	M14 X 1.0	30.0	88.0	
T183-215	M15 X 1.5	30.0	90.0	
T183-220	M15 X 1.0	30.0	90.0	
T183-225	M16 X 2.0	32.0	95.0	
T183-230	M16 X 1.5	32.0	95.0	
T183-235	M16 X 1.0	32.0	95.0	

CODE	SIZE	คมกััด	ยาว	BAHT
T183-240	M18 X 2.5	37.0	100.0	
T183-245	M18 X 2.0	37.0	100.0	
T183-250	M18 X 1.5	37.0	100.0	
T183-255	M18 X 1.0	37.0	100.0	
T183-260	M20 X 2.5	37.0	105.0	
T183-265	M20 X 2.0	37.0	105.0	
T183-270	M20 X 1.5	37.0	105.0	
T183-275	M20 X 1.0	37.0	105.0	
T183-280	M22 X 2.5	38.0	115.0	
T183-285	M22 X 2.0	38.0	115.0	
T183-290	M22 X 1.5	38.0	115.0	
T183-295	M22 X 1.0	38.0	115.0	
T183-300	M24 X 3.0	45.0	120.0	
T183-305	M24 X 2.0	45.0	120.0	
T183-310	M24 X 1.5	45.0	120.0	
T183-315	M24 X 1.0	45.0	120.0	
T183-320	M25 X 2.0	45.0	125.0	
T183-325	M25 X 1.5	45.0	125.0	
T183-330	M26 X 2.0	45.0	125.0	
T183-335	M26 X 1.5	45.0	125.0	
T183-340	M26 X 1.0	45.0	125.0	
T183-345	M27 X 3.0	45.0	130.0	
T183-350	M27 X 2.0	45.0	130.0	
T183-355	M27 X 1.5	45.0	130.0	
T183-360	M28 X 2.0	45.0	130.0	
T183-365	M28 X 1.5	45.0	130.0	
T183-370	M30 X 3.5	48.0	135.0	
T183-375	M30 X 3.0	48.0	135.0	
T183-380	M30 X 2.0	45.0	135.0	
T183-385	M30 X 1.5	45.0	135.0	
T183-390	M30 X 1.0	45.0	135.0	
T183-395	M33 X 3.5	51.0	145.0	
T183-400	M33 X 3.0	51.0	145.0	
T183-405	M33 X 2.0	45.0	145.0	
T183-410	M33 X 1.5	45.0	145.0	
T183-415	M36 X 4.0	57.0	155.0	
T183-420	M36 X 3.0	57.0	155.0	
T183-425	M36 X 2.0	45.0	155.0	
T183-430	M36 X 1.5	45.0	155.0	

多用途絲攻的特點及適用範圍:

1. 特殊設計的螺紋結構 (國際專利): 防止進給過量, 螺紋和螺距直徑稍大.
2. 特殊設計溝槽的幾何形狀: 優異的排屑, 防上切屑堵塞以及提高攻絲質量.
3. 廣泛適用於盲孔及通孔的加工.
4. 特別適用於碳鋼, 合金鋼, 工具鋼, 鑄鋼, 不鏽鋼, 銅, 鋅, 鑄鋅合金的通孔攻牙.
5. 適用於鑄鐵, 鋁(軋鋁, 鑄鋁合金) 鈦(非鈦合金) 鎳(非鎳合金)的通孔攻牙



SPIRAL FLUTED TAPS FOR MULTI PURPOSE



HSS-EX

INCH

CODE	SIZE	คมกัด	ยาว	BAHT
T181-505	W1/8 – 40	11.0	46.0	
T181-510	W5/32 – 32	13.0	52.0	
T181-515	W3/16 – 24	16.0	60.0	
T181-520	W1/4 – 20	19.0	62.0	
T181-525	W5/16 – 18	22.0	70.0	
T181-530	W3/8 – 16	24.0	75.0	
T181-535	W7/16 – 14	25.0	80.0	
T181-540	W1/2 – 12	29.0	85.0	
T181-545	W9/16 – 12	30.0	90.0	
T181-550	W5/8 – 11	32.0	95.0	
T181-555	W3/4 – 10	37.0	105.0	
T181-560	W7/8 – 9	38.0	115.0	
T181-565	W1" – 8	45.0	125.0	

GUN POINT TAPS FOR MULTI PURPOSE



HSS-EX

INCH

CODE	SIZE	คมกัด	ยาว	BAHT
T183-505	W1/8 – 40	11.0	46.0	
T183-510	W5/32 – 32	13.0	52.0	
T183-515	W3/16 – 24	16.0	60.0	
T183-520	W1/4 – 20	19.0	62.0	
T183-525	W5/16 – 18	22.0	70.0	
T183-530	W3/8 – 16	24.0	75.0	
T183-535	W7/16 – 14	25.0	80.0	
T183-540	W1/2 – 12	29.0	85.0	
T183-545	W9/16 – 12	30.0	90.0	
T183-550	W5/8 – 11	32.0	95.0	
T183-555	W3/4 – 10	37.0	105.0	
T183-560	W7/8 – 9	38.0	115.0	
T183-565	W1" – 8	45.0	125.0	



TiN-COATED

CODE	SIZE	คมกัด	ยาว	BAHT
T281-005	M2 X 0.4	9.5	40.0	
T281-010	M2.2 X 0.45	9.5	42.0	
T281-015	M2.3 X 0.4	9.5	42.0	
T281-020	M2.5 X 0.45	9.5	44.0	
T281-025	M2.6 X 0.45	9.5	44.0	
T281-030	M3 X 0.5	11.0	46.0	
T281-040	M3.5 X 0.6	13.0	48.0	
T281-050	M4 X 0.7	13.0	52.0	
T281-070	M5 X 0.8	16.0	60.0	
T281-085	M6 X 1.0	19.0	62.0	
T281-110	M8 X 1.25	22.0	70.0	
T281-140	M10 X 1.5	24.0	75.0	
T281-175	M12 X 1.75	29.0	82.0	
T281-195	M14 X 2.0	30.0	88.0	
T281-225	M16 X 2.0	32.0	95.0	
T281-240	M18 X 2.5	37.0	100.0	
T281-260	M20 X 2.5	37.0	105.0	



TiN-COATED

CODE	SIZE	คมกัด	ยาว	BAHT
T283-005	M2 X 0.4	9.5	40.0	
T283-010	M2.2 X 0.45	9.5	42.0	
T283-015	M2.3 X 0.4	9.5	42.0	
T283-020	M2.5 X 0.45	9.5	44.0	
T283-025	M2.6 X 0.45	9.5	44.0	
T283-030	M3 X 0.5	11.0	46.0	
T283-040	M3.5 X 0.6	13.0	48.0	
T283-050	M4 X 0.7	13.0	52.0	
T283-070	M5 X 0.8	16.0	60.0	
T283-085	M6 X 1.0	19.0	62.0	
T283-110	M8 X 1.25	22.0	70.0	
T283-140	M10 X 1.5	24.0	75.0	
T283-175	M12 X 1.75	29.0	82.0	
T283-195	M14 X 2.0	30.0	88.0	
T283-225	M16 X 2.0	32.0	95.0	
T283-240	M18 X 2.5	37.0	100.0	
T283-260	M20 X 2.5	37.0	105.0	



**SPIRAL FLUTED TAPS FOR MULTI PURPOSE
 HSS-EX**



LONG

ความยาว : 100mm

CODE	SIZE	คมกััด	ยาว	BAHT
T184-030	M3 X 0.5	11.0	100	
T184-050	M4 X 0.7	13.0	100	
T184-070	M5 X 0.8	16.0	100	
T184-085	M6 X 1.0	19.0	100	
T184-110	M8 X 1.25	22.0	100	
T184-115	M8 X 1.0	22.0	100	
T184-120	M8 X 0.75	22.0	100	
T184-140	M10 X 1.5	24.0	100	
T184-145	M10 X 1.25	24.0	100	
T184-150	M10 x 1.0	24.0	100	
T184-155	M10 X 0.75	24.0	100	
T184-175	M12 X 1.75	29.0	100	
T184-180	M12 X 1.5	29.0	100	
T184-185	M12 X 1.25	29.0	100	
T184-190	M12 X 1.0	29.0	100	

SUPER LONG

ความยาว : 150mm

CODE	SIZE	คมกััด	ยาว	BAHT
T186-030	M3 X 0.5	11.0	150	
T186-050	M4 X 0.7	13.0	150	
T186-070	M5 X 0.8	16.0	150	
T186-085	M6 X 1.0	19.0	150	
T186-110	M8 X 1.25	22.0	150	
T186-115	M8 X 1.0	22.0	150	
T186-120	M8 X 0.75	22.0	150	
T186-140	M10 X 1.5	24.0	150	
T186-145	M10 X 1.25	24.0	150	
T186-150	M10 x 1.0	24.0	150	
T186-155	M10 X 0.75	24.0	150	
T186-175	M12 X 1.75	29.0	150	
T186-180	M12 X 1.5	29.0	150	
T186-185	M12 X 1.25	29.0	150	
T186-190	M12 X 1.0	29.0	150	
T186-195	M14 X 2.0	30.0	150	
T186-200	M14 X 1.5	30.0	150	
T186-205	M14 X 1.25	30.0	150	
T186-210	M14 X 1.0	30.0	150	
T186-225	M16 X 2.0	32.0	150	
T186-230	M16 X 1.5	32.0	150	
T186-235	M16 X 1.0	32.0	150	
T186-240	M18 X 2.5	37.0	150	
T186-245	M18 X 2.0	37.0	150	
T186-250	M18 X 1.5	37.0	150	
T186-255	M18 X 1.0	37.0	150	
T186-260	M20 X 2.5	37.0	150	
T186-265	M20 X 2.0	37.0	150	
T186-270	M20 X 1.5	37.0	150	
T186-275	M20 X 1.0	37.0	150	

EXTRA LONG

ความยาว : 120mm

CODE	SIZE	คมกััด	ยาว	BAHT
T185-030	M3 X 0.5	11.0	120	
T185-050	M4 X 0.7	13.0	120	
T185-070	M5 X 0.8	16.0	120	
T185-085	M6 X 1.0	19.0	120	
T185-110	M8 X 1.25	22.0	120	
T185-115	M8 X 1.0	22.0	120	
T185-120	M8 X 0.75	22.0	120	
T185-140	M10 X 1.5	24.0	120	
T185-145	M10 X 1.25	24.0	120	
T185-150	M10 x 1.0	24.0	120	
T185-155	M10 X 0.75	24.0	120	
T185-175	M12 X 1.75	29.0	120	
T185-180	M12 X 1.5	29.0	120	
T185-185	M12 X 1.25	29.0	120	
T185-190	M12 X 1.0	29.0	120	
T185-195	M14 X 2.0	30.0	120	
T185-200	M14 X 1.5	30.0	120	
T185-205	M14 X 1.25	30.0	120	
T185-210	M14 X 1.0	30.0	120	
T185-225	M16 X 2.0	32.0	120	
T185-230	M16 X 1.5	32.0	120	
T185-235	M16 X 1.0	32.0	120	



**GUN POINT TAPS FOR MULTI PURPOSE
 HSS-EX**



LONG

ความยาว : 100mm

CODE	SIZE	คมกััด	ยาว	BAHT
T187-030	M3 X 0.5	11.0	100	
T187-050	M4 X 0.7	13.0	100	
T187-070	M5 X 0.8	16.0	100	
T187-085	M6 X 1.0	19.0	100	
T187-110	M8 X 1.25	22.0	100	
T187-115	M8 X 1.0	22.0	100	
T187-120	M8 X 0.75	22.0	100	
T187-140	M10 X 1.5	24.0	100	
T187-145	M10 X 1.25	24.0	100	
T187-150	M10 x 1.0	24.0	100	
T187-155	M10 X 0.75	24.0	100	
T187-175	M12 X 1.75	29.0	100	
T187-180	M12 X 1.5	29.0	100	
T187-185	M12 X 1.25	29.0	100	
T187-190	M12 X 1.0	29.0	100	

SUPER LONG

ความยาว : 150mm

CODE	SIZE	คมกััด	ยาว	BAHT
T189-030	M3 X 0.5	11.0	150	
T189-050	M4 X 0.7	13.0	150	
T189-070	M5 X 0.8	16.0	150	
T189-085	M6 X 1.0	19.0	150	
T189-110	M8 X 1.25	22.0	150	
T189-115	M8 X 1.0	22.0	150	
T189-120	M8 X 0.75	22.0	150	
T189-140	M10 X 1.5	24.0	150	
T189-145	M10 X 1.25	24.0	150	
T189-150	M10 x 1.0	24.0	150	
T189-155	M10 X 0.75	24.0	150	
T189-175	M12 X 1.75	29.0	150	
T189-180	M12 X 1.5	29.0	150	
T189-185	M12 X 1.25	29.0	150	
T189-190	M12 X 1.0	29.0	150	
T189-195	M14 X 2.0	30.0	150	
T189-200	M14 X 1.5	30.0	150	
T189-205	M14 X 1.25	30.0	150	
T189-210	M14 X 1.0	30.0	150	
T189-225	M16 X 2.0	32.0	150	
T189-230	M16 X 1.5	32.0	150	
T189-235	M16 X 1.0	32.0	150	
T189-240	M18 X 2.5	37.0	150	
T189-245	M18 X 2.0	37.0	150	
T189-250	M18 X 1.5	37.0	150	
T189-255	M18 X 1.0	37.0	150	
T189-260	M20 X 2.5	37.0	150	
T189-265	M20 X 2.0	37.0	150	
T189-270	M20 X 1.5	37.0	150	
T189-275	M20 X 1.0	37.0	150	

EXTRA LONG

ความยาว : 120mm

CODE	SIZE	คมกััด	ยาว	BAHT
T188-030	M3 X 0.5	11.0	120	
T188-050	M4 X 0.7	13.0	120	
T188-070	M5 X 0.8	16.0	120	
T188-085	M6 X 1.0	19.0	120	
T188-110	M8 X 1.25	22.0	120	
T188-140	M10 X 1.5	24.0	120	
T188-145	M10 X 1.25	24.0	120	
T188-150	M10 x 1.0	24.0	120	
T188-155	M10 X 0.75	24.0	120	
T188-175	M12 X 1.75	29.0	120	
T188-180	M12 X 1.5	29.0	120	
T188-185	M12 X 1.25	29.0	120	
T188-190	M12 X 1.0	29.0	120	
T188-195	M14 X 2.0	30.0	120	
T188-200	M14 X 1.5	30.0	120	
T188-205	M14 X 1.25	30.0	120	
T188-210	M14 X 1.0	30.0	120	
T188-225	M16 X 2.0	32.0	120	
T188-230	M16 X 1.5	32.0	120	
T188-235	M16 X 1.0	32.0	120	



TiALN-COATED

2F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM602-0010	1	4	3	50	
EM602-0015	1.5	4	4	50	
EM602-0020	2	4	6	50	
EM602-0025	2.5	4	8	50	
EM602-0030A	3	4	9	50	
EM602-0030	3	6	9	50	
EM602-0040A	4	4	11	50	
EM602-0040	4	6	11	50	
EM602-0050	5	6	13	50	
EM602-0060	6	6	16	50	
EM602-0070	7	8	16	60	
EM602-0080	8	8	19	60	
EM602-0090	9	10	19	60	
EM602-0100	10	10	25	75	
EM602-0120	12	12	30	75	
EM602-0140	14	14	32	75	
EM602-0160	16	16	32	100	
EM602-0180	18	18	32	100	
EM602-0200	20	20	38	100	

4F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM604-0010	1	4	3	50	
EM604-0015	1.5	4	4	50	
EM604-0020	2	4	6	50	
EM604-0025	2.5	4	8	50	
EM604-0030A	3	4	9	50	
EM604-0030	3	6	9	50	
EM604-0040A	4	4	11	50	
EM604-0040	4	6	11	50	
EM604-0050	5	6	13	50	
EM604-0060	6	6	16	50	
EM604-0070	7	8	16	60	
EM604-0080	8	8	19	60	
EM604-0090	9	10	19	60	
EM604-0100	10	10	25	75	
EM604-0120	12	12	30	75	
EM604-0140	14	14	32	75	
EM604-0160	16	16	32	100	
EM604-0180	18	18	32	100	
EM604-0200	20	20	38	100	

2F หัวมน



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM622-0010	1 (R0.5)	4	2	50	
EM622-0015	1.5 (R0.75)	4	3	50	
EM622-0020	2 (R1)	4	4	50	
EM622-0025	2.5 (R1.25)	4	6	50	
EM622-0030	3 (R1.5)	4	6	50	
EM622-0040	4 (R2)	4	8	50	
EM622-0050	5 (R2.5)	6	10	50	
EM622-0060	6 (R3)	6	12	50	
EM622-0080	8 (R4)	8	14	60	
EM622-0100	10 (R5)	10	18	75	
EM622-0120	12 (R6)	12	22	75	
EM622-0140	14 (R7)	14	32	75	
EM622-0160	16 (R8)	16	32	100	
EM622-0180	18 (R9)	18	32	100	
EM622-0200	20 (R10)	20	38	100	

2F

หัวมน รุ่นยาวพิเศษ



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM612-0030	3 (R1.5)	6	8	60	
EM612-0040	4 (R2)	6	8	70	
EM612-0050	5 (R2.5)	6	10	80	
EM612-0060	6 (R3)	6	12	90	
EM612-0080	8 (R4)	8	14	90	
EM612-0100	10 (R5)	10	18	100	
EM612-0120	12 (R6)	12	22	110	

★ 本系列適合乾濕高速切削，適用於切削HRC55° 或以下模具鋼、合金鋼、工具鋼、不鏽鋼等難削材質



STM CARBIDE END MILLS

4F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM404-I004	1/16	1/8	3/16	1-1/2	
EM404-I008	1/8	1/8	1/2	1-1/2	
EM404-I010	5/32	3/16	9/16	2"	
EM404-I012	3/16	3/16	5/8	2"	
EM404-I016	1/4	1/4	3/4	2-1/2	
EM404-I020	5/16	5/16	13/16	2-1/2	
EM404-I024	3/8	3/8	7/8	2-1/2	
EM404-I032	1/2	1/2	1"	3"	
EM404-I040	5/8	5/8	1-1/4	3-1/2	
EM404-I048	3/4	3/4	1-1/2	4"	

2F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM402-I004	1/16	1/8	3/16	1-1/2	
EM402-I008	1/8	1/8	1/2	1-1/2	
EM402-I010	5/32	3/16	9/16	2"	
EM402-I012	3/16	3/16	5/8	2"	
EM402-I016	1/4	1/4	3/4	2-1/2	
EM402-I020	5/16	5/16	13/16	2-1/2	
EM402-I024	3/8	3/8	7/8	2-1/2	
EM402-I032	1/2	1/2	1"	3"	
EM402-I040	5/8	5/8	1-1/4	3-1/2	
EM402-I048	3/4	3/4	1-1/2	4"	

4F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM404-0010	1	3	3	39	
EM404-0015	1.5	3	5	39	
EM404-0020	2	3	7	39	
EM404-0025	2.5	3	7	39	
EM404-0030	3	3	9	39	
EM404-0035	3.5	4	12	51	
EM404-0040	4	4	14	51	
EM404-0045	4.5	5	14	51	
EM404-0050	5	5	16	51	
EM404-0060	6	6	19	64	
EM404-0070	7	8	19	64	
EM404-0080	8	8	21	64	
EM404-0090	9	10	22	70	
EM404-0100	10	10	22	70	
EM404-0110	11	11	25	70	
EM404-0120	12	12	25	76	
EM404-0140	14	14	30	89	
EM404-0160	16	16	32	89	
EM404-0180	18	18	35	102	
EM404-0200	20	20	38	102	
EM404-0250	25	25	38	102	

2F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM402-0004	0.4	3	1	39	
EM402-0005	0.5	3	1.5	39	
EM402-0006	0.6	3	1.8	39	
EM402-0007	0.7	3	2.1	39	
EM402-0008	0.8	3	2.5	39	
EM402-0009	0.9	3	2.5	39	
EM402-0010	1	3	3	39	
EM402-0015	1.5	3	5	39	
EM402-0020	2	3	7	39	
EM402-0025	2.5	3	7	39	
EM402-0030	3	3	9	39	
EM402-0035	3.5	4	12	51	
EM402-0040	4	4	14	51	
EM402-0045	4.5	5	14	51	
EM402-0050	5	5	16	51	
EM402-0060	6	6	19	64	
EM402-0070	7	8	19	64	
EM402-0080	8	8	21	64	
EM402-0090	9	10	22	70	
EM402-0100	10	10	22	70	
EM402-0110	11	11	25	70	
EM402-0120	12	12	25	76	
EM402-0140	14	14	30	89	
EM402-0160	16	16	32	89	
EM402-0180	18	18	35	102	
EM402-0200	20	20	38	102	

4F รุ้่นยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM464-I008	1/8	1/8	3/4	2-1/4	
EM464-I012	3/16	3/16	3/4	2-1/4	
EM464-I016	1/4	1/4	1-1/8	3"	
EM464-I020	5/16	5/16	1-1/8	3"	
EM464-I024	3/8	3/8	1-1/8	3"	
EM464-I032	1/2	1/2	2"	4"	
EM464-I040	5/8	5/8	2-1/4	5"	
EM464-I048	3/4	3/4	2-1/4	5"	
EM464-I101	1"	1"	2-1/4	5"	

4F รุ้่นยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM464-0030	3	3	19	57	
EM464-0040	4	4	19	57	
EM464-0050	5	5	25	64	
EM464-0060	6	6	28	76	
EM464-0080	8	8	29	76	
EM464-0120	12	12	51	102	
EM464-0160	16	16	57	127	
EM464-0200	20	20	57	127	
EM464-0250	25	25	57	127	



STM CARBIDE END MILLS

4F

รู้นยาวพิเศษ



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM484-I008	1/8	1/8	1"	3"	
EM484-I012	3/16	3/16	1-1/8	3"	
EM484-I016	1/4	1/4	1-1/2	4"	
EM484-I020	5/16	5/16	1-5/8	4"	
EM484-I024	3/8	3/8	1-3/4	4"	
EM484-I032	1/2	1/2	3"	6"	
EM484-I040	5/8	5/8	3"	6"	
EM484-I048	3/4	3/4	3"	6"	
EM484-I101	1"	1"	3"	6"	

4F

รู้นยาวพิเศษ



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM484-0030	3	3	25	76	
EM484-0040	4	4	28	76	
EM484-0050	5	5	32	76	
EM484-0060	6	6	38	102	
EM484-0080	8	8	42	102	
EM484-0100	10	10	45	102	
EM484-0120	12	12	76	153	
EM484-0160	16	16	76	153	
EM484-0200	20	20	76	153	
EM484-0250	25	25	76	153	

2F หัวมน



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM412-I008	1/8	1/8	1/2	1-1/2	
EM412-I010	5/32	3/16	9/16	2	
EM412-I012	3/16	3/16	5/8	2	
EM412-I016	1/4	1/4	3/4	2-1/2	
EM412-I020	5/16	5/16	13/16	2-1/2	
EM412-I024	3/8	3/8	7/8	2-1/2	
EM412-I032	1/2	1/2	1	3	
EM412-I040	5/8	5/8	1-1/4	3-1/2	
EM412-I048	3/4	3/4	1-1/2	4	

2F

หัวมนรู้นยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM497-0030	3	3	6	63	
EM497-0040	4	4	8	63	
EM497-0050	5	5	10	63	
EM497-0060	6	6	12	100	
EM497-0080	8	8	14	100	
EM497-0100	10	10	18	100	
EM497-0120	12	12	22	127	
EM497-0160	16	16	30	152	
EM497-0200	20	20	38	152	

2F หัวมน



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM412-0004	0.4	3	1	39	
EM412-0005	0.5	3	1.5	39	
EM412-0006	0.6	3	1.8	39	
EM412-0007	0.7	3	2.1	39	
EM412-0008	0.8	3	2.5	39	
EM412-0009	0.9	3	2.5	39	
EM412-0010	1	3	3	39	
EM412-0015	1.5	3	5	39	
EM412-0020	2	3	7	39	
EM412-0025	2.5	3	7	39	
EM412-0030	3	3	9	39	
EM412-0035	3.5	4	12	51	
EM412-0040	4	4	14	51	
EM412-0045	4.5	5	14	51	
EM412-0050	5	5	16	51	
EM412-0060	6	6	19	64	
EM412-0070	7	8	19	64	
EM412-0080	8	8	21	64	
EM412-0090	9	10	22	70	
EM412-0100	10	10	22	70	
EM412-0110	11	11	25	70	
EM412-0120	12	12	25	76	
EM412-0140	14	14	30	89	
EM412-0160	16	16	32	89	
EM412-0180	18	18	35	102	
EM412-0200	20	20	38	102	
EM412-0250	25	25	38	102	

4F หัวมน



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM414-0010	1	3	3	39	
EM414-0015	1.5	3	5	39	
EM414-0020	2	3	7	39	
EM414-0025	2.5	3	7	39	
EM414-0030	3	3	9	39	
EM414-0040	4	4	14	51	
EM414-0050	5	5	16	51	
EM414-0060	6	6	19	64	
EM414-0080	8	8	21	64	
EM414-0100	10	10	22	70	
EM414-0120	12	12	25	76	
EM414-0160	16	16	32	89	
EM414-0200	20	20	38	102	



MADE IN USA



CARBIDE CENTER DRILLS

CODE	NO	ขนาด	แกน	BAHT
TD235-001	1	3/64	1/8	
TD235-002	2	5/64	3/16	
TD235-003	3	7/64	1/4	
TD235-004	4	1/8	5/16	
TD235-005	5	3/16	7/16	

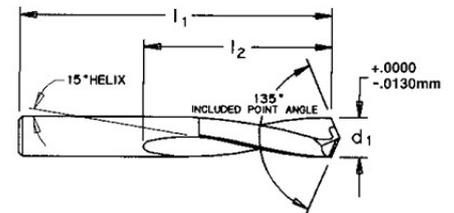
CARBIDE ROUND TOOL BITS

Inch.		BAHT
CODE	แกน/ยาว	
TB900-I00404	1/16 X 4"	
TB900-I00804	1/8 X 4"	
TB900-I01204	3/16 X 4"	
TB900-I01604	1/4 X 4"	
TB900-I02004	5/16 X 4"	
TB900-I02404	3/8 X 4"	
TB900-I03204	1/2 X 4"	

mm.		BAHT
CODE	แกน/ยาว	
TB900-015100	1.5 X 100mm	
TB900-020100	2.0 X 100mm	
TB900-025100	2.5 X 100mm	
TB900-030100	3.0 X 100mm	
TB900-040100	4.0 X 100mm	
TB900-050100	5.0 X 100mm	
TB900-060100	6.0 X 100mm	
TB900-080100	8.0 X 100mm	
TB900-100100	10 X 100mm	
TB900-120100	12 X 100mm	

215 系列

適用於：
 硬化及黏性的材料
 高溫合金鋼
 鈦
 鎢鎳鐵合金
 鑄鐵
 不銹鋼



英制

CODE	d ₁	l ₂	l ₁	BAHT
TD215-I004	1/16	5/8	1-5/8	
TD215-I005	5/64	11/16	1-11/16	
TD215-I006	3/32	3/4	1-3/4	
TD215-I007	7/64	13/16	1-13/16	
TD215-I008	1/8	7/8	1-7/8	
TD215-I009	9/64	15/16	1-15/16	
TD215-I010	5/32	1"	2-1/16	

CODE	d ₁	l ₂	l ₁	BAHT
TD215-I012	3/16	1-1/8	2-3/16	
TD215-I014	7/32	1-1/4	2-3/8	
TD215-I016	1/4	1-3/8	2-1/2	
TD215-I020	5/16	1-5/8	2-13/16	
TD215-I024	3/8	1-13/16	3-1/8	
TD215-I032	1/2	2-1/4	3-3/4	

公制

CODE	d ₁	l ₂	l ₁	BAHT
TD215-0010	1.0	13	38	
TD215-0011	1.1	13	38	
TD215-0012	1.2	13	38	
TD215-0013	1.3	13	38	
TD215-0014	1.4	13	38	
TD215-0015	1.5	13	38	
TD215-0016	1.6	18	43	
TD215-0017	1.7	18	43	
TD215-0018	1.8	18	43	
TD215-0019	1.9	18	43	
TD215-0020	2.0	19	45	
TD215-0021	2.1	19	45	
TD215-0022	2.2	19	45	
TD215-0023	2.3	19	45	
TD215-0024	2.4	21	46	
TD215-0025	2.5	21	46	
TD215-0026	2.6	21	46	
TD215-0027	2.7	21	46	
TD215-0028	2.8	22	48	
TD215-0029	2.9	22	48	
TD215-0030	3.0	22	48	
TD215-0031	3.1	22	48	
TD215-0032	3.2	24	52	
TD215-0033	3.3	24	52	
TD215-0034	3.4	24	52	
TD215-0035	3.5	24	52	
TD215-0036	3.6	25	52	
TD215-0037	3.7	25	52	

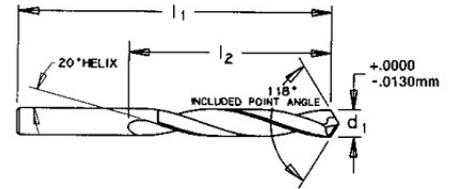
CODE	d ₁	l ₂	l ₁	BAHT
TD215-0038	3.8	25	52	
TD215-0039	3.9	25	52	
TD215-0040	4.0	27	53	
TD215-0041	4.1	27	53	
TD215-0042	4.2	27	53	
TD215-0043	4.3	27	53	
TD215-0044	4.4	29	55	
TD215-0045	4.5	29	55	
TD215-0046	4.6	29	55	
TD215-0047	4.7	29	55	
TD215-0048	4.8	30	57	
TD215-0049	4.9	30	57	
TD215-0050	5.0	30	57	
TD215-0055	5.5	32	60	
TD215-0060	6.0	33	61	
TD215-0065	6.5	35	63	
TD215-0070	7.0	38	68	
TD215-0075	7.5	40	70	
TD215-0080	8.0	41	71	
TD215-0085	8.5	43	76	
TD215-0090	9.0	44	78	
TD215-0095	9.5	46	79	
TD215-0100	10.0	48	83	
TD215-0105	10.5	51	86	
TD215-0110	11.0	52	87	
TD215-0115	11.5	54	90	
TD215-0120	12.0	54	92	



STM CARBIDE TWIST DRILLS

220 SERIE

適用於：
 非鐵合金
 鑄鐵
 塑膠
 鋁
 高研磨性材料



Inch.

CODE	d ₁	l ₂	l ₁	BAHT
TD220-I003	3/64	3/4	1-1/2	
TD220-I004	1/16	3/4	1-1/2	
TD220-I005	5/64	7/8	1-3/4	
TD220-I006	3/32	1"	2"	
TD220-I007	7/64	1-1/4	2-1/4	
TD220-I008	1/8	1-1/4	2-1/4	
TD220-I009	9/64	1-3/8	2-1/2	
TD220-I010	5/32	1-3/8	2-1/2	
TD220-I011	11/64	1-5/8	2-3/4	
TD220-I012	3/16	1-5/8	2-3/4	
TD220-I013	13/64	1-3/4	3"	
TD220-I014	7/32	1-3/4	3"	
TD220-I015	15/64	2"	3-1/4	
TD220-I016	1/4	2"	3-1/4	
TD220-I017	17/64	2-1/8	3-1/2	

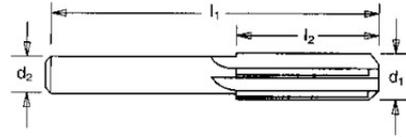
CODE	d ₁	l ₂	l ₁	BAHT
TD220-I018	9/32	2-1/8	3-1/2	
TD220-I019	19/64	2-3/8	3-3/4	
TD220-I020	5/16	2-3/8	3-3/4	
TD220-I021	21/64	2-1/2	4"	
TD220-I022	11/32	2-1/2	4"	
TD220-I023	23/64	2-1/2	4"	
TD220-I024	3/8	2-3/4	4-1/4	
TD220-I025	25/64	2-7/8	4-1/2	
TD220-I026	13/32	2-7/8	4-1/2	
TD220-I027	27/64	2-7/8	4-1/2	
TD220-I028	7/16	2-7/8	4-1/2	
TD220-I029	29/64	3"	4-3/4	
TD220-I030	15/32	3"	4-3/4	
TD220-I031	31/64	3"	4-3/4	
TD220-I032	1/2	3"	4-3/4	

mm.

CODE	d ₁	l ₂	l ₁	BAHT
TD220-0005	0.5mm	5.5	30	
TD220-0006	0.6mm	5.5	30	
TD220-0007	0.7mm	5.5	30	
TD220-0008	0.8mm	8	32	
TD220-0009	0.9mm	16	38	
TD220-0010	1.0mm	16	38	
TD220-0011	1.1mm	19	38	
TD220-0012	1.2mm	19	38	
TD220-0013	1.3mm	19	38	
TD220-0014	1.4mm	19	38	
TD220-0015	1.5mm	19	38	
TD220-0016	1.6mm	19	38	
TD220-0017	1.7mm	19	38	
TD220-0018	1.8mm	22	44	
TD220-0019	1.9mm	22	44	
TD220-0020	2.0mm	22	44	
TD220-0021	2.1mm	22	44	
TD220-0022	2.2mm	25	51	
TD220-0023	2.3mm	25	51	
TD220-0024	2.4mm	25	51	
TD220-0025	2.5mm	25	51	
TD220-0026	2.6mm	32	57	
TD220-0027	2.7mm	32	57	
TD220-0028	2.8mm	32	57	
TD220-0029	2.9mm	32	57	
TD220-0030	3.0mm	32	57	
TD220-0031	3.1mm	32	57	
TD220-0032	3.2mm	32	57	
TD220-0033	3.3mm	35	64	
TD220-0034	3.4mm	35	64	
TD220-0035	3.5mm	35	64	
TD220-0036	3.6mm	35	64	
TD220-0037	3.7mm	35	64	
TD220-0038	3.8mm	35	64	

CODE	d ₁	l ₂	l ₁	BAHT
TD220-0039	3.9mm	35	64	
TD220-0040	4.0mm	35	64	
TD220-0041	4.1mm	35	64	
TD220-0042	4.2mm	35	64	
TD220-0043	4.3mm	41	70	
TD220-0044	4.4mm	41	70	
TD220-0045	4.5mm	41	70	
TD220-0046	4.6mm	41	70	
TD220-0047	4.7mm	41	70	
TD220-0048	4.8mm	41	70	
TD220-0049	4.9mm	41	70	
TD220-0050	5.0mm	44	76	
TD220-0051	5.1mm	44	76	
TD220-0052	5.2mm	44	76	
TD220-0053	5.3mm	44	76	
TD220-0054	5.4mm	44	76	
TD220-0055	5.5mm	44	76	
TD220-0056	5.6mm	44	76	
TD220-0057	5.7mm	44	76	
TD220-0058	5.8mm	44	76	
TD220-0059	5.9mm	51	83	
TD220-0060	6.0mm	51	83	
TD220-0061	6.1mm	51	83	
TD220-0062	6.2mm	51	83	
TD220-0063	6.3mm	51	83	
TD220-0064	6.4mm	51	83	
TD220-0065	6.5mm	51	83	
TD220-0066	6.6mm	54	89	
TD220-0067	6.7mm	54	89	
TD220-0068	6.8mm	54	89	
TD220-0069	6.9mm	54	89	
TD220-0070	7.0mm	54	89	
TD220-0071	7.1mm	54	89	
TD220-0072	7.2mm	54	89	

CODE	d ₁	l ₂	l ₁	BAHT
TD220-0073	7.3mm	54	89	
TD220-0074	7.4mm	54	89	
TD220-0075	7.5mm	60	95	
TD220-0076	7.6mm	60	95	
TD220-0077	7.7mm	60	95	
TD220-0078	7.8mm	60	95	
TD220-0079	7.9mm	60	95	
TD220-0080	8.0mm	60	95	
TD220-0081	8.1mm	60	95	
TD220-0082	8.2mm	60	95	
TD220-0083	8.3mm	64	102	
TD220-0084	8.4mm	64	102	
TD220-0085	8.5mm	64	102	
TD220-0086	8.6mm	64	102	
TD220-0087	8.7mm	64	102	
TD220-0088	8.8mm	64	102	
TD220-0089	8.9mm	64	102	
TD220-0090	9.0mm	64	102	
TD220-0091	9.1mm	64	102	
TD220-0092	9.2mm	70	108	
TD220-0093	9.3mm	70	108	
TD220-0094	9.4mm	70	108	
TD220-0095	9.5mm	70	108	
TD220-0096	9.6mm	73	114	
TD220-0097	9.7mm	73	114	
TD220-0098	9.8mm	73	114	
TD220-0099	9.9mm	73	114	
TD220-0100	10.0mm	73	114	
TD220-0105	10.5mm	73	114	
TD220-0110	11.0mm	73	114	
TD220-0115	11.5mm	76	121	
TD220-0120	12.0mm	76	121	



Inch.

CODE	d ₁	l ₂	l ₁	d ₂	BAHT
RM300-I003	3/64	3/8	1-1/2	0.0410	
RM300-I004	1/16	3/8	1-1/2	0.0520	
RM300-I005	5/64	1/2	1-3/4	0.0625	
RM300-I006	3/32	1/2	2"	0.0781	
RM300-I007	7/64	5/8	2-1/4	0.0938	
RM300-I008	1/8	5/8	2-1/4	0.1094	
RM300-I009	9/64	3/4	2-1/2	0.1250	
RM300-I010	5/32	3/4	2-1/2	0.1406	
RM300-I011	11/64	7/8	2-3/4	0.1562	
RM300-I012	3/16	7/8	2-3/4	0.1719	
RM300-I013	13/64	1"	3"	0.1875	
RM300-I014	7/32	1"	3"	0.1875	
RM300-I015	15/64	1"	3"	0.2188	
RM300-I016	1/4	1"	3"	0.2188	
RM300-I017	17/64	1-1/8	3-1/4	0.2500	
RM300-I018	9/32	1-1/8	3-1/4	0.2500	

CODE	d ₁	l ₂	l ₁	d ₂	BAHT
RM300-I019	19/64	1-1/8	3-1/4	0.2812	
RM300-I020	5/16	1-1/8	3-1/4	0.2812	
RM300-I021	21/64	1-1/4	3-1/2	0.3125	
RM300-I022	11/32	1-1/4	3-1/2	0.3125	
RM300-I023	23/64	1-1/4	3-1/2	0.3125	
RM300-I024	3/8	1-1/4	3-1/2	0.3594	
RM300-I025	25/64	1-1/4	3-1/2	0.3750	
RM300-I026	13/32	1-1/4	3-1/2	0.3750	
RM300-I027	27/64	1-3/8	3-3/4	0.3750	
RM300-I028	7/16	1-3/8	3-3/4	0.3750	
RM300-I029	29/64	1-3/8	3-3/4	0.4375	
RM300-I030	15/32	1-3/8	3-3/4	0.4375	
RM300-I031	31/64	1-1/2	4"	0.4375	
RM300-I032	1/2	1-1/2	4"	0.4375	
RM300-I036	9/16				
RM300-I040	5/8				

mm.

CODE	d ₁	l ₂	l ₁	d ₂	BAHT
RM300-0008	0.8	10	38	0.70	
RM300-0009	0.9	10	38	0.80	
RM300-0010	1.0	10	38	0.80	
RM300-0011	1.1	10	38	1.00	
RM300-0012	1.2	10	38	1.04	
RM300-0013	1.3	10	38	1.04	
RM300-0014	1.4	10	38	1.32	
RM300-0015	1.5	10	38	1.32	
RM300-0016	1.6	10	38	1.32	
RM300-0017	1.7	12	44	1.59	
RM300-0018	1.8	12	44	1.59	
RM300-0019	1.9	12	44	1.59	
RM300-0020	2.0	12	44	1.59	
RM300-0021	2.1	12	50	1.98	
RM300-0022	2.2	12	50	1.98	
RM300-0023	2.3	12	50	1.98	
RM300-0024	2.4	12	50	1.98	
RM300-0025	2.5	16	57	2.38	
RM300-0026	2.6	16	57	2.38	
RM300-0027	2.7	16	57	2.38	
RM300-0028	2.8	16	57	2.38	
RM300-0029	2.9	16	57	2.78	
RM300-0030	3.0	16	57	2.78	
RM300-0031	3.1	16	57	2.78	
RM300-0032	3.2	16	57	2.78	
RM300-0033	3.3	19	64	2.78	
RM300-0034	3.4	19	64	2.78	
RM300-0035	3.5	19	64	3.57	
RM300-0036	3.6	19	64	3.57	
RM300-0037	3.7	19	64	3.57	
RM300-0038	3.8	19	64	3.57	
RM300-0039	3.9	19	64	3.57	
RM300-0040	4.0	19	64	3.57	
RM300-0041	4.1	22	70	3.97	
RM300-0042	4.2	22	70	3.97	

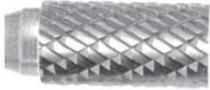
CODE	d ₁	l ₂	l ₁	d ₂	BAHT
RM300-0043	4.3	22	70	3.97	
RM300-0044	4.4	22	70	3.97	
RM300-0045	4.5	22	70	4.37	
RM300-0046	4.6	22	70	4.37	
RM300-0047	4.7	22	70	4.37	
RM300-0048	4.8	22	70	4.37	
RM300-0049	4.9	22	70	4.76	
RM300-0050	5.0	25	76	4.76	
RM300-0051	5.1	25	76	4.76	
RM300-0052	5.2	25	76	4.76	
RM300-0053	5.3	25	76	4.76	
RM300-0054	5.4	25	76	4.76	
RM300-0055	5.5	25	76	4.76	
RM300-0056	5.6	25	76	4.76	
RM300-0057	5.7	25	76	5.56	
RM300-0058	5.8	25	76	5.56	
RM300-0059	5.9	25	76	5.56	
RM300-0060	6.0	25	76	5.56	
RM300-0061	6.1	25	76	5.56	
RM300-0062	6.2	25	76	5.56	
RM300-0063	6.3	25	76	5.56	
RM300-0064	6.4	29	83	6.35	
RM300-0065	6.5	29	83	6.35	
RM300-0066	6.6	29	83	6.35	
RM300-0067	6.7	29	83	6.35	
RM300-0068	6.8	29	83	6.35	
RM300-0069	6.9	29	83	6.35	
RM300-0070	7.0	29	83	6.35	
RM300-0071	7.1	29	83	6.35	
RM300-0072	7.2	29	83	6.35	
RM300-0073	7.3	29	83	7.14	
RM300-0074	7.4	29	83	7.14	
RM300-0075	7.5	29	83	7.14	
RM300-0076	7.6	29	83	7.14	
RM300-0077	7.7	29	83	7.14	

CODE	d ₁	l ₂	l ₁	d ₂	BAHT
RM300-0078	7.8	29	83	7.14	
RM300-0079	7.9	29	83	7.14	
RM300-0080	8.0	29	83	7.14	
RM300-0081	8.1	32	89	7.94	
RM300-0082	8.2	32	89	7.94	
RM300-0083	8.3	32	89	7.94	
RM300-0084	8.4	32	89	7.94	
RM300-0085	8.5	32	89	7.94	
RM300-0086	8.6	32	89	7.94	
RM300-0087	8.7	32	89	7.94	
RM300-0088	8.8	32	89	7.94	
RM300-0089	8.9	32	89	7.94	
RM300-0090	9.0	32	89	7.94	
RM300-0091	9.1	32	89	7.94	
RM300-0092	9.2	32	89	9.13	
RM300-0093	9.3	32	89	9.13	
RM300-0094	9.4	32	89	9.13	
RM300-0095	9.5	32	89	9.13	
RM300-0096	9.6	32	89	9.13	
RM300-0097	9.7	32	89	9.13	
RM300-0098	9.8	32	89	9.13	
RM300-0099	9.9	32	89	9.53	
RM300-0100	10.0	32	89	9.53	
RM300-0105	10.5	32	89	9.53	
RM300-0110	11.0	35	95	9.53	
RM300-0115	11.5	35	95	9.53	
RM300-0120	12.0	38	102	11.11	
RM300-0125	12.5	38	102	11.11	
RM300-0130	13.0	38	102	11.11	
RM300-0140	14.0	38	102		
RM300-0150	15.0	38	102		
RM300-0160	16.0	38	102		

尺寸	公差		刃數
	d ₁	d ₂	
0.80mm – 6.30mm	+0.0025/+0.0102mm	+0.000/-0.025mm	4
6.40mm – 13mm	+0.0025/+0.0127mm	+0.000/-0.025mm	6



MADE IN USA



แกน 3 mm และ แกน 6 mm

MASTER CUT

ลักษณะ	รหัส	ขนาด	แกน	คมกัด	ยาว	ราคา
	SA-41M	1.6	3.0 mm	4.8	38.1	
	SA-42M	2.4		11.1	38.1	
	SA-43M	3.0		14.3	38.1	
	SA-51M	6.4		12.7	44.5	
	SA-1M	6		15.9	50.8	
	SA-2M	7.9		19.1	63.5	
	6.0 mm	SA-3M	9.5	19.1	63.5	
		SA-4M	11.1	25.4	69.9	
		SA-5M	12.7	25.4	69.9	
		SA-6M	15.9	25.4	69.9	
		SA-7M	19.1	25.4	69.9	
		SA-9M	25.4	25.4	69.9	

ลักษณะ	รหัส	ขนาด	แกน	คมกัด	ยาว	ราคา
	SF-41M	3	3.0 mm	3.4	38.1	
	SF-42M	3		12.7	38.1	
	SF-51M	6.4		12.7	44.5	
	SF-1M	6		15.9	50.8	
	SF-3M	9.5		19.1	63.5	
	SF-4M	11.1		25.4	69.9	
	6.0 mm	SF-5M	12.7	25.4	69.9	
		SF-6M	15.9	25.4	69.9	
		SF-7M	19.1	25.4	69.9	
		SF-14M	19.1	31.8	76.2	
		SF-15M	19.1	38.1	82.9	

ลักษณะ	รหัส	ขนาด	แกน	คมกัด	ยาว	ราคา
	SB-41M	1.6	3.0 mm	6.4	38.1	
	SB-42M	2.4		11.1	38.1	
	SB-43M	3		14.3	38.1	
	SB-51M	6.4		4.8	36.5	
	SB-1M	6		15.9	50.8	
	SB-2M	7.9		19.1	63.5	
	6.0 mm	SB-3M	9.5	19.1	63.5	
		SB-4M	11.1	25.4	69.9	
		SB-5M	12.7	25.4	69.9	
		SB-6M	15.9	25.4	69.9	
		SB-7M	19.1	25.4	69.9	
		SB-9M	25.4	25.4	69.9	

ลักษณะ	รหัส	ขนาด	แกน	คมกัด	ยาว	ราคา
	SG-42M	3	3.0 mm	7.9	38.1	
	SG-43M	3		9.5	38.1	
	SG-44M	3		12.7	38.1	
	SG-51M	6.4		12.7	69.9	
	6.0 mm	SG-1M	6	15.9	50.8	
		SG-2M	7.9	19.1	63.5	
		SG-3M	9.5	19.1	63.5	
		SG-5M	12.7	25.4	69.9	
		SG-6M	15.9	25.4	69.9	
		SG-7M	19.1	25.4	69.9	

ลักษณะ	รหัส	ขนาด	แกน	คมกัด	ยาว	ราคา
	SC-41M	2.4	3.0 mm	11.1	38.1	
	SC-42M	3		14.3	38.1	
	SC-51M	6.4		12.7	44.5	
	SC-1M	6		15.9	50.8	
	6.0 mm	SC-2M	7.9	19.1	63.5	
		SC-3M	9.5	19.1	63.5	
		SC-4M	11.1	25.4	69.9	
		SC-5M	12.7	25.4	69.9	
		SC-6M	15.9	25.4	69.9	
		SC-7M	19.1	25.4	69.9	

ลักษณะ	รหัส	ขนาด	แกน	คมกัด	ยาว	ราคา
	SH-41M	3	3.0 mm	6.4	38.1	
	SH-2M	7.9	19.1	63.5		
	SH-5M	12.7	31.8	76.2		
	6.0 mm	SH-6M	15.9	36.5	81	
		SH-7M	19.1	41.3	85.7	

ลักษณะ	รหัส	ขนาด	แกน	คมกัด	ยาว	ราคา
	SD-41M	2.4	3.0 mm	2.4	38.1	
	SD-42M	3		3	38.1	
	SD-51M	6.4		6.4	38.1	
	SD-1M	6		6	50.8	
	6.0 mm	SD-2M	7.9	7.9	51.6	
		SD-3M	9.5	9.5	57.8	
		SD-4M	11.1	11.1	54.4	
		SD-5M	12.7	12.7	56	
		SD-6M	15.9	15.9	58.7	
		SD-7M	19.1	19.1	61.9	
SD-9M	25.4	25.4	68.3			

ลักษณะ	รหัส	ขนาด	แกน	คมกัด	ยาว	ราคา
	SL-41M	3	3.0 mm	9.5	38.1	
	SL-42M	3	12.7	38.1		
	6.0 mm	SL-1M	6	15.9	50.8	
		SL-2M	7.9	22.2	69.9	
	SL-3M	9.5	27	74.6		
	SL-4M	12.7	31.8	76.2		
	SL-5M	15.9	33.3	81		
	SL-7M	19.1	38.1	85.7		

ลักษณะ	รหัส	ขนาด	แกน	คมกัด	ยาว	ราคา
	SE-41M	3	3.0 mm	5.6	38.1	
	SE-51M	6.4	9.5	41.3		
	SE-1M	6	9.5	50.8		
	6.0 mm	SE-3M	9.5	15.9	52.8	
		SE-5M	12.7	22.2	66.7	
		SE-6M	15.9	25.4	69.9	
	SE-7M	19.1	25.4	69.9		

ลักษณะ	รหัส	ขนาด	แกน	คมกัด	ยาว	ราคา
	SM-41M	3	3.0 mm	9.5	38.1	
	SM-42M	3		11.1	38.1	
	SM-43M	3		15.9	38.1	
	SM-51M	6.4		12.7	44.5	
	6.0 mm	SM-1M	6	12.7	50.8	
		SM-2M	6	19.1	50.8	
		SM-3M	6	25.4	50.8	
		SM-4M	9.5	15.9	63.5	
		SM-5M	12.7	22.2	69.9	
		SM-6M	15.9	25.4	73	

ลักษณะ	รหัส	ขนาด	แกน	คมกัด	ยาว	ราคา
	SN-42M	3	3.0 mm	4.8	38.1	
	SN-51M	6.4	6.4	38.1		
	6.0 mm	SN-1M	6	7.6	56.8	
		SN-2M	9.5	9.5	57.2	
	SN-3M	12.7	12.7	57.2		
	SN-6M	15.9	18.1	63.5		
	SN-7M	19.1	15.9	60.2		



美國製造 MADE IN USA



SINGLE CUT

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว	ราคา
	SA-42MS	2.4	3.0 mm	11.1	38.1	
	SA-43MS	3.0		14.3	38.1	
	SA-51MS	6.4		12.7	44.5	

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว	ราคา
	SF-42MS	3	3.0 mm	12.7	38.1	
	SF-51MS	6.4		12.7	44.5	

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว	ราคา
	SB-43MS	3	3.0 mm	14.3	38.1	
	SB-51MS	6.4		4.8	36.5	

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว	ราคา
	SG-44MS	3	3.0 mm	12.7	38.1	
	SG-51MS	6.4		12.7	69.9	

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว	ราคา
	SC-41MS		3.0 mm	11.1	38.1	
	SC-42MS			14.3	38.1	
	SC-51MS			12.7	44.5	

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว	ราคา
	SH-41MS	3	3.0 mm	6.4	38.1	

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว	ราคา
	SD-41MS	2.4	3.0 mm	2.4	38.1	
	SD-42MS	3		3	38.1	
	SD-51MS	6.4		6.4	38.1	

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว	ราคา
	SM-41MS	3	3.0 mm	9.5	38.1	
	SM-42MS	3		11.1	38.1	
	SM-43MS	3		15.9	38.1	
	SM-51MS	6.4		12.7	44.5	

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว	ราคา
	SE-41MS	3	3.0 mm	5.6	38.1	
	SE-51MS	6.4		9.5	41.3	

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว	ราคา
	SN-42MS	3	3.0 mm	4.8	38.1	
	SN-51MS	6.4		6.4	38.1	



แกน 6 mm (รุ่นสำหรับอลูมิเนียม)

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว
	SA-1MA	6	15.9	50.8	
	SA-3MA	9.5	19.1	63.5	
	SA-5MA	12.7	25.4	69.9	
	SA-6MA	15.9	25.4	69.9	
	SA-7MA	19.1	25.4	69.9	

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว
	SE-3MA	9.5	15.9	60.3	
	SE-5MA	12.7	22.2	66.7	
	SE-6MA	15.9	25.4	69.9	

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว
	SC-1MA	6	15.9	50.8	
	SC-3MA	9.5	19.1	63.5	
	SC-5MA	12.7	25.4	69.9	
	SC-6MA	15.9	25.4	69.9	
	SC-7MA	19.1	25.4	69.9	

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว
	SF-1MA	6	15.9	50.8	
	SF-3MA	9.5	19.1	63.5	
	SF-5MA	12.7	25.4	69.9	
	SF-6MA	15.9	25.4	76.2	

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว
	SD-1MA	6	6	50.8	
	SD-3MA	9.5	9.5	52.8	
	SD-5MA	12.7	12.7	56	
	SD-6MA	15.9	15.9	58.7	

ลักษณะ	รหัส	ขนาด	แกน	คมกััด	ยาว
	SL-3MA	9.5	27	74.6	
	SL-4MA	12.7	31.8	76.2	
	SL-5MA	15.9	33.3	81	



2F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM102-0004	0.4	3	1	39	
EM102-0005	0.5	3	1.5	39	
EM102-0006	0.6	3	1.8	39	
EM102-0007	0.7	3	2.1	39	
EM102-0008	0.8	3	2.5	39	
EM102-0009	0.9	3	2.5	39	
EM102-0010	1	3	3	39	
EM102-0015	1.5	3	5	39	
EM102-0020	2	3	7	39	
EM102-0025	2.5	3	7	39	
EM102-0030	3	3	9	39	
EM102-0035	3.5	4	12	51	
EM102-0040	4	4	14	51	
EM102-0045	4.5	5	14	51	
EM102-0050	5	5	16	51	
EM102-0060	6	6	19	64	
EM102-0070	7	8	19	64	
EM102-0080	8	8	21	64	
EM102-0090	9	10	22	70	
EM102-0100	10	10	22	70	
EM102-0110	11	11	25	70	
EM102-0120	12	12	25	76	
EM102-0140	14	14	30	89	
EM102-0160	16	16	32	89	
EM102-0180	18	18	35	102	
EM102-0200	20	20	38	102	

2F หัวมน



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM132-0004	0.4	3	1	39	
EM132-0005	0.5	3	1.5	39	
EM132-0006	0.6	3	1.8	39	
EM132-0007	0.7	3	2.1	39	
EM132-0008	0.8	3	2.5	39	
EM132-0009	0.9	3	2.5	39	
EM132-0010	1	3	3	39	
EM132-0015	1.5	3	5	39	
EM132-0020	2	3	7	39	
EM132-0025	2.5	3	7	39	
EM132-0030	3	3	9	39	
EM132-0035	3.5	4	12	51	
EM132-0040	4	4	14	51	
EM132-0045	4.5	5	14	51	
EM132-0050	5	5	16	51	
EM132-0060	6	6	19	64	
EM132-0070	7	8	19	64	
EM132-0080	8	8	21	64	
EM132-0090	9	10	22	70	
EM132-0100	10	10	22	70	
EM132-0120	12	12	25	76	
EM132-0140	14	14	30	89	
EM132-0160	16	16	32	89	
EM132-0200	20	20	38	102	

4F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM104-0010	1	3	3	39	
EM104-0015	1.5	3	5	39	
EM104-0020	2	3	7	39	
EM104-0025	2.5	3	7	39	
EM104-0030	3	3	9	39	
EM104-0035	3.5	4	12	51	
EM104-0040	4	4	14	51	
EM104-0045	4.5	5	14	51	
EM104-0050	5	5	16	51	
EM104-0060	6	6	19	64	
EM104-0070	7	8	19	64	
EM104-0080	8	8	21	64	
EM104-0090	9	10	22	70	
EM104-0100	10	10	22	70	
EM104-0110	11	11	25	70	
EM104-0120	12	12	25	76	
EM104-0140	14	14	30	89	
EM104-0160	16	16	32	89	
EM104-0180	18	18	35	102	
EM104-0200	20	20	38	102	
EM104-0250	25	25	38	102	

4F รุ่่นยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM114-0030	3	3	19	57	
EM114-0040	4	4	19	57	
EM114-0050	5	5	25	64	
EM114-0060	6	6	28	76	
EM114-0080	8	8	29	76	
EM114-0100	10	10	32	76	
EM114-0120	12	12	51	102	
EM114-0160	16	16	57	127	
EM114-0200	20	20	57	127	
EM114-0250	25	25	57	127	

4F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM104-I004	1/16	1/8	3/16	1-1/2	
EM104-I005	5/64	1/8	1/4	1-1/2	
EM104-I006	3/32	1/8	5/16	1-1/2	
EM104-I008	1/8	1/8	1/2	1-1/2	
EM104-I012	3/16	3/16	5/8	2"	
EM104-I016	1/4	1/4	3/4	2-1/2	
EM104-I020	5/16	5/16	13/16	2-1/2	
EM104-I024	3/8	3/8	7/8	2-1/2	
EM104-I032	1/2	1/2	1"	3"	
EM104-I040	5/8	5/8	1-1/4	3-1/2	
EM104-I048	3/4	3/4	1-1/2	4"	

4F รุ่่นยาวพิเศษ



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM124-0030	3	3	25	76	
EM124-0040	4	4	28	76	
EM124-0050	5	5	32	76	
EM124-0060	6	6	38	102	
EM124-0080	8	8	42	102	
EM124-0100	10	10	45	102	
EM124-0120	12	12	76	153	
EM124-0160	16	16	76	153	
EM124-0200	20	20	76	153	
EM124-0250	25	25	76	153	



MADE IN USA **TiALN-COATED**

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CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM154-I004	1/16	1/8	3/16	1-1/2	
EM154-I005	5/64	1/8	1/4	1-1/2	
EM154-I006	3/32	1/8	5/16	1-1/2	
EM154-I008	1/8	1/8	1/2	1-1/2	
EM154-I010	5/32	3/16	9/16	2"	
EM154-I012	3/16	3/16	5/8	2"	
EM154-I016	1/4	1/4	3/4	2-1/2	
EM154-I020	5/16	5/16	13/16	2-1/2	
EM154-I024	3/8	3/8	1"	2-1/2	
EM154-I032	1/2	1/2	1"	3"	
EM154-I040	5/8	5/8	1-1/4	3-1/2	
EM154-I048	3/4	3/4	1-1/2	4"	

2F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM152-I004	1/16	1/8	3/16	1-1/2	
EM152-I005	5/64	1/8	1/4	1-1/2	
EM152-I006	3/32	1/8	5/16	1-1/2	
EM152-I008	1/8	1/8	1/2	1-1/2	
EM152-I010	5/32	3/16	9/16	2"	
EM152-I012	3/16	3/16	5/8	2"	
EM152-I016	1/4	1/4	3/4	2-1/2	
EM152-I020	5/16	5/16	13/16	2-1/2	
EM152-I024	3/8	3/8	7/8	2-1/2	
EM152-I032	1/2	1/2	1"	3"	
EM152-I040	5/8	5/8	1-1/4	3-1/2	
EM152-I048	3/4	3/4	1-1/2	4"	

4F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM154-0010	1	3	3	39	
EM154-0015	1.5	3	5	39	
EM154-0020	2	3	7	39	
EM154-0025	2.5	3	7	39	
EM154-0030	3	3	10	39	
EM154-0035	3.5	4	12	51	
EM154-0040	4	4	14	51	
EM154-0045	4.5	5	14	51	
EM154-0050	5	5	16	51	
EM154-0060	6	6	19	64	
EM154-0070	7	8	19	64	
EM154-0080	8	8	21	64	
EM154-0090	9	10	22	70	
EM154-0100	10	10	25	70	
EM154-0110	11	11	25	70	
EM154-0120	12	12	25	76	
EM154-0140	14	14	30	89	
EM154-0160	16	16	32	89	
EM154-0180	18	18	35	102	
EM154-0200	20	20	38	102	
EM154-0250	25	25	38	102	

2F



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM152-0004	0.4	3	1	39	
EM152-0005	0.5	3	1.5	39	
EM152-0006	0.6	3	1.8	39	
EM152-0007	0.7	3	2.1	39	
EM152-0008	0.8	3	2.5	39	
EM152-0009	0.9	3	2.5	39	
EM152-0010	1	3	3	39	
EM152-0015	1.5	3	5	39	
EM152-0020	2	3	7	39	
EM152-0025	2.5	3	7	39	
EM152-0030	3	3	9	39	
EM152-0035	3.5	4	12	51	
EM152-0040	4	4	14	51	
EM152-0045	4.5	5	14	51	
EM152-0050	5	5	16	51	
EM152-0060	6	6	19	64	
EM152-0070	7	8	19	64	
EM152-0080	8	8	21	64	
EM152-0090	9	10	22	70	
EM152-0100	10	10	22	70	
EM152-0110	11	11	25	70	
EM152-0120	12	12	25	76	
EM152-0140	14	14	30	89	
EM152-0160	16	16	32	89	
EM152-0180	18	18	35	102	
EM152-0200	20	20	38	102	
EM152-0250	25	25	38	102	

4F รูนยาว



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
EM164-0030	3	3	19	57	
EM164-0040	4	4	19	57	
EM164-0050	5	5	25	64	
EM164-0060	6	6	28	76	
EM164-0080	8	8	29	76	
EM164-0100	10	10	32	76	
EM164-0120	12	12	51	102	
EM164-0140	14	14	57	127	
EM164-0160	16	16	57	127	
EM164-0180	18	18	57	127	
EM164-0200	20	20	57	127	
EM164-0250	25	25	57	127	

★TiALN塗層是一種能抵受高溫切削的塗層。這塗層對不銹鋼、鎳合金、高溫合金及鈦合金之鑽銑應用時，能達致良好效果。TiALN塗層當銑切淬火鋼材質能發揮更佳效果。因這塗層有阻礙溫度上升的特性，故它能在沒有加入冷卻劑的情況下亦能表現良好。從而節省生產成本，更能抵銷因塗層而增加之費用。

規格	刃徑公差
1-25mm	+0.000mm -0.051mm



MADE IN USA **TiALN-COATED**

2F รุ่นยาว



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM162-0030	3	3	19	57	
EM162-0040	4	4	19	57	
EM162-0050	5	5	25	64	
EM162-0060	6	6	28	76	
EM162-0080	8	8	29	76	
EM162-0100	10	10	32	76	
EM162-0120	12	12	51	102	
EM162-0140	14	14	57	127	
EM162-0160	16	16	57	127	
EM162-0180	18	18	57	127	
EM162-0200	20	20	57	127	
EM162-0250	25	25	57	127	

2F รุ่นยาวพิเศษ



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM172-0030	3	3	25	76	
EM172-0040	4	4	28	76	
EM172-0050	5	5	32	76	
EM172-0060	6	6	38	102	
EM172-0080	8	8	42	102	
EM172-0100	10	10	45	102	
EM172-0120	12	12	76	153	
EM172-0140	14	14	76	153	
EM172-0160	16	16	76	153	
EM172-0180	18	18	76	153	
EM172-0200	20	20	76	153	
EM172-0250	25	25	76	153	

4F รุ่นยาวพิเศษ



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM174-0030	3	3	25	76	
EM174-0040	4	4	28	76	
EM174-0050	5	5	32	76	
EM174-0060	6	6	38	102	
EM174-0080	8	8	42	102	
EM174-0100	10	10	45	102	
EM174-0120	12	12	76	153	
EM174-0140	14	14	76	153	
EM174-0160	16	16	76	153	
EM174-0180	18	18	76	153	
EM174-0200	20	20	76	153	
EM174-0250	25	25	76	153	

4F หัวมน



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM184-0010	1	3	3	39	
EM184-0015	1.5	3	5	39	
EM184-0020	2	3	7	39	
EM184-0030	3	3	10	39	
EM184-0040	4	4	14	51	
EM184-0050	5	5	16	51	
EM184-0060	6	6	19	64	
EM184-0080	8	8	21	64	
EM184-0100	10	10	22	70	
EM184-0120	12	12	25	76	
EM184-0160	16	16	32	89	
EM184-0200	20	20	38	102	

2F หัวมน



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM182-I008	1/8	1/8	1/2	1-1/2	
EM182-I010	5/32	3/16	9/16	2	
EM182-I012	3/16	3/16	5/8	2	
EM182-I016	1/4	1/4	3/4	2-1/2	
EM182-I020	5/16	5/16	13/16	2-1/2	
EM182-I024	3/8	3/8	1	2-1/2	
EM182-I032	1/2	1/2	1	3	
EM182-I040	5/8	5/8	1-1/4	3-1/2	
EM182-I048	3/4	3/4	1-1/2	4	

2F หัวมน



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM182-0004	0.4	3	1	39	
EM182-0005	0.5	3	1.5	39	
EM182-0006	0.6	3	1.8	39	
EM182-0007	0.7	3	2.1	39	
EM182-0008	0.8	3	2.5	39	
EM182-0009	0.9	3	2.5	39	
EM182-0010	1	3	3	39	
EM182-0015	1.5	3	5	39	
EM182-0020	2	3	7	39	
EM182-0025	2.5	3	8	39	
EM182-0030	3	3	9	39	
EM182-0035	3.5	4	12	51	
EM182-0040	4	4	14	51	
EM182-0045	4.5	5	14	51	
EM182-0050	5	5	16	51	
EM182-0060	6	6	19	64	
EM182-0070	7	8	19	64	
EM182-0080	8	8	21	64	
EM182-0090	9	10	22	70	
EM182-0100	10	10	22	70	
EM182-0110	11	11	25	70	
EM182-0120	12	12	25	76	
EM182-0140	14	14	30	89	
EM182-0160	16	16	32	89	
EM182-0180	18	18	35	102	
EM182-0200	20	20	38	102	
EM182-0250	25	25	38	102	

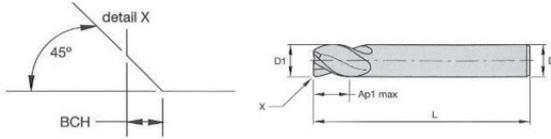
2F หัวมน รุ่นยาว



CODE	ขนาด	แกน	คมกัด	ยาว	BAHT
EM198-0030	3	3	6	76	
EM198-0040	4	4	8	76	
EM198-0050	5	5	10	76	
EM198-0060	6	6	12	100	
EM198-0080	8	8	14	100	
EM198-0100	10	10	18	100	
EM198-0120	12	12	22	152	
EM198-0140	14	14	26	152	
EM198-0160	16	16	30	152	
EM198-0180	18	18	34	152	
EM198-0200	20	20	38	152	



4777系列
4刃(BCH)
 (螺旋角38°)



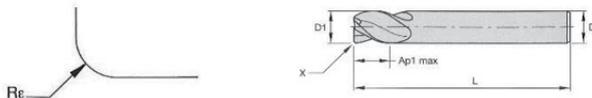
CODE	ขนาด	แกน	คมกััด	ยาว	BCH	BAHT
WID-1920424	4	6	12	55	0.4	
WID-1920427	5	6	13	57	0.4	
WID-1920430	6	6	13	57	0.4	
WID-1920432	8	8	16	63	0.4	
WID-1920434	10	10	22	72	0.5	
WID-1920436	12	12	26	83	0.5	
WID-1920437	14	14	26	83	0.5	
WID-1920438	16	16	32	92	0.5	
WID-1920442	20	20	38	104	0.5	

4777系列
4刃(尖角)



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
WID-3077757	4	6	12	55	
WID-3077756	5	6	13	57	
WID-3077755	6	6	13	57	
WID-3077753	8	8	16	63	
WID-3077751	10	10	22	72	
WID-3077749	12	12	26	83	
WID-3077748	16	16	32	92	
WID-3077747	20	20	38	104	

4777系列
4刃(R角)



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
WID-3077746	4 X R0.2	6	12	55	
WID-3077745	5 X R0.2	6	13	57	
WID-3077744	6 X R0.2	6	13	57	
WID-3077742	8 X R0.2	8	16	63	
WID-3077740	10 X R0.3	10	22	72	
WID-3077739	12 X R0.3	12	26	83	
WID-3077738	16 X R0.3	16	32	92	
WID-3077737	20 X R0.3	20	38	104	

以上4777及47N7系列適合高速切削HRC55°以下淬火鋼、高溫合金、鎳鈦合金、不鏽鋼、鑄鐵等難切削材料。

47N7系列
4刃(細頸)



CODE	ขนาด	แกน	คมกััด	ยาว	L3	BAHT
WID-3462452	4 X R0.5	6	12	55	16	
WID-3462458	6 X R0.5	6	13	57	21	
WID-3462463	8 X R0.5	8	16	63	27	
WID-3462469	10 X R0.5	10	22	72	32	
WID-3462476	12 X R0.5	12	26	83	38	
WID-3462485	16 X R1	16	32	92	44	
WID-3462491	20 X R1	20	38	104	55	

4970系列
粗皮刀
 (螺旋角45°)



CODE	ขนาด	แกน	คมกััด	ยาว	พื้น	BAHT
WID-1657241	6	6	13	57	4	
WID-1657243	8	8	16	63	4	
WID-1657245	10	10	22	72	4	
WID-1657247	12	12	26	83	4	
WID-1657249	16	16	32	92	4	

以上適合高速切削HRC60°以下淬火鋼、鈦合金、不鏽鋼及高溫合金等難切削材料。

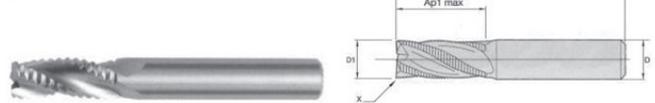
NINA系列
4刃(BCH)



CODE	ขนาด	แกน	คมกััด	ยาว	BCH	BAHT
WID-3657761	4	6	7	38	0.4	
WID-3657762	6	6	8	38	0.4	
WID-3657763	8	8	11	43	0.4	
WID-3657764	10	10	13	50	0.5	
WID-3657765	12	12	15	55	0.5	

以上適合高速切削合金鋼、高溫合金、不鏽鋼等難切削材料。

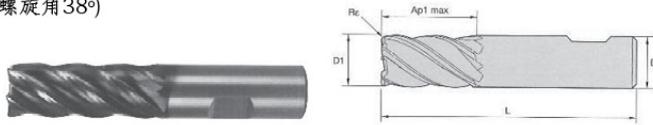
4909系列(鋁合金用)
3刃



CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
WID-1657125	6	6	13	57	
WID-1657127	8	8	16	63	
WID-1657129	10	10	22	72	
WID-1657132	12	12	26	83	
WID-1657140	16	16	32	92	

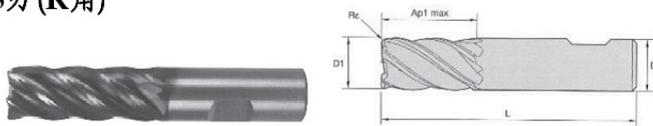


5777系列
5刃(尖角)
 (螺旋角38°)



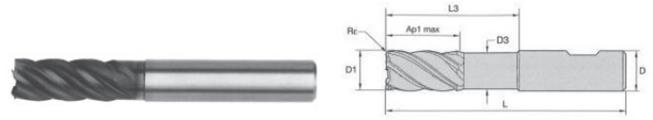
CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
WID-3524586	4	6	11	55	
WID-3524589	6	6	13	57	
WID-3524592	8	8	19	63	
WID-3524595	10	10	22	72	
WID-3524597	12	12	26	83	
WID-3524600	16	16	32	92	
WID-3524603	20	20	38	104	

5777系列
5刃(R角)



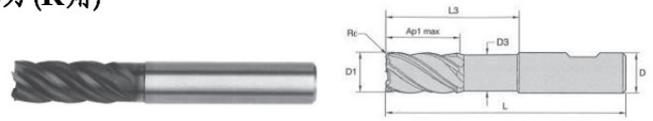
CODE	ขนาด	แกน	คมกััด	ยาว	BAHT
WID-3524587	4 X R0.25	6	11	55	
WID-3524588	5 X R0.25	6	13	57	
WID-3524590	6 X R0.4	6	13	57	
WID-3524593	8 X R0.5	8	19	63	
WID-3524596	10 X R0.5	10	22	72	
WID-3524598	12 X R0.75	12	26	83	
WID-3524601	16 X R0.75	16	32	92	
WID-3524605	20 X R0.75	20	38	104	

57N8系列
5刃(尖角)



CODE	ขนาด	แกน	คมกััด	ยาว	L3	BAHT
WID-3524626	6	6	13	63	18	
WID-3524629	8	8	19	76	24	
WID-3524632	10	10	22	76	30	
WID-3524646	12	12	26	83	36	

57N8系列
5刃(R角)



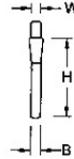
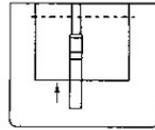
CODE	ขนาด	แกน	คมกััด	ยาว	L3	BAHT
WID-3524627	6 X R0.5	6	13	63	18	
WID-3524628	6 X R1	6	13	63	18	
WID-3524631	8 X R0.5	8	19	76	24	
WID-3685243	8 X R1	8	19	76	24	
WID-3524643	10 X R0.5	10	22	76	30	
WID-3524644	10 X R1	10	22	76	30	
WID-3524645	10 X R2	10	22	76	30	
WID-3524647	12 X R0.5	12	26	83	36	
WID-3524648	12 X R1	12	26	83	36	
WID-3524649	12 X R2	12	26	83	36	

以上5777及57N8系列適合高速切削HRC55° 以下淬火鋼、高溫合金、鎳鈦合金、不鏽鋼、鑄鐵等難切削材料。



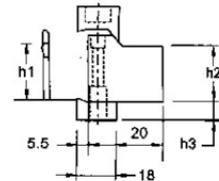
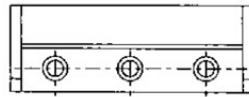
CUTTING HOLDER/ INSERTS/ PARTS

CUTTING HOLDER



CODE	MAX. DIA	W	B	H	L	A	INSERT	BAHT
SGTH26-2	50	2.2	2.4	21.4	100	25.4	GTN-2	
SGTH26-3	75	3	2.4	21.4	100	25.4	GTN-3	
SGTH32-3	100	3	2.4	25	150	31.3		
SGFH26-2	50	2.2	2.4	21.4	110	25.4	GFN-2	
SGFH26-3	75	3	2.4	21.4	110	25.4	GFN-3	
SGFH32-3	100	3	2.4	25	150	31.3		

CUTTING BLOCKS



CODE	h ₁	h ₂	h ₃	H	L	INSERT
SBN1216-26	12	16	6	30	90	
SBN1616-26	16	16	12	40	90	
SBN2020-26	20	20	8	40	90	
SBN2020-32	20	20	8	40	110	
SBN2520-32	25	20	13	50	110	

PARTS

मितเล็บรองพิน	CODE	BAHT	मितเล็บรองพิน	CODE	BAHT
	SMC-432			★ SMV-322	
	SMT-322			★ SMW-433	
	SMS-432			★ SMD-443	
				★ SMD-463	

สกรูรองพิน	ตัวยึด	สกรูรองพิน	KEY
CODE	BAHT	CODE	BAHT
LCS-510		CP50-22	FT7
LCS-511		CP50-24	FT8
LCS-513		CP50-25	FT9
LCS-520		CP50-26	FT10
LCS-617			FT15
LCS-619			FT20
LCS-520N			

สกรู INSERT					
CODE	SIZE	CODE	SIZE	CODE	SIZE
CS25060	M2.5 X 6.0	CS35095	M3.5 X 9.5		
CS25065	M2.5 X 6.5	CS35115	M3.5 X 11.5		
CS25080	M2.5 X 8.0	CS40090	M4.0 X 9.0		
CS30070	M3.0 X 7.0	CS40110	M4.0 X 11.0		
CS30080	M3.0 X 8.0	CS45110	M4.5 X 11.0		
CS35090	M3.5 X 9.0	CS50130	M5.0 X 13.0		
		CS60120	M6.0 X 12.0		



MADE IN SWITZERLAND

CODE	ลักษณะ	ขนาด และ เกรด	l	s	r	BAHT	
IS-T00055		CCMT 060204 NN LT10	6	2.38	0.4		
IS-T00056		CCMT 09T304 NN LT10	9	3.97	0.4		
IS-T00117		CCMT 09T308 NN LT10	9	3.97	0.8		
IS-T01456		CCMT 120404 NN LT10	12	4.76	0.4		
IS-T01457		CCMT 120408 NN LT10	12	4.76	0.8		
IS-T01776		CCMT 120412 NN LT10	12	4.76	1.2		
IS-T01888		CCMT 060204 NN LT1000	6	2.38	0.4		
IS-T01889		CCMT 09T304 NN LT1000	9	3.97	0.4		
IS-T01890		CCMT 09T308 NN LT1000	9	3.97	0.8		
IS-T01891		CCMT 120404 NN LT1000	12	4.76	0.4		
IS-T01892		CCMT 120408 NN LT1000	12	4.76	0.8		
IS-T01893		CCMT 120412 NN LT1000	12	4.76	1.2		
IS-T03049			CPMT 060204 NN LT10	6	2.38	0.4	
IS-T03051			CPMT 09T304 NN LT10	9	3.97	0.4	
IS-T03052	CPMT 09T308 NN LT10		9	3.97	0.8		
IS-T03088	CPMT 060204 NN LT1000		6	2.38	0.4		
IS-T03144	CPMT 060208 NN LT1000		6	2.38	0.8		
IS-T03145	CPMT 09T304 NN LT1000		9	3.97	0.4		
IS-T03146	CPMT 09T308 NN LT1000		9	3.97	0.8		
IS-T00491		CNMG 120404 NN LT10	12	4.76	0.4		
IS-T00059		CNMG 120408 NN LT10	12	4.76	0.8		
IS-T00061		CNMG 120412 NN LT10	12	4.76	1.2		
IS-T01966		CNMG 120408 NN LT10	12	4.76	0.8		
IS-T01895		CNMG 120404 NN LT1000	12	4.76	0.4		
IS-T01896		CNMG 120408 NN LT1000	12	4.76	0.8		
IS-T01897		CNMG 120412 NN LT1000	12	4.76	1.2		
IS-T01968		CNMG 120408 NM LT1000	12	4.76	0.8		
IS-T02741		CNMG 120408 NX LT1000	12	4.76	0.8		
IS-T00669			CNMM 120408 NR LT10	12	4.76	0.8	
IS-T00671	CNMM 120412 NR LT10		12	4.76	1.2		
IS-T00062		CNMP 120408 NN LT10	12	4.76	0.8		
IS-T00063		CNMP 120412 NN LT10	12	4.76	1.2		
IS-T01900		CNMP 120408 NN LT1000	12	4.76	0.8		
IS-T01901		CNMP 120412 NN LT1000	12	4.76	1.2		
IS-T04117		CNMP 120408 NN LT1025	12	4.76	0.8		
IS-T04118		CNMP 120412 NN LT1025	12	4.76	1.2		
IS-T04050			CNMA 120408 LT1005	12	4.76	0.8	
IS-T04051	CNMA 120412 LT1005		12	4.76	1.2		
IS-T00064		DCMT 070204 NN LT10	7	2.38	0.4		
IS-T00065		DCMT 11T304 NN LT10	11	3.97	0.4		
IS-T00721		DCMT 11T308 NN LT10	11	3.97	0.8		
IS-T01902		DCMT 070204 NN LT1000	7	2.38	0.4		
IS-T01903		DCMT 11T304 NN LT1000	11	3.97	0.4		
IS-T01904		DCMT 11T308 NN LT1000	11	3.97	0.8		
IS-T00066			DNMG 110404 NN LT10	11	4.76	0.4	
IS-T00675	DNMG 110408 NN LT10		11	4.76	0.8		
IS-T00476	DNMG 150404 NN LT10		15	4.76	0.4		
IS-T00475	DNMG 150408 NN LT10		15	4.76	0.8		
IS-T01021	DNMG 150412 NN LT10		15	4.76	1.2		
IS-T00583	DNMG 150604 NN LT10		15	6.35	0.4		
IS-T00067	DNMG 150608 NN LT10		15	6.35	0.8		
IS-T00672	DNMG 150612 NN LT10		15	6.35	1.2		
IS-T01905	DNMG 110404 NN LT1000		11	4.76	0.4		
IS-T01906	DNMG 110408 NN LT1000		11	4.76	0.8		
IS-T01907	DNMG 150404 NN LT1000		15	4.76	0.4		
IS-T01908	DNMG 150408 NN LT1000		15	4.76	0.8		
IS-T01909	DNMG 150412 NN LT1000		15	4.76	1.2		
IS-T03097	DNMG 150408 NX LT1000		15	4.76	0.8		
IS-T01910	DNMG 150604 NN LT1000		15	6.35	0.4		
IS-T01911	DNMG 150608 NN LT1000		15	6.35	0.8		
IS-T01912	DNMG 150612 NN LT1000		15	6.35	1.2		
IS-T03220	DNMG 150608 NX LT1000		15	6.35	0.8		

- ★ LT10適合加工非合金鋼、合金鋼、不鏽鋼、鑄鋼、鑄鐵、鈦合金、鎳合金
- ★ LT1000特別適合加工一類似鈦鎳合金等難加工材質.HRC55° 淬火鋼.
- ★ MP槽型為加工不鏽鋼及軟材質之首選 MA為加工鑄鐵首選
- ★ 另有詳細切削資料提供



CODE	ลักษณะ		ขนาด และ เกรด		l	s	r	BAHT
IS-T03241			DNMA 150608	LT1005	15	6.35	0.8	
IS-T03242			DNMA 150612	LT1005	15	6.35	1.2	
IS-T02157			DNUX 150608 R11	LT10	15	6.35	0.8	
IS-T02793			DNUX 150608 R11	LT1000	15	6.35	0.8	
IS-T00951			KNUX 160405 R	LT10	16	4.76	0.5	
IS-T03884			KNUX 160405 L	LT10	16	4.76	0.5	
IS-T00322			SNMG 120408 NN	LT10	12	4.76	0.8	
IS-T00323			SNMG 120412 NN	LT10	12	4.76	1.2	
IS-T01921			SNMG 120408 NN	LT1000	12	4.76	0.8	
IS-T01922			SNMG 120412 NN	LT1000	12	4.76	1.2	
IS-T03011			SNMG 120408 NX	LT1000	12	4.76	0.8	
IS-T03239			SNMA 120408	LT1005	12	4.76	0.8	
IS-T03240			SNMA 120412	LT1005	12	4.76	1.2	
IS-T01459			SCMT 09T304 NN	LT10	9	4.76	0.4	
IS-T01458			SCMT 09T308 NN	LT10	9	4.76	0.8	
IS-T01918			SCMT 09T304 NN	LT1000	9	4.76	0.4	
IS-T01919			SCMT 09T308 NN	LT1000	9	4.76	0.8	
IS-T00477			TCMT 110204 NN	LT10	11	2.38	0.4	
IS-T00478			TCMT 110208 NN	LT10	11	2.38	0.8	
IS-T00479			TCMT 16T304 NN	LT10	16	3.97	0.4	
IS-T00068			TCMT 16T308 NN	LT10	16	3.97	0.8	
IS-T01774			TCMT 16T312 NN	LT10	16	3.97	0.8	
IS-T01924			TCMT 110204 NN	LT1000	11	2.38	0.4	
IS-T01925			TCMT 110208 NN	LT1000	11	2.38	0.8	
IS-T01927			TCMT 16T304 NN	LT1000	16	3.97	0.4	
IS-T01928			TCMT 16T308 NN	LT1000	16	3.97	0.8	
IS-T01929			TCMT 16T312 NN	LT1000	16	3.97	1.2	
IS-T00457			TNMG 160404 NN	LT10	16	4.76	0.4	
IS-T00069			TNMG 160408 NN	LT10	16	4.76	0.8	
IS-T01734			TNMG 160412 NN	LT10	16	4.76	1.2	
IS-T01873			TNMG 220404 NN	LT10	22	4.76	0.4	
IS-T00113			TNMG 220408 NN	LT10	22	4.76	0.8	
IS-T01735			TNMG 220412 NN	LT10	22	4.76	1.2	
IS-T01931			TNMG 160404 NN	LT1000	16	4.76	0.4	
IS-T01932			TNMG 160408 NN	LT1000	16	4.76	0.8	
IS-T01933			TNMG 160412 NN	LT1000	16	4.76	1.2	
IS-T03012			TNMG 160408 NX	LT1000	16	4.76	0.8	
IS-T01934			TNMG 220404 NN	LT1000	22	4.76	0.4	
IS-T01935			TNMG 220408 NN	LT1000	22	4.76	0.8	
IS-T01936			TNMG 220412 NN	LT1000	22	4.76	1.2	
IS-T03013			TNMG 220408 NX	LT1000	22	4.76	0.8	
IS-T00492			TNMP 160408 NN	LT10	16	4.76	0.8	
IS-T04145			TNMP 160408 NN	LT1025	16	4.76	0.8	
IS-T02837			TNMA 160408	LT1005	16	4.76	0.8	
IS-T03238			TNMA 160412	LT1005	16	4.76	1.2	
IS-T01125			TNUX 160404R	LT10	16	4.76	0.4	
IS-T01877			TNUX 160404L	LT10	16	4.76	0.4	
IS-T01137			TNUX 160408R	LT10	16	4.76	0.8	
IS-T03385			TNUX 160408L	LT10	16	4.76	0.8	
IS-T01938			TNUX 160404R	LT1000	16	4.76	0.4	
IS-T02794			TNUX 160404L	LT1000	16	4.76	0.8	
IS-T01939			TNUX 160408R	LT1000	16	4.76	0.4	
IS-T02795			TNUX 160408L	LT1000	16	4.76	0.8	
IS-T01638			TPMR 160304 NN	LT10	16	3.76	0.4	
IS-T01535			TPMR 160308 NN	LT10	16	3.76	0.8	

- ★ LT10適合加工非合金鋼、合金鋼、不鏽鋼、鑄鋼、鑄鐵、鈦合金、鎳合金
- ★ LT1000特別適合加工一類似鈦鎳合金等難加工材質.HRC55° 淬火鋼.
- ★ MP槽型為加工不鏽鋼及軟材質之首選 MA槽型為加工鑄鐵首選
- ★ 另有詳細切削資料提供



CODE	ลักษณะ	ขนาด และ เกรด	l	s	r	BAHT
IS-T00133		WNMG 060404 NN LT10	6	4.76	0.4	
IS-T00137		WNMG 060408 NN LT10	6	4.76	0.8	
IS-T00584		WNMG 080404 NN LT10	8	4.76	0.4	
IS-T00075		WNMG 080408 NN LT10	8	4.76	0.8	
IS-T00077		WNMG 080412 NN LT10	8	4.76	1.2	
IS-T01967		WNMG 080408 NM LT10	8	4.76	0.8	
IS-T01949		WNMG 060404 NN LT1000	6	4.76	0.4	
IS-T01950		WNMG 060408 NN LT1000	6	4.76	0.8	
IS-T03014		WNMG 060408 NX LT1000	6	4.76	0.8	
IS-T01951		WNMG 080404 NN LT1000	8	4.76	0.4	
IS-T01952		WNMG 080408 NN LT1000	8	4.76	0.8	
IS-T01953		WNMG 080412 NN LT1000	8	4.76	1.2	
IS-T01969		WNMG 080408 NM LT1000	8	4.76	0.8	
IS-T02742		WNMG 080408 NX LT1000	8	4.76	0.8	
IS-T00306			WNMP 060404 NN LT10	6	4.76	0.4
IS-T00307	WNMP 060408 NN LT10		6	4.76	0.8	
IS-T00308	WNMP 080408 NN LT10		8	4.76	0.8	
IS-T01954	WNMP 060404 NN LT1000		6	4.76	0.4	
IS-T01955	WNMP 060408 NN LT1000		6	4.76	0.8	
IS-T01956	WNMP 080408 NN LT1000		8	4.76	0.8	
IS-T04106	WNMP 080408 NN LT1005		8	4.76	0.8	
IS-T04157	WNMP 080408 NN LT1025		9	4.76	0.8	
IS-T02840			WNMA 080408 LT1005	8	4.76	0.8
IS-T02841		WNMA 080412 LT1005	8	4.76	1.2	
IS-T00072		VNMG 160404 NN LT10	16	4.76	0.4	
IS-T00073		VNMG 160408 NN LT10	16	4.76	0.8	
IS-T01947		VNMG 160404 NN LT1000	16	4.76	0.4	
IS-T01948		VNMG 160408 NN LT1000	16	4.76	0.8	
IS-T04095		VNMG 160408 NN LT1005	16	4.76	0.8	
IS-T04149		VNMG 160408 NN LT1025	16	4.76	0.8	
IS-T01460		VBMT 110304 NN LT10	11	3.97	0.4	
IS-T00070		VBMT 160404 NN LT10	16	4.76	0.4	
IS-T00071		VBMT 160408 NN LT10	16	4.76	0.8	
IS-T01942		VBMT 110304 NN LT1000	11	3.97	0.4	
IS-T01943		VBMT 160404 NN LT1000	16	4.76	0.8	
IS-T01944		VBMT 160408 NN LT1000	16	4.76	0.8	
IS-T01102		VCMT 160404 NN LT10	16	4.76	0.4	
IS-T01103		VCMT 160408 NN LT10	16	4.76	0.8	
IS-T01945		VCMT 160404 NN LT1000	16	4.76	0.4	
IS-T01946		VCMT 160408 NN LT1000	16	4.76	0.8	
IS-T00090		RCMT 0602 MO LT10	6	2.38	3	
IS-T00091		RCMT 0803 MO LT10	8	3.18	4	
IS-T00092		RCMT 10T3 MO LT10	10	3.97	5	
IS-T00093		RCMT 1204 MO LT10	12	4.76	6	
IS-T01914		RCMT 0602 MO LT1000	6	2.38	3	
IS-T01915		RCMT 0803 MO LT1000	8	3.18	4	
IS-T01916		RCMT 10T3 MO LT1000	10	3.97	5	
IS-T01917		RCMT 1204 MO LT1000	12	4.76	6	

- ★ LT10適合加工非合金鋼、合金鋼、不鏽鋼、鑄鋼、鑄鐵、鈦合金、鎳合金
- ★ LT1000特別適合加工一類似鈦鎳合金等難加工材質.HRC55° 淬火鋼.
- ★ MP槽型為加工不鏽鋼及軟材質之首選 MA為加工鑄鐵首選
- ★ 另有詳細切削資料提供



塗層車刀片(鋁合金專用)
 特殊設計, 四面角都可以使用 (N型)

CODE	ลักษณะ	ขนาด และ เกรด	l	s	r	BAHT
IS-T01025		CNGG 120404 ALU LT05	12	4.76	0.4	
IS-T01019		CNGG 120408 ALU LT05	12	4.76	0.8	
IS-T01026		DNGG 110404 ALU LT05	11	3.97	0.4	
IS-T01010		DNGG 110408 ALU LT05	11	3.97	0.8	
IS-T01105		TNGG 160404 ALU LT05	16	4.76	0.4	
IS-T01006		VNGG 160404 ALU LT05	16	4.76	0.4	
IS-T01032		VNGG 160408 ALU LT05	16	4.76	0.8	
IS-T03299		WNGG 060404 ALU LT05	6	4.76	0.4	
IS-T03300		WNGG 080404 ALU LT05	8	4.76	0.4	
IS-T04162		CCGT 060204 ALU LT05	6	2.38	0.4	
IS-T04163		CCGT 09T304 ALU LT05	9	3.97	0.4	
IS-T04164		DCGT 11T304 ALU LT05	11	3.97	0.4	

塗層刀片(快速鑽頭用)

CODE	ลักษณะ	ขนาด และ เกรด	l	s	r	BAHT
IS-M3001122		WCMX 040208 NN LT30	4	2.38	0.4	
IS-M3001121		WCMX 050308 NN LT30	5	3.18	0.8	
IS-M3000953		WCMX 06T308 NN LT30	6	3.97	0.8	
IS-M3000954		WCMX 080412 NN LT30	8	4.76	1.2	
IS-M3003882		SPMG 050204 NN LT30	5	2.38	0.4	
IS-M3002913		SPMG 060204 NN LT30	6	2.38	0.4	
IS-M3002914		SPMG 07T308 NN LT30	7.94	3.97	0.8	
IS-M3002915		SPMG 090408 NN LT30	9.8	4.3	0.8	
IS-M3003883		SPMG 110408 NN LT30	11.5	4.8	0.8	

★ 適合於鑽削碳鋼, 合金鋼, 不銹鋼, 灰鑄鋼, 球狀鑄鐵, 鎳基合金, 鈦基合金。

塗層刀片(切斷、切槽用)

CODE	ลักษณะ	ขนาด และ เกรด	l	s	r
IS-T02825		GCTX 2002 NN	LT1000	2	0.18
IS-T02826		GCTX 3003 NN	LT1000	3	0.25
IS-T02828		GCTX 3003 PP	LT1000	3	0.25
IS-T03909		MGMN 200 G	LT10	2	0.2
IS-T03910		MGMN 300 M	LT10	3	0.4
IS-T03911		MGMN 400 M	LT10	4	0.4
IS-T03921		MGMN 500 M	LT10	5	0.8
IS-T03932		WGE 2000	LT10	2	0.2
IS-T03933		WGE 3000	LT10	3	0.4
IS-T03934		WGE 4000	LT10	4	0.4
IS-T03935		WGE 5000	LT10	5	0.8

★ 適用於碳鋼, 合金鋼, 不銹鋼, 灰鑄鋼, 球狀鑄鐵, 鎳基合金, 鈦基合金。



MADE IN SWITZERLAND

CODE	ลักษณะ	ขนาด และ เกรด	l	s	r	BAHT
IS-M00663		APMT0903 PDTR LT30	9.94	3.18	0.4	
IS-M01133		APMT1135 PDTR LT30	11.45	3.18	0.7	
IS-M01134		APMT1604 PDTR LT30	17.01	4.76	0.66	
IS-M01733		APMT 160408 PDTR LT30	17.01	4.76	0.7	
IS-M01573		ADKT 1505 PDTR LT30	15.75	5.56	0.96	
IS-M01640		AOMT 123608 PETR LT30	11.93	5.56	0.7	
IS-M04161		APMT 0903 PDTR LT3000	9.94	3.18	0.4	
IS-M02216		APMT 1135 PDTR LT3000	11.45	3.18	0.7	
IS-M02183		APMT 1604 PDTR LT3000	17.01	4.76	0.66	
IS-M02218		APMT 160408 PDTR LT3000	17.01	4.76	0.7	
IS-M03885		APKT 060204 PDTR LT30	6	2.16	0.4	
IS-M00454		APLX 1003 PDTR LT30	10.39	3.18	0.54	
IS-M01151		APLX 100308 PDTR LT30	10.39	3.18	0.8	
IS-M02918		APKT 100308 PDTR LT30	10.39	3.18	0.8	
IS-M02920		APKT 100304 PDTR LT30	10.39	3.18	0.4	
IS-M02921		APKT 100312 PDTR LT30	10.39	3.18	1.2	
IS-M03094		APKT 100316 PDTR LT30	10.39	3.18	1.6	
IS-M02922		APKT 100332 PDTR LT30	10.39	3.18	3.2	
IS-M02923		APKT 100340 PDTR LT30	10.39	3.18	4.0	
IS-M00021		APKT 1604 PDTR LT30	15.30	4.76	0.95	
IS-M00022		APKT 160408 PDTR LT30	15.30	4.76	0.8	
IS-M00172		APKT 160416 PDTR LT30	15.30	4.76	1.6	
IS-M03833		APKT 160424 PDTR LT30	15.30	4.76	2.4	
IS-M01569		APKT 160432 PDTR LT30	15.30	4.76	3.2	
IS-M01810		APKT 1705 PETR LT30	17.48	5.12	0.8	
IS-M04296		APKT 0602-HF LT3000	6	2.38	0.4	
IS-M04026		APKT 0602 PDTR LT3000	6	2.38	0.4	
IS-M03388		APKT 100308 PDTR LT3000	10.39	3.18	0.8	
IS-M03391		APKT 100312 PDTR LT3000	10.39	3.18	1.2	
IS-M03392		APKT 100316 PDTR LT3000	10.39	3.18	1.6	
IS-M03394		APKT 100332 PDTR LT3000	10.39	3.18	3.2	
IS-M03395		APKT 100340 PDTR LT3000	10.39	3.18	4.0	
IS-M02182		APKT 160408 PDTR LT3000	15.3	4.76	0.8	
IS-M04027		APKT 160416 PDTR LT3000	15.3	4.76	1.6	
IS-M04029		APKT 160424 PDTR LT3000	15.3	4.76	2.4	
IS-M04030		APKT 160432 PDTR LT3000	15.3	4.76	3.2	
IS-M02212		APKT 1705 PETR LT3000	17.48	5.12	0.8	
IS-M04469		APKT 0602-HF LT3130	6	2.38	0.4	
IS-M04468		APKT 060204 PDTR LT3130	6	2.38	0.4	
IS-M04470		APKT 100308 PDTR LT3130	10.39	3.18	0.8	
IS-M04471	APKT 160408 PDTR LT3130	15.3	4.76	0.8		
IS-M04472	APKW 0602-HF LT3130	6	2.38	0.4		
IS-M01772		LDMT 1504 PDSR LT30	15.71	4.79	0.74	
IS-M00664		ODMT 0504 ZZTR LT30	5.08	4.76	0.8	
IS-M01104		ODMT 060508 TN LT30	6.58	5.56	0.8	
IS-M03399		ODMT 0504 ZZTR LT3000	5.08	4.76	0.8	
IS-M02219		ODMT 060508 TN LT3000	6.58	5.56	0.8	
IS-M00451		ODMW 060508 TN LT30	6.58	5.56	0.8	
IS-M03400		ODMW 060508 TN LT3000	6.58	5.56	0.8	
IS-M00033		OFER 070405 TN LT30	7.43	4.76	0.8	
IS-M03401		OFER 070405 TN LT3000	7.43	4.76	0.8	
IS-M00591		OFMT 05T305 TN LT30	5.26	3.97	0.8	
IS-M00034		OFMT 050405 TR LT30	5.51	4.76	0.5	
IS-M00592		OFMT 070405 TN LT30	7.44	4.76	0.5	
IS-M02221		OFMT 05T305 TN LT3000	5.26	3.97	0.8	
IS-M02220		OFMT 050405 TR LT3000	5.51	4.76	0.5	
IS-M02222		OFMT 070405 TN LT3000	7.44	4.76	0.5	
IS-M03673		ONKX 0806-45 LT30	20.20	5.8	0.8	
IS-M4475		ONKX 0806-45 LT3130	20.20	5.8	0.8	
IS-M04473		HNKX 0604-45 LT3130				

- ★ LT30適合加工非合金鋼、合金鋼、不鏽鋼、鑄鐵、鈦、鎳合金
- ★ LT3000適合加工HRC55° 以下淬火鋼、高溫合金鋼、不鏽鋼、鈦、鎳合金
- ★ LT3130特別適合加工不鏽鋼、鈦、鎳合金



CODE	ลักษณะ	ขนาด และ เกรด	l	s	r	BAHT
IS-M00035		RDMT 0602 MO LT30	6	2.38		
IS-M01882		RDMT 0702 MO LT30	7	2.38		
IS-M00037		RDMT 0803 MO LT30	8	3.18		
IS-M00038		RDMT 10T3 MO LT30	10	3.97		
IS-M01875		RDMT 1003 MO LT30	10	3.18		
IS-M00039		RDMT 1204 MO LT30	12	4.76		
IS-M01876		RDMT 12T3 MO LT30	12	3.97		
IS-M01881		RDMT 1604 MO LT30	16	4.76		
IS-M03403		RDMT 0602 MO LT3000	6	2.38		
IS-M03404		RDMT 0702 MO LT3000	7	2.38		
IS-M03405		RDMT 0803 MO LT3000	8	3.18		
IS-M02224		RDMT 1003 MO LT3000	10	3.18		
IS-M02225		RDMT 10T3 MO LT3000	10	3.97		
IS-M02226		RDMT 12T3 MO LT3000	12	3.97		
IS-M02227		RDMT 1204 MO LT3000	12	4.76		
IS-M03407	RDMT 1604 MO LT3000	16	4.76			
IS-M04452		RDMW 1003 MO LT30	10	3.18		
IS-M01550		RDMW 10T3 MO LT30	10	3.97		
IS-M01551		RDMW 1204 MO LT30	12	4.76		
IS-M04453		RDMW 12T3MO LT30	12	3.97		
IS-M04424		RDMW 1003 MO LT3000	10	3.18		
IS-M02228	RDMW 10T3 MO LT3000	10	3.97			
IS-M03408	RDMW 1204 MO LT3000	12	4.76			
IS-M04425	RDMW 12T3 MO LT3000	12	3.97			
IS-M01552		RDMX 10T3 MO LT30	10	3.97		
IS-M01553		RDMX 1204 MO LT30	12	4.76		
IS-M04426		RDMX 1003 MO LT3000	10	3.18		
IS-M03409		RDMX 10T3 MO LT3000	10	3.97		
IS-M03410		RDMX 1204 MO LT3000	12	4.76		
IS-M04427	RDMX 12T3 MO LT3000	12	3.97			
IS-M04476		RXMT 10T3 MO LT3130	10	3.97		
IS-M04477		RXMT 1204 MO LT3130	12	4.76		
IS-M04478		RXMW 10T3 MO LT3130	10	3.97		
IS-M04479		RXMW 1204 MO LT3130	12	4.76		
IS-M04480		RXMX 10T3 MO LT3130	10	3.97		
IS-M04481		RXMX 1204 MO LT3130	12	4.76		
IS-M00041		SEKN 1203 AFTN LT30	12.7	3.18	0.39	
IS-M00042		SEKN 1204 AFTN LT30	12.7	4.76	0.39	
IS-M00450		SEKN 1504 AFTN LT30	15	4.76	1.1	
IS-M04031		SEKN 1203 AFTN LT3000	12.7	3.18	0.39	
IS-M04032		SEKN 1204 AFTN LT3000	12.7	4.76	0.39	
IS-M04033		SEKN 1504 AFTN LT3000	15	4.76	1.1	
IS-M00043		SEKR 1203 AFTN LT30	12.7	3.18	0.39	
IS-M00044		SEKR 1204 AFTN LT30	12.7	4.76	0.39	
IS-M04034		SEKR 1203 AFTN LT3000	12.7	3.18	0.39	
IS-M00046		SPKN 1203 EDTR LT30	12.7	3.18	1.2	
IS-M01673		SPKN 1504 EDTR LT30	15.88	4.76	1.6	
IS-M04036		SPKN 1203 EDTR LT3000	12.7	3.18	1.2	
IS-M04037		SPKN 1504 EDTR LT3000	15.88	4.76	1.6	
IS-M00048		SPKR 1203 EDTR LT30	12.7	3.18	1.2	
IS-M04038		SPKR 1203 EDTR LT3000	12.7	3.18	1.2	
IS-M00050	SPUN 120308 LT30	12.7	3.18	0.8		
IS-M00455		SEKT 12T3 AGSN LT30	12.7	3.97	1.2	
IS-M00045		SEKT 1204 AFTN LT30	12.7	4.76	0.85	
IS-M02230		SEKT 1204 AFTN LT3000	12.7	4.76	0.85	
IS-M02231		SEKT 12T3 AGSN LT3000	12.7	3.97	1.2	
IS-M04486		SEKT 1204 AFTN LT3130	12.7	4.76	0.85	
IS-M04487		SEKT 12T3 AGSN LT3130	12.7	3.97	1.2	
IS-M00171		SDKT 1204 AETN LT30	12.7	4.76	0.8	
IS-M03411		SDKT 1204 AETN LT3000	12.7	4.76	0.8	

- ★ LT30適合加工非合金鋼、合金鋼、不鏽鋼、鑄鐵、鈦、鎳合金
- ★ LT3000適合加工HRC55° 以下淬火鋼、高溫合金鋼、不鏽鋼、鈦、鎳合金
- ★ LT3130特別適合加工不鏽鋼、鈦、鎳合金



MADE IN SWITZERLAND

CODE	ลักษณะ	ขนาด และ เกรด	l	s	r	BAHT
IS-M03100		SPMT 060304 TN LT30	6.35	3.18	0.4	
IS-M03063		SPMT 09T308 TN LT30	9.53	3.97	0.8	
IS-M03105		SPMT 120408 TN LT30	12.7	4.76	0.8	
IS-M01226		SPMT 12T308 TN LT30	12.7	3.97	0.8	
IS-M03416		SPMT 060304 TN LT3000	6.35	3.18	0.4	
IS-M03417		SPMT 09T308 TN LT3000	9.53	3.97	0.8	
IS-M03419		SPMT 120408 TN LT3000	12.7	4.76	0.8	
IS-M03420		SPMT 12T308 TN LT3000	12.7	3.97	0.8	
IS-M00053		TPKR 1603 PDTR LT30	14.52	3.18	1.2	
IS-M00051		TPKN 1603 PDTR LT30	14.52	3.18	1.2	
IS-M00052		TPKN 2204 PDTR LT30	19.92	4.76	1.2	
IS-M04040		TPKN 1603 PDTR LT3000	14.52	3.18	1.2	
IS-M04041		TPKN 2204 PDTR LT3000	19.92	4.76	1.2	
IS-M00054		TPUN 160308 LT30	13.49	3.18	0.8	
IS-M04044		TPUN 160308 LT3000	13.49	3.18	0.8	

CODE	ลักษณะ	ขนาด และ เกรด	l	s	r	BAHT
IS-M03089		APGT 1003 PDER-ALU LT05	10.39	3.45	0.8	
IS-M01010		APGT 160408 PDER-ALU LT05	17.03	4.76	0.95	
IS-M01008		SEGT 1204 AFEN-ALU LT05	12.7	4.76	0.84	

CODE	ลักษณะ	ขนาด และ เกรด	l	s	r	BAHT
IS-M03412		SDKX 0904-HF LT3000	9.52	4.76	0.6	
IS-M03413		SDKX 1205-HF LT3000	12.7	5.56	0.8	
IS-M04484		SDKX 0904-HF LT3130	9.52	4.76	0.6	
IS-M04485		SDKX 1205-HF LT3130	12.7	5.56	0.8	
IS-M04263		SDKW 0904-HF LT3000	9.5	4.76	0.8	
IS-M04224		SDKW 1205-HF LT3000	12.7	5.56	0.8	
IS-M04482		SDKW 0904 HF LT3130	9.5	4.76	0.8	
IS-M04483		SDKW 1205-HF LT3130	12.7	5.56	0.8	
IS-M03221		SNKX 1205-45 LT3000	12.7	5.56	0.85	
IS-M02237		SNKX 1607-45 LT3000	16.7	7.94	0.8	
IS-M04490		SNKX 1205-45 LT3130	12.7	5.56	0.85	
IS-M04491		SNKX 1607-45 LT3130	16.7	7.94	0.8	

- ★ LT30適合加工非合金鋼、合金鋼、不鏽鋼、鑄鐵、鈦、鎳合金
- ★ LT3000適合加工HRC55° 以下淬火鋼、高溫合金鋼、不鏽鋼、鈦、鎳合金
- ★ LT3130特別適合加工不鏽鋼、鈦、鎳合金





MADE IN GERMANY

GTN

CODE	ลักษณะ	ขนาด และ เกรด	W	RL	BAHT
IS-W4103785 ★		GTN2 TN6025	2.25	0.18	
IS-W4103790		GTN24 TN6025	2.4	0.18	
IS-W4103784 ★		GTN3 TN6025	3.05	0.22	
IS-W4103801		GTN3J TN6025	3.05	0.22	
IS-W4103798		GTN3W TN6025	3.05	0.22	
IS-W4103787		GTN4 TN6025	4.05	0.24	
IS-W4103797		GTN48 TN6025	4.8	0.26	
IS-W4103792		GTN5 TN6025	5.05	0.26	
IS-W4103794		GTN6 TN6025	6.45	0.28	

GTR

CODE	ลักษณะ	ขนาด และ เกรด	W	aR	RL	BAHT
IS-W4103793		GTR28D TN6025	2.25	8	0.18	
IS-W4103800		GTR24D TN6025	2.25	4	0.18	
IS-W4103799		GTR248D TN6025	2.40	8	0.18	
IS-W4103796		GTR244D TN6025	2.40	4	0.18	
IS-W4103786		GTR38D TN6025	3.05	8	0.22	
IS-W4103788		GTR34D TN6025	3.05	4	0.22	
IS-W4103795		GTR44D TN6025	4.05	4	0.24	

GFN

CODE	ลักษณะ	ขนาด และ เกรด	W	RL	BAHT
IS-W4109101		GFN16 TN6025	1.60	0.16	
IS-W4109158		GFN2J TN6025	2.00	0.16	
IS-W4109153 ★		GFN2 TN6025	2.20	0.16	
IS-W4109154		GFN24 TN6025	2.40	0.16	
IS-W4109097 ★		GFN3 TN6025	3.00	0.25	
IS-W4109099		GFN3J TN6025	3.00	0.25	
IS-W4109160		GFN3M TN6025	3.03	0.20	
IS-W4109162		GFN4J TN6025	4.00	0.25	
IS-W4109156		GFN4B TN6025	4.10	0.40	
IS-W4109102		GFN4 TN6025	4.10	0.28	
IS-W4109155		GFN48 TN6025	4.80	0.28	
IS-W4109164		GFN6 TN6025	6.39	0.35	
IS-W4109166		GFN9 TN6025	9.50	0.47	

GFL/GFR

CODE	ลักษณะ	ขนาด และ เกรด	W	aL/aR	RL/RR	BAHT
IS-W4109167		GFL38D TN6025	2.99	8	0.25	
IS-W4109165		GFL48D TN6025	4.09	8	0.28	
IS-W4109159		GFR168D TN6025	1.60	8	0.16	
IS-W4109161		GFR248D TN6025	2.39	8	0.16	
IS-W4109163		GFR315D TN6025	2.98	15	0.25	
IS-W4109157		GFR38D TN6025	2.99	8	0.25	
IS-W4109100		GFR34D TN6025	3.00	4	0.25	

DGR

CODE	ลักษณะ	ขนาด และ เกรด	W	RL	BAHT
IS-W4176756		DGR2200JS-15D TN6025	2.2	0.02	
IS-W4176755		DGR2202J-6D TN6025	2.2	0.20	
IS-W4176757		DGR3100JS-15D TN6025	3.1	0.02	
IS-W4176764		DGR3100JS-6D TN6025	3.1	0.02	
IS-W4176763		DGR3102J-15D TN6025	3.1	0.20	
IS-W4176762		DGR3102J-6D TN6025	3.1	0.20	
IS-W4176754		DGR2202C-6D TN6025	2.2	0.20	
IS-W4176760		DGR3102C-6D TN6025	3.1	0.20	
IS-W4176761		DGR3102C-8D TN6025	3.1	0.20	

DGN

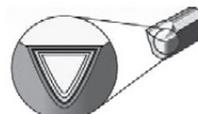
CODE	ลักษณะ	ขนาด และ เกรด	W	RL	BAHT
IS-W4176751		DGN1402J TN6025	1.40	0.16	
IS-W4176753		DGN2202J TN6025	2.20	0.03	
IS-W4176759		DGN3102J TN6025	3.10	0.04	
IS-W4176752		DGN2202C TN6025	2.20	0.03	
IS-W4176758		DGN3102C TN6025	3.10	0.04	

本系列同以色列ISCAR系列可以通用

★ 表示有库存, 其他交货期需要7-14天

刀片的切削性能:

*先进的硬质合金母材, 复合PVD-TiAlN纳米涂层



涂层可以进行高速加工, 设计用于精加工到轻型粗加工的加工范围。



德國WIDIA塗層車刀片

CODE	ลักษณะ	ขนาด และ เกรด		BAHT
IS-W2415792		CCMT 060204	TN2000	
IS-W2564132		CCMT 060204	HK1500	
IS-W2562385		CCMT 09T304	TN2000	
IS-W2562359		CCMT 09T304	HK1500	
IS-W2035312		CCMT 09T308	TN2000	
IS-W2563990		CCMT 09T308	HK1500	
IS-W2563965		CCMT 120408	TN2000	
IS-W2559548		CNMG 120404	TN2000	
IS-W2576285		CNMG 120408	TN2000	
IS-W2045827		CNMG 120408-5	TN2000	
IS-W2409372		CNMG 120412-5	TN2000	
IS-W2561634		CNMG 120408-5	HK1500	
IS-W2561590		CNMG 120412-5	HK1500	
IS-W2561550		CNMG 190612-5	TN2000	
IS-W2561520		CNMG 190616-5	TN2000	
IS-W2560926			CNMG 120404-22	TN2000
IS-W2422429	CNMG 120408-22		TN2000	
IS-W2001174		CNMG 120408-49	TN2000	
IS-W2629849		CNMG 120408-FR	TN8135	
IS-W2576427		DCMT 11T304	TN2000	
IS-W2563474		DCMT 11T308	TN2000	
IS-W2576288		DNMG 150604	TN2000	
IS-W2393014		DNMG 150608	TN2000	
IS-W2563408		DNMG 110408-5	TN2000	
IS-W2561293		DNMG 150608-5	TN2000	
IS-W2561248		DNMG 150612-5	TN2000	
IS-W2203124		DNMG150604-22	TN2000	
IS-W2559272		SNMG 120404	TN2000	
IS-W2559237		SNMG 120408	HK1500	
IS-W2576284		SNMG 120408	TN2000	
IS-W2576289		SNMG 120408-5	TN2000	
IS-W2561455		SNMG 120412-5	TN2000	
IS-W2202791		TCMT 110204	TN2000	
IS-W2563491		TCMT 16T304	TN2000	
IS-W2564248		TCMT 16T308	TN2000	
IS-W2576313		TCMT 16T308-MU	TN2000	
IS-W2576287			TNMG 160404	TN2000
IS-W2576286		TNMG 160408	TN2000	
IS-W2561379		TNMG 160408-5	TN2000	
IS-W2561349		TNMG 160412-5	TN2000	
IS-W2561329		TNMG 220408-5	TN2000	
IS-W2561307		TNMG 220412-5	TN2000	
IS-W2561374		TNMG 160408-5	HK1500	
IS-W2560991			TNMG 160404-22	TN2000
IS-W2225730		TNMG 160408-49	TN2000	
IS-W2556792		VBMT 160404	TN2000	
IS-W2556760		VBMT 160408	TN2000	
IS-W2563052		WNMG 060408-5	TN2000	
IS-W2561722		WNMG 080408-5	TN2000	
IS-W2561712		WNMG 080408-5	HK1500	
IS-W2561686		WNMG 080412-5	TN2000	
IS-W2561661		WNMG 080412-5	HK1500	
IS-W2560872		WNMG 080408-49	TN2000	

★ TN2000適用於合金鋼、碳鋼、鉻鋼 ★ HK1500適用於鑄鐵 ★ TN8135適用於不鏽鋼、合金鋼



WIDIA

CODE	ลักษณะ	ขนาด และ เกรด		BAHT
IS-W4094632		RPMW 1003MO	SPTIEH	
IS-W3350976		RPMW 1204MO	PA120	
IS-W4175033		RPMT 1204MO	SPTIEH	
IS-W5032807		RDMT 10T3MO	SPTIEH	
IS-W3967073		TPUN 110304	TTMS	
IS-W2262064		TPUN 160308	TTMS	
IS-W5035200		APMT1135 PDTR	SPTIEH	
IS-W5643478		APMT1604 PDTR	SPTIEH	

★ SPTIEH 適用於合金鋼、碳鋼、鉻鋼 ★ PA120 適用於不銹鋼、合金鋼、碳鋼 ★ TTMS 適用於合金鋼、碳鋼、鑄鐵

DELFER

CODE	ลักษณะ	ขนาด และ เกรด	L(d)	L2	S	d1	BAHT
IS-3010415		ADKT 1505PDR RK40G	15	9.52	5.3	4.4	
IS-3180422		RDMX 12T3MOT RK40G	12		3.97	4.9	
IS-3180426		RDMX 1604MOT RK40G	16		4.76	5.4	
IS-3191603		SPKN 1203EDR ZSM	12.7		3.18		

★ RB45及RK40G為TiAlN塗層，適合乾銑。

倒角機用刀片

CODE	ลักษณะ	ขนาด และ เกรด	d	S	BAHT
IS-2010710		SPMW 090308 CP2000	9.525	3.18	
IS-3190412		SPMW 090308 ZS6			

日本東芝45°鎢鋼刀片

CODE	ลักษณะ	ขนาด และ เกรด	d	s	h	r	BAHT
IS-2031905		SDMB 26152 GH330	8.31	2.38	3.56	0.8	



MADE IN USA

CODE	ลักษณะ	ขนาด และ เกรด		BAHT	
WID-4165244		CCMT060202-1P	TN10P		
WID-4166324		CCMT060202-1P	TN10U		
WID-4166327		CCMT060204-1P	TN20P		
WID-4166331		CCMT060204-1P	TN10U		
WID-4166341		CCMT09T304-1P	TN10P		
WID-4166346		CCMT09T304-1P	TN10U		
WID-4166349		CCMT09T308-1P	TN20P		
WID-4166353		CCMT09T308-1P	TN10U		
WID-4166355		CCMT120404-1P	TN10P		
WID-4166558		CCMT120404-1P	TN10U		
WID-4166560		CCMT120408-1P	TN20P		
WID-4166624		CCMT120408-1P	TN10U		
WID-4163978		 (精密級)	CCGT060202-1P	TN10U	
WID-4163980			CCGT060204-1P	TN10U	
WID-4164495	CCGT09T301-1P		TN10U		
WID-4164493	CCGT09T302-1P		TN10U		
WID-4164497	CCGT09T304-1P		TN10U		
WID-4166246		CNMG120404-2P	TN10U		
WID-4166253		CNMG120408-2P	TN10U		
WID-4166171		CNMG120404-2P	TN10P		
WID-4166248		CNMG120408-2P	TN10P		
WID-4166249		CNMG120408-2P	TN20P		
WID-4166256		CNMG120412-2P	TN20P		
WID-4165830		CNMG120404-4P	TN15M		
WID-4165831		CNMG120404-4P	TN30M		
WID-4165832		CNMG120408-4P	TN15M		
WID-4165853		CNMG120408-4P	TN30M		
WID-4165854		CNMG120412-4P	TN15M		
WID-4165855		CNMG120412-4P	TN30M		
WID-4165966			CNMG120408-6P	TN10P	
WID-4165967	CNMG120408-6P		TN20P		
WID-4165968	CNMG120408-6P		TN30P		
WID-4165972	CNMG120412-6P		TN20P		
WID-4165973	CNMG120412-6P		TN30P		
WID-4165976	CNMG160612-6P		TN20P		
WID-4165977	CNMG160612-6P		TN30P		
WID-4166625			DCMT070202-1P	TN10U	
WID-4166632		DCMT070204-1P	TN10U		
WID-4166637		DCMT11T304-1P	TN20P		
WID-4166641		DCMT11T304-1P	TN10U		
WID-4166644		DCMT11T308-1P	TN20P		
WID-4166648		DCMT11T308-1P	TN10U		
WID-4164501	 (精密級)	DCGT070201-1P	TN10U		
WID-4164523		DCGT11T301-1P	TN10U		
WID-4164525		DCGT150408-1P	TN10U		
WID-4166260		DNMG150404-2P	TN10P		
WID-4166267		DNMG150408-2P	TN10P		
WID-4166825		DNMG150604-2P	TN10P		
WID-4166831		DNMG150608-2P	TN10P		
WID-4165860		DNMG150404-4P	TN15M		
WID-4165861		DNMG150404-4P	TN30M		
WID-4165862		DNMG150408-4P	TN15M		
WID-4165863		DNMG150408-4P	TN30M		
WID-4165864		DNMG150604-4P	TN15M		
WID-4165865		DNMG150604-4P	TN30M		
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WID-4165867		DNMG150608-4P	TN30M		
WID-4165868		DNMG150612-4P	TN15M		
WID-4165869		DNMG150612-4P	TN30M		
WID-4165992			DNMG150408-6P	TN20P	
WID-4165997	DNMG150412-6P		TN20P		
WID-4166772	DNMG150608-6P		TN20P		
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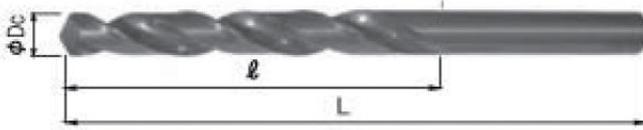
MADE IN USA

CODE	ลักษณะ	ขนาด และ เกรด		BAHT	
WID-4166854		SNMG090308-2P	TN20P		
WID-4166858		SNMG120408-2P	TN20P		
WID-4166805		SNMG120404-6P	TN20P		
WID-4166809		SNMG120408-6P	TN20P		
WID-4166814		SNMG120412-6P	TN20P		
WID-4166509		SNMG150612-7N	TN20P		
WID-4166510		SNMG150612-7N	TN30P		
WID-4166512		SNMG150616-7N	TN20P		
WID-4166513		SNMG150616-7N	TN30P		
WID-4166415		TCMT110204-1P	TN20P		
WID-4166419		TCMT110204-1P	TN10U		
WID-4166421		TCMT110208-1P	TN20P		
WID-4166430		TCMT16T304-1P	TN10U		
WID-4166471		TCMT16T308-1P	TN20P		
WID-4166565		TCMT16T308-1P	TN10U		
WID-4164526		TCGT 110201-1P	TN10U		
WID-4164528		TCGT110204-1P	TN10U		
WID-4164530		TCGT16T302-1P	TN10U		
WID-4164531	(精密級)	TCGT16T304-1P	TN10U		
WID-4166863		TNMG160404-2P	TN10P		
WID-4166868		TNMG160404-2P	TN10U		
WID-4166871		TNMG160408-2P	TN20P		
WID-4166874		TNMG160408-2P	TN10U		
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WID-4165875		TNMG160404-4P	TN30M		
WID-4165876		TNMG160408-4P	TN15M		
WID-4165877		TNMG160408-4P	TN30M		
WID-4167088		TNMG160408-6P	TN20P		
WID-4167113		TNMG160412-6P	TN20P		
WID-4166573		VBMT110302-1P	TN10U		
WID-4166580		VBMT110304-1P	TN10U		
WID-4166583		VBMT110308-1P	TN20P		
WID-4166590		VBMT160402-1P	TN10U		
WID-4166592		VBMT160404-1P	TN10P		
WID-4166597		VBMT160404-1P	TN10U		
WID-4166600		VBMT160408-1P	TN20P		
WID-4166604		VBMT160408-1P	TN10U		
WID-4164546			VBGT110301-1P	TN10U	
WID-4164544			VBGT110302-1P	TN10U	
WID-4164548	VBGT110304-1P		TN10U		
WID-4164551	VBGT160401-1P		TN10U		
WID-4164549	VBGT160402-1P		TN10U		
WID-4164550	VBGT160402-1P		TN15U		
WID-4164552	VBGT160404-1P		TN10U		
WID-4164563	VBGT160404-1P		TN15U		
WID-4166282			VNMG160404-2P	TN20P	
WID-4166289			VNMG160408-2P	TN20P	
WID-4167126		VNMG160408-6P	TN20P		
WID-4166294		WNMG080404-2P	TN10P		
WID-4166299		WNMG080404-2P	TN10U		
WID-4166301		WNMG080408-2P	TN10P		
WID-4166305		WNMG080408-2P	TN10U		
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WID-4167130			WNMG060408-6P	TN20P	
WID-4167134	WNMG080408-6P		TN20P		
WID-4167139	WNMG080412-6P		TN20P		
WID-4167140	WNMG080412-6P		TN30P		

★另有詳細切削資料提供



STRAIGHT SHANK JOBBER DRILLS



DIN 338

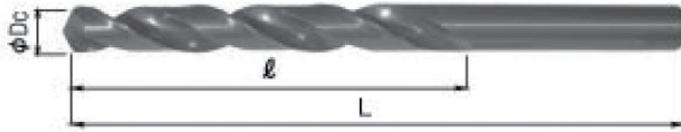
Unit : mm

CODE	Dc	l	L	BAHT
1010030-SO	0.3	3	19	
1010035-SO	0.35	4	19	
1020040-SO	0.397(1/64")	5	20	
1010040-SO	0.4	5	20	
1010045-SO	0.45	5	20	
1010050-SO	0.5	6	22	
1010055-SO	0.55	7	24	
1010060-SO	0.6	8	24	
1010062-SO	0.62	9	26	
1010070-SO	0.7	10	28	
1010075-SO	0.75	10	28	
1020079-SO	0.794(1/32")	11	30	
1010080-SO	0.8	11	30	
1010088-SO	0.88	11	32	
1010090-SO	0.9	12	32	
1010092-SO	0.92	12	32	
1010100-SO	0.1	14	34	
1010105-SO	1.05	14	34	
1010110-SO	1.1	16	36	
1010115-SO	1.15	16	36	
1020119-SO	1.191(3/64")	16	38	
1010120-SO	1.2	16	38	
1010125-SO	1.25	16	38	
1010130-SO	1.3	16	38	
1010135-SO	1.35	18	40	
1010140-SO	1.4	18	40	
1010145-SO	1.45	18	40	
1010150-SO	1.5	18	40	
1010155-SO	1.55	20	43	
1020159-SO	1.587(1/16")	20	43	
1010160-SO	1.6	20	43	
1010165-SO	1.65	20	43	
1010170-SO	1.7	20	43	
1010175-SO	1.78	22	46	
1010180-SO	1.8	22	46	
1010185-SO	1.85	22	46	
1010190-SO	1.9	22	46	
1010195-SO	1.95	24	49	
1020198-SO	1.984(5/64")	24	49	
1020200-SO	2	24	49	
1020205-SO	2.05	24	49	
1020210-SO	2.1	24	49	
1020215-SO	2.15	27	53	
1020220-SO	2.2	27	53	
1020225-SO	2.25	27	53	
1020230-SO	2.3	27	53	
1020235-SO	2.35	27	53	
1020238-SO	2.381(3/32")	30	57	
1020240-SO	2.4	30	57	
1020245-SO	2.45	30	57	
1020250-SO	2.5	30	57	
1020255-SO	2.55	30	57	
1020260-SO	2.6	30	57	
1020265-SO	2.65	30	57	
1020270-SO	2.7	33	61	
1020275-SO	2.75	33	61	
1020278-SO	2.778(7/64")	33	61	
1020280-SO	2.8	33	61	
1020285-SO	2.85	33	61	
1020290-SO	2.9	33	61	
1020295-SO	2.95	33	61	
1020300-SO	3	33	61	
1020310-SO	3.1	36	65	
1020318-SO	3.175(1/8")	36	65	

CODE	Dc	l	L	BAHT
1010320-SO	3.2	36	65	
1010325-SO	3.25	36	65	
1010330-SO	3.3	36	65	
1010340-SO	3.4	39	70	
1010350-SO	3.5	39	70	
1020357-SO	3.572(9/64")	39	70	
1010360-SO	3.6	39	70	
1010370-SO	3.7	39	70	
1010380-SO	3.8	43	75	
1010390-SO	3.9	43	75	
1020397-SO	3.969(5/32")	43	75	
1010400-SO	4	43	75	
1010410-SO	4.1	43	75	
1010420-SO	4.2	43	75	
1010425-SO	4.25	43	75	
1010430-SO	4.3	47	80	
1020437-SO	4.366(11/64")	47	80	
1010440-SO	4.4	47	80	
1010450-SO	4.5	47	80	
1010460-SO	4.6	47	80	
1010470-SO	4.7	47	80	
1020476-SO	4.762(3/16")	52	86	
1010480-SO	4.8	52	86	
1010490-SO	4.9	52	86	
1010500-SO	5	52	86	
1010510-SO	5.1	52	86	
1020516-SO	5.159(13/64")	52	86	
1010520-SO	5.2	52	86	
1010525-SO	5.25	52	86	
1010530-SO	5.3	52	86	
1010540-SO	5.4	57	93	
1010550-SO	5.5	57	93	
1020556-SO	5.556(7/32")	57	93	
1010560-SO	5.6	57	93	
1010570-SO	5.7	57	93	
1010575-SO	5.75	57	93	
1010580-SO	5.8	57	93	
1010590-SO	5.9	57	93	
1020595-SO	5.953(15/64")	57	93	
1010600-SO	6	57	93	
1010610-SO	6.1	63	101	
1010620-SO	6.2	63	101	
1010625-SO	6.25	63	101	
1010630-SO	6.3	63	101	
1020635-SO	6.350(1/4")	63	101	
1010640-SO	6.4	63	101	
1010650-SO	6.5	63	101	
1010660-SO	6.6	63	101	
1010670-SO	6.7	63	101	
1020675-SO	6.747(17/64")	69	109	
1010675-SO	6.75	69	109	
1010680-SO	6.8	69	109	
1010690-SO	6.9	69	109	
1010700-SO	7	69	109	
1010710-SO	7.1	69	109	
1010714-SO	7.144(9/32")	69	109	
1010720-SO	7.2	69	109	
1010730-SO	7.3	69	109	
1010740-SO	7.4	69	109	
1010750-SO	7.5	69	109	
1020754-SO	7.541(19/64")	75	117	
1010760-SO	7.6	75	117	
1010770-SO	7.7	75	117	
1010780-SO	7.8	75	117	



STRAIGHT SHANK JOBBER DRILLS



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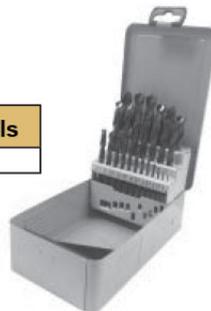
Unit : mm

CODE	Dc	ℓ	L	BAHT
1010790-SO	7.9	75	117	
1020794-SO	73937(5/16")	75	117	
1010800-SO	8	75	117	
1010810-SO	8.1	75	117	
1010820-SO	8.2	75	117	
1010825-SO	8.25	75	117	
1010830-SO	8.3	75	117	
1020833-SO	8.334(21/64")	75	117	
1010840-SO	8.4	75	117	
1010850-SO	8.5	75	117	
1010860-SO	8.6	81	125	
1010870-SO	8.7	81	125	
1020873-SO	8.731(11/32")	81	125	
1010875-SO	8.75	81	125	
1010880-SO	8.8	81	125	
1010890-SO	8.9	81	125	
1010900-SO	9	81	125	
1010910-SO	9.1	81	125	
1020913-SO	9.128(23/64")	81	125	
1010920-SO	9.2	81	125	
1010925-SO	9.25	81	125	
1010930-SO	9.3	81	125	
1010940-SO	9.4	81	125	
1010950-SO	9.5	81	125	
1020953-SO	9.525(3/8")	87	133	
1010960-SO	9.6	87	133	
1010970-SO	9.7	87	133	
1010975-SO	9.75	87	133	
1010980-SO	9.8	87	133	
1010990-SO	9.9	87	133	
1020992-SO	9.922(25/64")	87	133	
1011000-SO	10	87	133	
1011010-SO	10.1	87	133	
1011020-SO	10.2	87	133	
1011025-SO	10.25	87	133	
1011030-SO	10.3	87	133	
1021032-SO	10.319(13/32")	87	133	
1011040-SO	10.4	87	133	
1011050-SO	10.5	87	133	
1011060-SO	10.6	87	133	
1011070-SO	10.7	94	142	
1021072-SO	10.716(27/64")	94	142	
1011075-SO	10.75	94	142	
1011080-SO	10.8	94	142	
1011090-SO	10.9	94	142	
1011100-SO	11	94	142	
1011110-SO	11.1	94	142	
1021111-SO	11.112(7/16")	94	142	
1011120-SO	11.2	94	142	
1011130-SO	11.3	94	142	
1011140-SO	11.4	94	142	
1011150-SO	11.5	94	142	

CODE	Dc	ℓ	L	BAHT
1021151-SO	11.509(29*64")	94	142	
1011160-SO	11.6	94	142	
1011170-SO	11.7	94	142	
1011180-SO	11.8	94	142	
1011190-SO	11.9	101	151	
1021191-SO	11.906(15/32")	101	151	
1011200-SO	12	101	151	
1011210-SO	12.1	101	151	
1011220-SO	12.2	101	151	
1011225-SO	12.25	101	151	
1011230-SO	12.3	101	151	
1021310-SO	12.303(31/64")	101	151	
1011240-SO	12.4	101	151	
1011250-SO	12.5	101	151	
1011260-SO	12.6	101	151	
1011270-SO	12.7	101	151	
1021270-SO	12.700(1/2")	101	151	
1011275-SO	12.75	101	151	
1011280-SO	12.8	101	151	
1011290-SO	12.9	101	151	
1011300-SO	13	101	151	
1021310-SO	13.097(33/64")	101	151	
1011310-SO	13.1	101	151	
1011320-SO	13.2	101	151	
1011325-SO	13.25	108	160	
1011330-SO	13.3	108	160	
1011340-SO	13.4	108	160	
1021349-SO	13.494(17/32")	108	160	
1011350-SO	13.5	108	160	
1011360-SO	13.6	108	160	
1011370-SO	13.7	108	160	
1011380-SO	13.8	108	160	
1021389-SO	13.891(35/64")	108	160	
1011400-SO	14	108	160	
1011425-SO	14.25	114	169	
1021429-SO	14.287(9/16")	114	169	
1011450-SO	14.5	114	169	
1021468-SO	14.684(37/64")	114	169	
1011475-SO	14.75	114	169	
1011500-SO	15	114	169	
1011525-SO	15.25	120	178	
1011550-SO	15.50	120	178	
1011575-SO	15.75	120	178	
1021588-SO	15.875(5/8")	120	178	
1011600-SO	16	120	178	
1011650-SO	16.5	125	184	
1011700-SO	17	125	184	
1011750-SO	17.5	130	191	
1011800-SO	18	130	191	
1011850-SO	18.5	135	198	
1011900-SO	19	135	198	
1011950-SO	19.5	140	205	
1012000-SO	20	140	205	

JOBBER DRILL SET IN METAL CASE

CODE	Size Range	NO. of drills
10600040-SO	1.13x0.5	25





COBALT STRAIGHT SHANK JOBBER DRILLS

Flute Type

Standard Helix, Right Hand

Point Angle

118°

Surface Treatment

Gold Oxide

Application

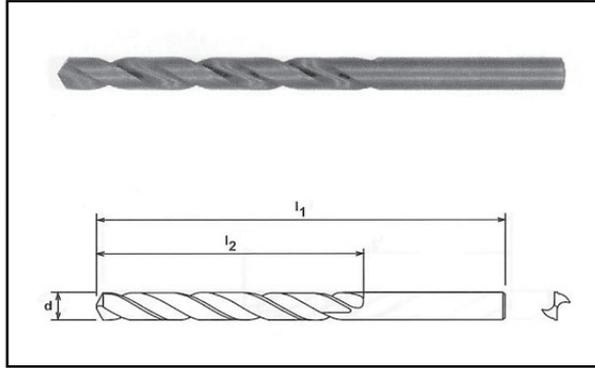
For drilling high tensile steels and other difficult materials.

Options

Tin, TiCN & TiALN Coating

Nitriding

Steam Temper



CODE TYPE

112

METRIC, FRACTIONAL

HSS-CO

ISO 235
 DIN 338
 BS 328

CODE	d	l ₂	l ₁	BAHT
1120150	1.5	18	40	
1120159	1/16	20	43	
1120160	1.6	20	43	
1120170	1.7	20	43	
1120180	1.8	22	46	
1120190	1.9	22	46	
1120198	5/64	24	46	
1120200	2	24	46	
1120210	2.1	24	46	
1120220	2.2	27	53	
1120230	2.3	27	53	
1120238	3/32	30	57	
1120240	2.4	30	57	
1120250	2.5	30	57	
1120260	2.6	30	57	
1120270	2.7	33	61	
1120278	7/64	33	61	
1120280	2.8	33	61	
1120290	2.9	33	61	
1120300	3	33	61	
1120310	3.1	36	65	
1120378	1/8	36	65	
1120320	3.2	36	65	
1120330	3.3	36	65	
1120340	3.4	39	70	
1120350	3.5	39	70	
1120357	9/64	39	70	
1120360	3.6	39	70	
1120370	3.7	39	70	
1120380	3.8	43	75	
1120390	3.9	43	75	
1120397	5/32	43	75	

CODE	d	l ₂	l ₁	BAHT
1120400	4	43	75	
1120410	4.1	43	75	
1120420	4.2	43	75	
1120430	4.3	47	80	
1120437	11/64	47	80	
1120440	4.4	47	80	
1120450	4.5	47	80	
1120460	4.6	47	80	
1120470	4.7	47	80	
1120476	3/16	52	86	
1120480	4.8	52	86	
1120490	4.9	52	86	
1120500	5	52	86	
1120510	5.1	52	86	
1120516	13/64	52	86	
1120520	5.2	52	86	
1120530	5.3	52	86	
1120540	5.4	57	93	
1120550	5.5	57	93	
1120556	7/32	57	93	
1120560	5.6	57	93	
1120570	5.7	57	93	
1120580	5.8	57	93	
1120590	5.9	57	93	
1120595	15/64	57	93	
1120600	6	57	93	
1120610	6.1	63	101	
1120620	6.2	63	101	
1120630	6.3	63	101	
1120635	1/4	63	101	
1120640	6.4	63	101	
1120650	6.5	63	101	

Tolerance (h8) on Cutting Diameter

Diameter	millimetres				
	≤3	3-6	6-10	10-18	18-30
h8	+0 -14	+0 -18	+0 -22	+8 -27	+0 -33

Tolerance in μ (1/1000mm)



COBALT STRAIGHT SHANK JOBBER DRILLS

Flute Type

Standard Helix, Right Hand

Point Angle

118°

Surface Treatment

Gold Oxide

Application

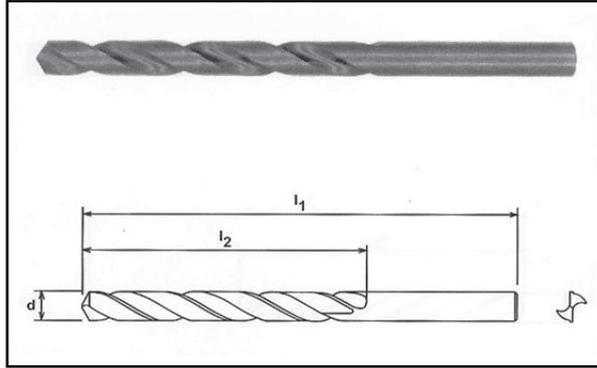
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Options

Tin, TiCN & TiAlN Coating

Nitriding

Steam Temper



CODE TYPE

112

METRIC, FRACTIONAL

HSS-CO

ISO 235
 DIN 338
 BS 328

CODE	d	l ₂	l ₁	BAHT
1120660-SO	6.6	63	101	
1120670-SO	6.7	63	101	
1120675-SO	17/64	69	109	
1120680-SO	6.8	69	109	
1120690-SO	6.9	69	109	
1120700-SO	7	69	109	
1120710-SO	7.1	69	109	
1120714-SO	9/32	69	109	
1120720-SO	7.2	69	109	
1120730-SO	7.3	69	109	
1120740-SO	7.4	69	109	
1120750-SO	7.5	69	109	
1120754-SO	19/64	75	117	
1120760-SO	7.6	75	117	
1120770-SO	7.7	75	117	
1120780-SO	7.8	75	117	
1120790-SO	7.9	75	117	
1120794-SO	5/16	75	117	
1120800-SO	8	75	117	
1120810-SO	8.1	75	117	
1120820-SO	8.2	75	117	
1120830-SO	8.3	75	117	
1120833-SO	21/64	75	117	
1120840-SO	8.4	75	117	
1120850-SO	8.5	75	117	
1120860-SO	8.6	81	125	
1120870-SO	8.7	81	125	
1120873-SO	11/32	81	125	
1120880-SO	8.8	81	125	
1120890-SO	8.9	81	125	
1120900-SO	9	81	125	
1120910-SO	9.1	81	125	

CODE	d	l ₂	l ₁	BAHT
1120913-SO	23/64	81	125	
1120920-SO	9.2	81	125	
1120930-SO	9.3	81	125	
1120940-SO	9.4	81	125	
1120950-SO	9.5	81	125	
1120953-SO	3/8	87	133	
1120960-SO	9.6	87	133	
1120970-SO	9.7	87	133	
1120980-SO	9.8	87	133	
1120990-SO	9.9	87	133	
1120992-SO	25/64	87	133	
1121000-SO	10	87	133	
1121010-SO	10.1	87	133	
1121020-SO	10.2	87	133	
1121030-SO	10.3	87	133	
1121032-SO	13/32	87	133	
1121040-SO	10.4	87	133	
1121050-SO	10.5	87	133	
1121060-SO	10.6	87	133	
1121070-SO	10.7	94	142	
1121072-SO	27/64	94	142	
1121080-SO	10.8	94	142	
1121090-SO	10.9	94	142	
1121100-SO	11	94	142	
1121110-SO	11.1	94	142	
1121111-SO	7/16	94	142	
1121120-SO	11.2	94	142	
1121130-SO	11.3	94	142	
1121140-SO	11.4	94	142	
1121150-SO	11.5	94	142	
1121151-SO	29/64	94	142	
1121160-SO	11.6	94	142	

Tolerance (h8) on Cutting Diameter

Diameter	millimetres				
	≤3	3-6	6-10	10-18	18-30
h8	+0 -14	+0 -18	+0 -22	+8 -27	+0 -33

Tolerance in μ (1/1000mm)



COBALT STRAIGHT SHANK JOBBER DRILLS

Flute Type

Standard Helix, Right Hand

Point Angle

118°

Surface Treatment

Gold Oxide

Application

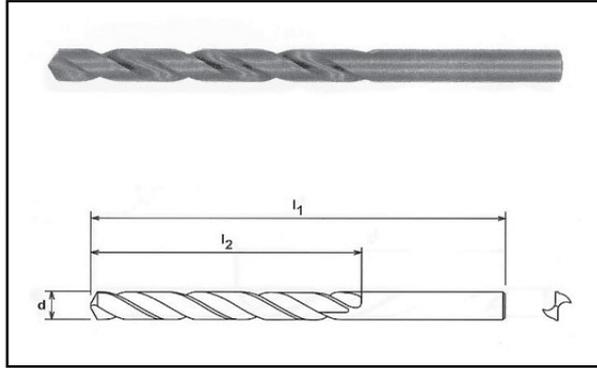
For drilling high tensile steels and other difficult materials.

Options

Tin, TiCN & TiALN Coating

Nitriding

Steam Temper



CODE TYPE

112

METRIC, FRACTIONAL

HSS-CO

ISO 235
 DIN 338
 BS 328

CODE	d	l ₂	l ₁	BAHT
1121170	11.7	94	142	
1121180	11.8	94	142	
1121190	11.9	101	151	
1121191	15/32	101	151	
1121200	12	101	151	
1121210	12.1	101	151	
1121220	12.2	101	151	
1121230	12.3	101	151	
1121231	31/64	101	151	

CODE	d	l ₂	l ₁	BAHT
1121240	12.4	101	151	
1121250	12.5	101	151	
1121260	12.6	101	151	
1121270	12.7	101	151	
1121271	1/2	101	151	
1121280	12.8	101	151	
1121290	12.9	101	151	
1121300	13	101	151	

Tolerance (h8) on Cutting Diameter

Diameter	millimetres				
	≤3	3-6	6-10	10-18	18-30
h8	+0 -14	+0 -18	+0 -22	+8 -27	+0 -33

Tolerance in μ (1/1000mm)



STRAIGHT SHANK LONG SERIES DRILLS



DIN 340

Unit : mm

CODE	Dc	l	L	BAHT
1160100-SO	1	33	56	
1160110-SO	1.1	33	56	
1160120-SO	1.2	41	65	
1160130-SO	1.3	41	65	
1160140-SO	1.4	45	70	
1160150-SO	1.5	45	70	
1170159-SO	1.587(1/16")	50	76	
1160160-SO	1.6	50	76	
1160170-SO	1.7	50	76	
1160180-SO	1.8	53	80	
1160190-SO	1.9	53	80	
1160200-SO	2	56	85	
1160210-SO	2.1	56	85	
1160220-SO	2.2	56	85	
1160230-SO	2.3	56	85	
1170238-SO	2.381(3/32")	62	95	
1160240-SO	2.4	62	95	
1160250-SO	2.5	62	95	
1160260-SO	2.6	62	95	
1160270-SO	2.7	66	100	
1160280-SO	2.8	66	100	
1160290-SO	2.9	66	100	
1160300-SO	3	66	100	
1160310-SO	3.1	69	106	
1170318-SO	3.175(1/8")	69	106	
1160320-SO	3.2	69	106	
1160330-SO	3.3	69	106	
1160340-SO	3.4	73	112	
1160350-SO	3.5	73	112	
1160360-SO	3.6	73	112	
1160370-SO	3.7	73	112	
1160380-SO	3.8	78	119	
1160390-SO	3.9	78	119	
1170397-SO	3.969(5/32")	78	119	
1160400-SO	4	78	119	
1160410-SO	4.1	78	119	
1160420-SO	4.2	78	119	
1160430-SO	4.3	82	126	
1160440-SO	4.4	82	126	
1160450-SO	4.5	82	126	
1171111-SO	4.6	82	126	
1160470-SO	4.7	82	126	
1170476-SO	4.762(3/16")	87	132	
1160480-SO	4.8	87	132	
1160490-SO	4.9	87	132	
1160500-SO	5	87	132	
1160510-SO	5.1	87	132	
1160520-SO	5.2	87	132	
1160530-SO	5.3	87	132	
1160540-SO	5.4	91	139	
1160550-SO	5.5	91	139	
1170556-SO	5.556(7/32")	91	139	
1160560-SO	5.6	91	139	
1160570-SO	5.7	91	139	
1160580-SO	5.8	91	139	

CODE	Dc	l	L	BAHT
1160590-SO	5.9	91	139	
1160600-SO	6	91	139	
1160610-SO	6.1	97	148	
1160620-SO	6.2	97	148	
1160630-SO	6.3	97	148	
1170635-SO	6.350(1/4")	97	148	
1160640-SO	6.4	97	148	
1160650-SO	6.5	97	148	
1160660-SO	6.6	97	148	
1160670-SO	6.7	97	148	
1160680-SO	6.8	102	156	
1160690-SO	6.9	102	156	
1160700-SO	7.0	102	156	
1160710-SO	7.1	102	156	
1170714-SO	7.144(9/32")	102	156	
1160720-SO	7.2	102	156	
1160730-SO	7.3	102	156	
1160740-SO	7.4	102	156	
1160750-SO	7.5	102	156	
1160760-SO	7.6	109	165	
1160770-SO	7.7	109	165	
1160780-SO	7.8	109	165	
1160790-SO	7.9	109	165	
1170794-SO	7.937(5/16")	109	165	
1160800-SO	8	109	165	
1160820-SO	8.2	109	165	
1160850-SO	8.5	109	165	
1160873-SO	8.731(11/22")	115	175	
1160880-SO	8.8	115	175	
1160900-SO	9	115	175	
1160920-SO	9.2	115	175	
1160950-SO	9.5	115	175	
1170953-SO	9.525(3/8")	121	184	
1160980-SO	9.8	121	184	
1161000-SO	10	121	184	
1161020-SO	10.2	121	184	
1171032-SO	10.319(13/32")	121	184	
1161050-SO	10.5	121	184	
1161080-SO	10.8	128	195	
1161100-SO	11	128	195	
1171111-SO	11.112(7/16")	128	195	
1161120-SO	11.2	128	195	
1161150-SO	11.5	128	195	
1161180-SO	11.8	128	195	
1161200-SO	12	134	205	
1161220-SO	12.2	134	205	
1161250-SO	12.5	134	205	
1171270-SO	12.7(1/2")	134	205	
1161280-SO	12.8	134	205	
1161300-SO	13	134	205	
1161400-SO	14	140	214	
1171429-SO	14.287(9/16")	140	214	
1161500-SO	15	140	214	
1171588-SO	15.875(5/8)	149	227	
1161600-SO	16	149	227	



STRAIGHT SHANK EXTRA LENGTH DRILLS



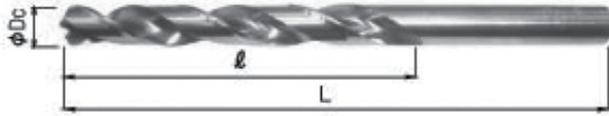
DIN 3292

Unit : mm

CODE	Dc	ℓ	L	BAHT	CODE	Dc	ℓ	L	BAHT
1220150-SO	1.5	100	160		1230650-SO	6.5	160	200	
1210200-SO	2	80	125		1240650-SO	6.5	200	250	
1220200-SO	2	100	160		1230700-SO	7	160	200	
1230200-SO	2	160	200		1240700-SO	7	200	250	
1210250-SO	2.5	80	125		1250700-SO	7	250	315	
1220250-SO	2.5	100	160		1260700-SO	7	300	400	
1230250-SO	2.5	160	200		1230750-SO	7.5	160	200	
1210300-SO	3	80	125		1240750-SO	7.5	200	250	
1220300-SO	3	100	160		1230800-SO	8	160	200	
1230300-SO	3	160	200		1240800-SO	8	200	250	
1240300-SO	3	200	250		1250800-SO	8	250	315	
1250300-SO	3	250	315		1260800-SO	8	300	400	
1220350-SO	3.5	100	160		1230850-SO	8.5	160	200	
1230350-SO	3.5	160	200		1240850-SO	8.5	200	250	
1240350-SO	3.5	200	250		1230900-SO	9	160	200	
1220400-SO	4	100	160		1240900-SO	9	200	250	
1230400-SO	4	160	200		1250900-SO	9	250	315	
1240400-SO	4	200	250		1260900-SO	9	300	400	
1250400-SO	4	250	315		1230950-SO	9.5	160	200	
1260400-SO	4	300	400		1240950-SO	9.5	200	250	
1220450-SO	4.5	100	160		1231000-SO	10	160	200	
1230450-SO	4.5	160	200		1241000-SO	10	200	250	
1240450-SO	4.5	200	250		1251000-SO	10	250	315	
1220500-SO	5	100	160		1261000-SO	10	300	400	
1230500-SO	5	160	200		1241050-SO	10.5	200	250	
1240500-SO	5	200	250		1241100-SO	11	200	250	
1250500-SO	5	250	315		1251100-SO	11	250	315	
1260500-SO	5	300	400		1261100-SO	11	300	400	
1220550-SO	5.5	100	160		1241150-SO	11.5	200	250	
1230550-SO	5.5	160	200		1241200-SO	12	200	250	
1240550-SO	5.5	200	250		1251200-SO	12	250	315	
1220600-SO	6	100	160		1261200-SO	12	300	400	
1230600-SO	6	160	200		1241250-SO	12.5	200	250	
1240600-SO	6	200	250		1241300-SO	13	200	250	
1250600-SO	6	250	315		1251300-SO	13	250	315	
1260600-SO	6	300	400		1261300-SO	13	300	400	



NDX JOBBER DRILLS • HEAVY DUTY



DIN 338

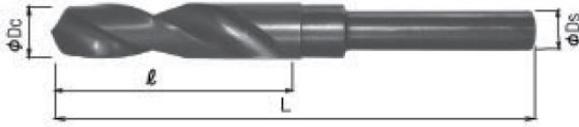
Unit : mm

CODE	Dc	ℓ	L	BAHT
1770100-SO	1	12	34	
1770150-SO	1.5	48	40	
1770159-SO	1.587(1/6")	20	43	
1770160-SO	1.6	20	43	
1770170-SO	1.7	20	43	
1770180-SO	1.8	22	46	
1770190-SO	1.9	22	46	
1770198-SO	1.984(5/64")	24	49	
1770200-SO	2	24	49	
1770210-SO	2.1	24	49	
1770220-SO	2.2	27	53	
1770230-SO	2.3	27	53	
1770238-SO	2.381(3/32")	30	57	
1770240-SO	2.4	30	57	
1770250-SO	2.5	30	57	
1770260-SO	2.6	30	57	
1770270-SO	2.7	33	61	
1770278-SO	2.778(7/64")	33	61	
1770280-SO	2.8	33	61	
1770290-SO	2.9	33	61	
1770300-SO	3	33	61	
1770318-SO	3.175(1/8")	36	65	
1770320-SO	3.2	36	65	
1770330-SO	3.3	36	65	
1770340-SO	3.4	39	70	
1770350-SO	3.5	39	70	
1770357-SO	3.572(9/64")	39	70	
1770360-SO	3.6	39	70	
1770370-SO	3.7	39	70	
1770380-SO	3.8	43	75	
1770290-SO	3.9	43	75	
1770397-SO	3.969(5/32")	43	75	
1770400-SO	4	43	75	
1770410-SO	4.1	43	75	
1770420-SO	4.2	43	75	
1770430-SO	4.3	47	80	
1770437-SO	4.366(11/64")	47	80	
1770440-SO	4.4	47	80	
1770450-SO	4.5	47	80	
1770460-SO	4.6	47	80	
1770470-SO	4.7	47	80	
1770476-SO	4.762(3/16")	52	86	
1770480-SO	4.8	52	86	
1770490-SO	4.9	52	86	
1770500-SO	5	52	86	
1770510-SO	5.1	52	86	
1770516-SO	5.159(13/64")	52	86	
1770520-SO	5.2	52	86	
1770530-SO	5.3	52	86	
1770540-SO	5.4	57	93	
1770550-SO	5.5	57	93	
1770556-SO	5.556(7/32")	57	93	
1770560-SO	5.6	57	93	
1770570-SO	5.7	57	93	
1770580-SO	5.8	57	93	
1770590-SO	5.9	57	93	
1770595-SO	5.953(15/64")	57	93	
1770600-SO	6	57	93	
1770610-SO	6.1	63	101	
1770620-SO	6.2	63	101	
1770630-SO	6.3	63	101	
1770635-SO	6.350(1/4")	63	101	
1770640-SO	6.4	63	101	
1770650-SO	6.5	63	101	
1770660-SO	6.6	63	101	
1770670-SO	6.7	63	101	
1770675-SO	6.747(17/64")	69	109	

CODE	Dc	ℓ	L	BAHT
1770680-SO	6.8	69	109	
1770690-SO	6.9	69	109	
1770700-SO	7	69	109	
1770710-SO	7.1	69	109	
1770720-SO	7.2	69	109	
1770730-SO	7.3	69	109	
1770740-SO	7.4	69	109	
1770750-SO	7.5	69	109	
1770754-SO	7.541(19/64")	75	117	
1770760-SO	7.6	75	117	
1770770-SO	7.7	75	117	
1770780-SO	7.8	75	117	
1770790-SO	7.9	75	117	
1770794-SO	7.937(5/16")	75	117	
1770800-SO	8	75	117	
1770810-SO	8.1	75	117	
1770820-SO	8.2	75	117	
1770830-SO	8.3	75	117	
1770833-SO	8.334(21/64")	75	117	
1770840-SO	8.4	75	117	
1770850-SO	8.5	75	117	
1770860-SO	8.6	81	125	
1770870-SO	8.7	81	125	
1770873-SO	8.731(11/32")	81	125	
1770880-SO	8.8	81	125	
1770890-SO	8.9	81	125	
1770990-SO	9	81	125	
1770910-SO	9.1	81	125	
1770920-SO	9.2	81	125	
1770930-SO	9.3	81	125	
1770940-SO	9.4	81	125	
1770950-SO	9.5	81	125	
1770953-SO	9.525(3/8")	87	133	
1770960-SO	9.6	87	133	
1770970-SO	9.7	87	133	
1770980-SO	9.8	87	133	
1770990-SO	9.9	87	133	
1771000-SO	10	87	133	
1771010-SO	10.1	87	133	
1771020-SO	10.2	87	133	
1771030-SO	10.3	87	133	
1771032-SO	10.319(12/32")	87	133	
1771040-SO	10.4	87	133	
1771050-SO	10.5	87	133	
1771070-SO	10.7	94	142	
1771080-SO	10.8	94	142	
1771100-SO	11	94	142	
1771110-SO	11.1	94	142	
1771111-SO	11.112(7/16")	94	142	
1771120-SO	11.2	94	142	
1771130-SO	11.3	94	142	
1771140-SO	11.4	94	142	
1771150-SO	11.5	94	142	
1771170-SO	11.7	94	142	
1771180-SO	11.8	94	142	
1771200-SO	12	101	151	
1771210-SO	12.1	101	151	
1771220-SO	12.2	101	151	
1771230-SO	12.3	101	151	
1771240-SO	12.4	101	151	
1771250-SO	12.5	101	151	
1771260-SO	12.6	101	151	
1771269-SO	12.700(1/2")	101	151	
1771270-SO	12.7	101	151	
1771280-SO	12.8	101	151	
1771290-SO	12.9	101	151	
1771300-SO	13	101	151	



REDUCED SHANK (ELECTRICIANS) DRILLS



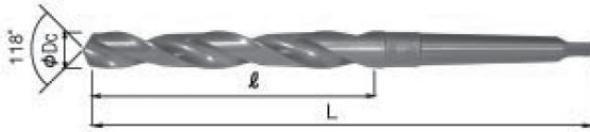
Unit : mm

CODE	Dc	l	L	Ds	BAHT
1751100-SO	11	94	142	10	
1751150-SO	11.5	94	142	10	
1751200-SO	12	101	151	10	
1751250-SO	12.5	101	151	10	
1761270-SO	12.700(1/2")	101	151	10	
1751300-SO	13	80	152	10	
1761349-SO	13.494(17/32")	80	152	1/2"	
1751350-SO	13.5	80	152	12.7	
1751400-SO	14	80	152	12.7	
1761429-SO	14.287(9/16")	80	152	1/2"	
1751450-SO	14.5	80	152	12.7	
1751500-SO	15	80	152	12.7	
1761508-SO	15.081(19/32")	80	152	1/2"	
1751550-SO	15.5	80	152	12.7	
1761588-SO	15.875(5/8")	80	152	1/2"	
1751600-SO	16	80	152	12.7	
1751650-SO	16.5	80	152	12.7	
1761667-SO	16.669(21/32")	80	152	1/2"	
1751700-SO	17	80	152	12.7	
1761746-SO	17.462(11/16")	80	152	1/2"	
1751750-SO	17.5	80	152	12.7	

CODE	Dc	l	L	Ds	BAHT
1751800-SO	18	80	152	12.7	
1751850-SO	18.5	80	152	12.7	
1751900-SO	19	80	152	12.7	
1761905-SO	19.050(3/4")	80	152	1/2"	
1751950-SO	19.5	76	152	12.7	
1750000-SO	20	76	152	12.7	
1752050-SO	20.5	76	152	12.7	
1762064-SO	20.637(13/16")	76	152	1/2"	
1752100-SO	21	76	152	12.7	
1752150-SO	21.5	76	152	12.7	
1752200-SO	22	76	152	12.7	
1762223-SO	22.225(7/8")	76	152	1/2"	
1752250-SO	22.5	76	152	12.7	
1752300-SO	23	76	152	12.7	
1752350-SO	23.5	76	152	12.7	
1762381-SO	23.812(15/16")	76	152	1/2"	
1752400-SO	24	76	152	12.7	
1752450-SO	24.5	76	152	12.7	
1752500-SO	25	76	152	12.7	
1762540-SO	25.400(1")	76	152	1/2"	



MORSE TAPER SHANK DRILLS



DIN 345

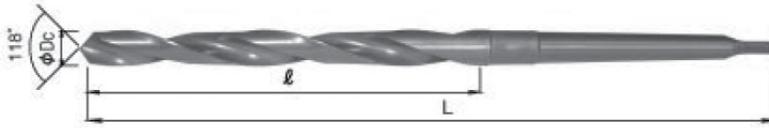
Unit : mm

CODE	Dc	l	L	Ds	BAHT
2010300-SO	3	33	114	MT1	
2010350-SO	3.5	39	120	MT1	
2010400-SO	4	43	124	MT1	
2010450-SO	4.5	47	128	MT1	
2010500-SO	5	52	133	MT1	
2010550-SO	5.5	57	138	MT1	
2010600-SO	6	57	138	MT1	
2010650-SO	6.5	63	144	MT1	
2010700-SO	7	69	150	MT1	
2010750-SO	7.5	69	150	MT1	
2010800-SO	8	75	156	MT1	
2010850-SO	8.5	75	156	MT1	
2010900-SO	9	81	162	MT1	
2010950-SO	9.5	81	162	MT1	
2011000-SO	10	87	168	MT1	
2011050-SO	10.5	87	168	MT1	
2011100-SO	11	94	175	MT1	
2011150-SO	11.5	94	175	MT1	
2011200-SO	12	101	182	MT1	
2011250-SO	12.5	101	182	MT1	
2011300-SO	13	101	182	MT1	
2011350-SO	13.5	108	189	MT1	
2011400-SO	14	108	189	MT1	
2011400-SO	14	114	212	MT2	
2021450-SO	14.5	114	212	MT2	
2021500-SO	15	114	212	MT2	
2021550-SO	15.5	120	218	MT2	
2021600-SO	16	120	218	MT2	
2021650-SO	16.5	125	223	MT2	
2021700-SO	17	125	223	MT2	
2021750-SO	17.5	130	228	MT2	
2021800-SO	18	130	228	MT2	
2021850-SO	18.5	135	233	MT2	
2021900-SO	19	135	233	MT2	
2021950-SO	19.5	140	238	MT2	
2022000-SO	20	140	238	MT2	
2022050-SO	20.5	145	243	MT2	
2022100-SO	21	145	243	MT2	
2022150-SO	21.5	150	248	MT2	
2022200-SO	22	150	248	MT2	
2022250-SO	22.5	155	253	MT2	
2022300-SO	23	155	253	MT2	
2032350-SO	23.5	155	276	MT3	
2032400-SO	24	160	281	MT3	
2032450-SO	24.5	160	281	MT3	
2032500-SO	25	160	281	MT3	
2032550-SO	25.5	165	286	MT3	
2032600-SO	26	165	286	MT3	
2032650-SO	26.5	165	286	MT3	

CODE	Dc	l	L	Ds	BAHT
2032700-SO	27	170	291	MT3	
2032750-SO	27.5	170	291	MT3	
2032800-SO	28	170	291	MT3	
2032850-SO	28.5	175	296	MT3	
2032900-SO	29	175	296	MT3	
2032950-SO	29.5	175	296	MT3	
2033000-SO	30	175	296	MT3	
2033050-SO	30.5	180	301	MT3	
2033100-SO	31	180	301	MT3	
2033150-SO	31.5	180	301	MT3	
2033200-SO	32	180	301	MT3	
2043200-SO	32	185	306	MT4	
2043250-SO	32.5	185	306	MT4	
2043300-SO	33	185	306	MT4	
2043350-SO	33.5	185	306	MT4	
2043400-SO	34	190	339	MT4	
2043450-SO	34.5	190	339	MT4	
2043500-SO	35	190	339	MT4	
2043550-SO	35.5	190	339	MT4	
2043600-SO	36	195	344	MT4	
2043650-SO	36.5	195	344	MT4	
2043700-SO	37	195	344	MT4	
2043750-SO	37.5	195	344	MT4	
2043800-SO	38	200	349	MT4	
2043850-SO	38.5	200	349	MT4	
2043900-SO	39	200	349	MT4	
2043950-SO	39.5	200	349	MT4	
2044000-SO	40	200	349	MT4	
2044050-SO	40.5	205	354	MT4	
2044100-SO	41	205	354	MT4	
2044150-SO	41.5	205	354	MT4	
2044200-SO	42	205	354	MT4	
2044250-SO	42.5	205	354	MT4	
2044300-SO	43	210	359	MT4	
2044350-SO	43.5	210	359	MT4	
2044400-SO	44	210	359	MT4	
2044450-SO	44.5	210	359	MT4	
2044500-SO	45	210	359	MT4	
2044550-SO	45.5	215	539	MT4	
2044600-SO	46	215	539	MT4	
2044650-SO	46.5	215	539	MT4	
2044700-SO	47	215	539	MT4	
2044750-SO	47.5	215	539	MT4	
2044800-SO	48	215	539	MT4	
2044850-SO	48.5	220	369	MT4	
2044900-SO	49	220	369	MT4	
2044950-SO	49.5	220	369	MT4	
2045000-SO	50	220	369	MT4	



MTS EXTRA LENGTH DRILL



Unit : mm

CODE	Dc	ℓ	L	Ds	BAHT
2421000-SO	10	200	315	MT1	
2421150-SO	10.5	200	315	MT1	
2421100-SO	11	200	315	MT1	
2441100-SO	11	300	400	MT1	
2421150-SO	11.5	200	315	MT1	
2421200-SO	12	200	315	MT1	
2441200-SO	12	300	400	MT1	
2421300-SO	13	200	315	MT1	
2441300-SO	13	300	400	MT1	
2421400-SO	14	200	315	MT1	
2441400-SO	14	300	400	MT1	
2421500-SO	15	200	315	MT1	
2441500-SO	15	300	400	MT2	
2421600-SO	16	200	315	MT2	
2441600-SO	16	300	400	MT2	
2421700-SO	17	200	315	MT2	
2441700-SO	17	300	400	MT2	
2421800-SO	18	200	315	MT2	

CODE	Dc	ℓ	L	Ds	BAHT
2441800-SO	18	300	400	MT2	
2421900-SO	19	200	315	MT2	
2441900-SO	19	300	400	MT2	
2422000-SO	20	200	315	MT2	
2442000-SO	20	300	400	MT2	
2422100-SO	21	200	315	MT2	
2442100-SO	21	300	400	MT2	
2422200-SO	22	200	315	MT2	
2442200-SO	22	300	400	MT2	
2422300-SO	23	200	315	MT2	
2442300-SO	23	300	400	MT2	
2422400-SO	24	300	450	MT3	
2442500-SO	25	300	450	MT3	
2442600-SO	26	300	450	MT3	
2442700-SO	27	300	450	MT3	
2442800-SO	28	300	450	MT3	
2442900-SO	29	300	450	MT3	
2443000-SO	30	300	450	MT3	



NC SPOT DRILL

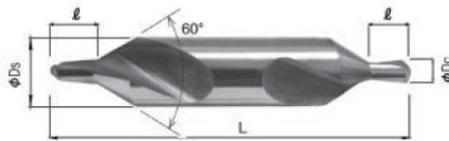


DIN 1879

Unit : mm

CODE	Dc	ℓ	L	BAHT
1840300-SO	3	10	46	
1840400-SO	4	12	55	
1840500-SO	5	14	62	
1840600-SO	6	16	66	
1840800-SO	8	21	79	
1841000-SO	10	25	89	
1841200-SO	12	30	102	
1841600-SO	16	38	115	
1842000-SO	20	45	131	

FORM A CENTRE DRILL



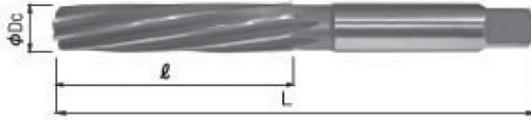
DIN 333

Unit : mm

CODE	Dc	Ds	ℓ	L	BAHT
1140080-SO	0.8	3.15	1.1	25	
1140100-SO	1	3.15	1.3	31.5	
1140125-SO	(1.25)	3.15	1.6	31.5	
1140160-SO	1.6	4	2	35.5	
1140200-SO	2	5	2.5	40	
1140250-SO	2.5	6.3	3.1	45	
1140315-SO	3.15	8	3.9	50	
1140400-SO	4	10	5	56	
1140500-SO	(5)	12.5	6.3	63	
1140630-SO	6.3	16	8	71	
1140800-SO	(8)	20	10.1	80	
1141000-SO	10	25	12.8	100	



PARALLEL HAND DRILLS



BS328
 ISO 236/1
 DIN206

Unit : mm

CODE	Dc	l	L	BAHT
7010150-SO	1.5	20	41	
7010200-SO	2	25	50	
7010250-SO	2.5	29	58	
7010300-SO	3	31	62	
7010350-SO	3.5	35	71	
7010400-SO	4	38	76	
7010450-SO	4.5	41	81	
7010500-SO	5	44	87	
7010550-SO	5.5	47	93	
7010600-SO	6	47	93	
7010650-SO	6.5	50	100	
7010700-SO	7	54	107	
7010750-SO	7.5	54	107	
7010800-SO	8	58	115	
7010850-SO	8.5	58	115	
7010900-SO	9	62	124	
7010950-SO	9.5	62	124	
7011000-SO	10	66	133	
7011050-SO	10.5	66	133	
7011100-SO	11	71	142	
7011150-SO	11.5	71	142	
7011200-SO	12	76	152	
7011250-SO	12.5	76	152	
7011300-SO	13	76	152	
7011350-SO	13.5	81	163	
7011400-SO	14	81	163	

CODE	Dc	l	L	BAHT
7011450-SO	14.5	81	163	
7011500-SO	15	81	163	
7011550-SO	15.5	87	175	
7011600-SO	16	87	175	
7011700-SO	17	87	175	
7011800-SO	18	93	188	
7011900-SO	19	93	188	
7012000-SO	20	100	201	
7012100-SO	21	100	201	
7012200-SO	22	107	215	
7012300-SO	23	107	215	
7012400-SO	24	115	231	
7012500-SO	25	115	231	
7012600-SO	26	115	231	
7012700-SO	27	124	247	
7012800-SO	28	124	247	
7012900-SO	29	124	247	
7013000-SO	30	124	247	
7013100-SO	31	133	265	
7013200-SO	32	133	265	
7013300-SO	33	133	265	
7013400-SO	34	133	265	
7013500-SO	35	133	265	
7013600-SO	36	142	284	
7013700-SO	37	142	284	
7013800-SO	38	142	284	



PARALLEL SHANK MACHINE CHUCKING REAMERS



DIN 212

Unit : mm

CODE	Dc	l	L	Ds	BAHT
7510200-SO	2	11	49	2	
7510240-SO	2.4	14	57	2.4	
7510250-SO	2.5	14	57	2.5	
7510260-SO	2.6	14	57	2.6	
7510270-SO	2.7	15	61	2.7	
7510280-SO	2.8	15	61	2.8	
7510300-SO	3	15	61	3	
7510310-SO	3.1	16	65	3.1	
7520318-SO	3.175(1/8)	16	65	3.2	
7510320-SO	3.2	16	65	3.2	
7510340-SO	3.4	18	70	3.4	
7510350-SO	3.5	18	70	3.5	
7510360-SO	3.6	18	70	3.6	
7510380-SO	3.8	19	75	4	
7510400-SO	4	19	75	4	
7510410-SO	4.1	19	75	4	
7510420-SO	4.2	19	75	4	
7510430-SO	4.3	21	80	4.5	
7510440-SO	4.4	21	80	4.5	
7510450-SO	4.5	21	80	4.5	
7520476-SO	4.762(3/16)	23	86	5	
7510480-SO	4.8	23	86	5	
7510490-SO	4.9	23	86	5	
7510500-SO	5	23	86	5	
7510510-SO	5.1	23	86	5	
7510520-SO	5.2	23	86	5	
7510530-SO	5.3	23	86	5	
7510540-SO	5.4	26	93	5.6	
7510550-SO	5.5	26	93	5.6	
7510560-SO	5.6	26	93	5.6	
7510570-SO	5.7	26	93	5.6	
7510580-SO	5.8	26	93	5.6	
7510600-SO	6	26	93	5.6	
7510610-SO	6.1	28	101	6.3	
7510620-SO	6.2	28	101	6.3	
7510630-SO	6.3	28	101	6.3	
7520635-SO	6.35(1/4)	28	101	6.3	
7510640-SO	6.4	28	101	6.3	
7510650-SO	6.5	28	101	6.3	
7510660-SO	6.6	28	101	6.3	
7510670-SO	6.7	28	101	6.3	
7510680-SO	6.8	31	109	7.1	
7510700-SO	7	31	109	7.1	
7510710-SO	7.1	31	109	7.1	
7510720-SO	7.2	31	109	7.1	
7510730-SO	7.3	31	109	7.1	
7510750-SO	7.5	31	109	7.1	
7510780-SO	7.8	33	117	8	
7510790-SO	7.9	33	117	8	
7520794-SO	7.937(5/16)	33	117	8	
7510800-SO	8	33	117	8	
7510810-SO	8.1	33	117	8	
7510820-SO	8.2	33	117	8	
7510830-SO	8.3	33	117	8	

CODE	Dc	l	L	Ds	BAHT
7510840-SO	8.4	33	117	8	
7510850-SO	8.5	33	117	8	
7510860-SO	8.6	36	125	9	
7510880-SO	8.8	36	125	9	
7510890-SO	8.9	36	125	9	
7510900-SO	9	36	125	9	
7510910-SO	9.1	36	125	9	
7510950-SO	9.5	36	125	9	
7520953-SO	9.525(3/8)	38	133	10	
7510960-SO	9.6	38	133	10	
7510970-SO	9.7	38	133	10	
7510980-SO	9.8	38	133	10	
7510990-SO	9.9	38	133	10	
7511000-SO	10	38	133	10	
7511010-SO	10.1	38	133	10	
7511020-SO	10.2	38	133	10	
7511030-SO	10.3	38	133	10	
7511050-SO	10.5	38	133	10	
7511060-SO	10.6	38	133	10	
7511070-SO	10.7	41	142	10	
7511080-SO	10.8	41	142	10	
7511090-SO	10.9	41	142	10	
7511100-SO	11	41	142	10	
7511110-SO	11.1	41	142	10	
7521111-SO	11.112(7/16)	41	142	10	
7511150-SO	11.5	41	142	10	
7511170-SO	11.7	41	142	10	
7511180-SO	11.8	41	142	10	
7511190-SO	11.9	44	151	10	
7511200-SO	12	44	151	10	
7511210-SO	12.1	44	151	10	
7511220-SO	12.2	44	151	10	
7511230-SO	12.3	44	151	10	
7511240-SO	12.4	44	151	10	
7511250-SO	12.5	44	151	10	
7511260-SO	12.6	44	151	10	
7511270-SO	12.7	44	151	10	
7521270-SO	12.7(1/2)	44	151	10	
7511280-SO	12.8	44	151	10	
7511290-SO	12.9	44	151	10	
7511300-SO	13	44	151	10	
7511350-SO	13.5	47	160	12.5	
7511400-SO	14	47	160	12.5	
7521429-SO	14.287(9/16)	50	162	12.5	
7511450-SO	14.5	50	162	12.5	
7511500-SO	15	50	162	12.5	
7511550-SO	15.5	52	170	12.5	
7521588-SO	15.875(5/8)	52	170	12.5	
7511600-SO	16	52	170	12.5	
7511700-SO	17	54	175	14	
7511800-SO	18	56	182	14	
7521905-SO	19.05(3/4)	60	195	16	
7512000-SO	20	60	195	16	



แมชชีนริมเมอร์พีนเฉียง - ก้านเทเปอร์ MTS PARALLEL MACHINE REAMERS

Execution

10° Left hand spiral

Shank

Morse taper shank

Surface Treatment

Blue flutes, bright lands.

Application

General machine reaming

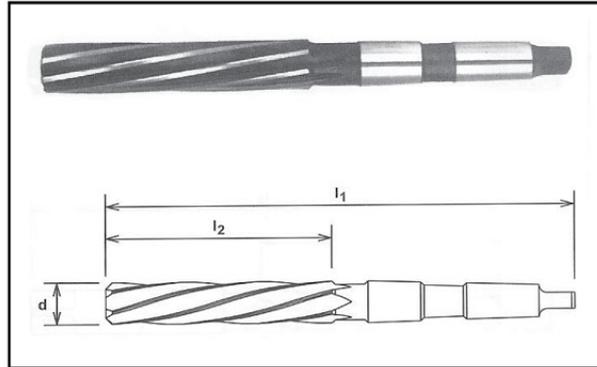
Options

TiN Coating

Steam Temper

Tolerance

To produce H7 hole.



CODE TYPE
711 - METRIC
712 - FRACTIONAL

HSS

ISO 236/11
 BS 328

CODE	d		mm EQUIV	l ₂	l ₁	BAHT
	mm	inch				
No.1 Morse Taper Shank						
7110300	3.0			32	115	
7120318		1/8	3.175	32	115	
7110350	3.5			32	115	
7120397		5/32	3.969	32	115	
7110400	4			38	120	
7110450	4.5			38	120	
7120476		3/16	4.762	38	120	
7110500	5.0			38	120	
7110550	5.5			45	127	
7120556		7/32	5.556	45	127	
7110600	6.0			45	127	
7120635		1/4	6.350	50	130	
7110650	6.5			50	130	
7110700	7.0			54	134	
7120714		9/32	7.144	54	134	
7110750	7.5			54	134	
7120794		5/16	7.937	58	138	
7110800	8.0			58	138	
7110850	8.5			58	138	
7120873		11/32	8.731	62	142	
7110900	9.0			62	142	
7110950	9.5			62	142	
7120953		3/8	9.525	66	146	
7111000	10.0			66	146	
7121032		13/32	10.319	66	146	
7111050	10.5			66	146	
7111100	11.0			71	151	
7121111		7/16	11.112	71	151	
7111150	11.5			71	151	
7121191		15/32	11.906	76	156	
7111200	12.0			76	156	

CODE	d		mm EQUIV	l ₂	l ₁	BAHT
	mm	inch				
7111250	12.5			76	156	
7121270		1/2	12.700	76	156	
7111300	13.0			76	156	
7121349		17/32	13.494	81	161	
7111350	13.5			81	161	
7111400	14.0			81	161	
No.2 Morse Taper Shank						
7121429		9/16	14.287	81	161	
7111450	14.5			81	161	
7111500	15.0			81	161	
7121508		19/32	15.081	87	187	
7111550	15.5			87	187	
7121588		5/8	15.875	87	187	
7111600	16.0			87	187	
7111650	16.5			87	187	
7121667		21/32	16.669	87	187	
7111700	17.0			87	187	
7121746		11/16	17.462	93	193	
7111750	17.5			93	193	
7111800	18.0			93	193	
7121826		23/32	18.256	93	193	
7111850	18.5			93	193	
7111900	19.0			93	193	
7121905		3/4	19.050	100	200	
7111950	19.5			100	200	
7121984		25/32	19.844	100	200	
7112000	20.0			100	200	
7112050	20.5			100	200	
7122064		13/16	20.637	100	200	
7112100	21.0			100	200	
7122143		27/32	21.431	107	207	



แมชชีนริมเมอร์ฟันเฉียง - ก้านทAPER MTS PARALLEL MACHINE REAMERS

Execution

10° Left hand spiral

Shank

Morse taper shank

Surface Treatment

Blue flutes, bright lands.

Application

General machine reaming

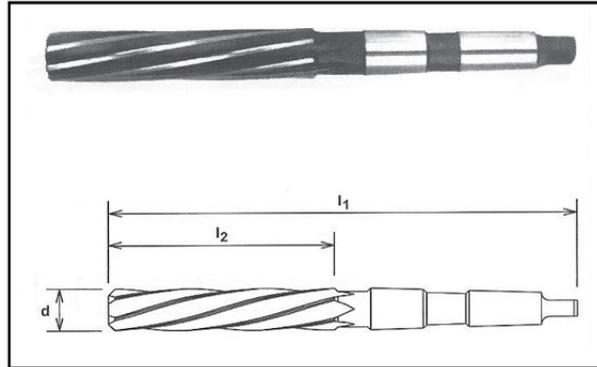
Options

TiN Coating

Steam Temper

Tolerance

To produce H7 hole.



CODE TYPE
711 - METRIC
712 - FRACTIONAL

HSS

ISO 236/11
 BS 328

CODE	d		mm EQUIV	l ₂	l ₁	BAHT
	mm	inch				
7112150	21.5			207	207	
7112200	22.0			207	207	
7122223		7/8	22.225	207	207	
7122250	22.5			207	207	
7112300	23.0			207	207	
7122302		29/32	23.019	207	207	
No.3 Morse Taper Shank						
7112350	23.5			207	207	
7122381		15/16	23.812	115	242	
7112400	24.0			115	242	
7112450	24.5			115	242	
7122461		31/32	24.606	115	242	
7112500	25.0			115	242	
7122540		1"	25.400	115	242	
7112550	25.5			115	242	
7112600	26.0			115	242	
7112650	26.5			115	242	
7122699		1-1/16	26.987	124	251	
7112700	27.0			124	251	
7112750	27.5			124	251	
7112800	28.0			124	251	
7112850	28.5			124	251	
7122858		1-1/8	28.575	124	251	
7112900	29.0			124	251	
7112950	29.5			124	251	
7113000	30.0			124	251	
7123016		1-3/16	30.162	133	260	
7113100	31.0			133	260	

CODE	d		mm EQUIV	l ₂	l ₁	BAHT
	mm	inch				
7123175		1-1/4	31.750	133	250	
No.4 Morse Taper Shank						
7113200	32.0					
7113300	33.0					
7123334		1-5/16	33.337			
7113400	34.0					
7123493		1-3/8	34.925			
7113500	35.0					
7113600	36.0					
7123651		1-7/16	36.512			
7113700	37.0					
7113800	38.0					
7123810		1-1/2	38.100			
7113900	39.0					
7114000	40.0					
7114100	41.0					
7124128		1-5/8	41.275			
7114200	42.0					
7114300	43.0					
7114400	44.0					
7124445		1-3/4	44.450			
7114500	45.0					
7114600	46.0					
7114700	47.0					
7124763		1-7/8	47.625			
7114800	48.0					
7114900	49.0					
7115000	50.0					

ชักกึ่งริมเมอร์พื้นเจียง - ก้านเทเปอร์ MTS MACHINE CHUCKINK REAMERS

Execution

10° Left hand spiral

Shank

Morse taper shank

Surface Treatment

Blue flutes, bright lands.

Application

General machine reaming

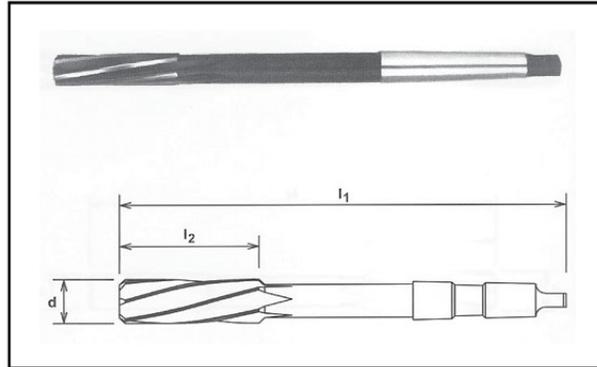
Options

TiN Coating

Steam Temper

Tolerance

To produce H7 hole.



CODE TYPE
741 - METRIC

HSS-Co

ISO 521
 DIN 208

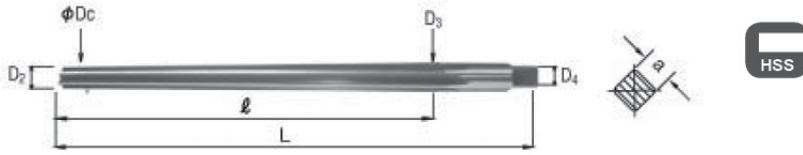
CODE	d		mm EQUIV	l ₂	l ₁	BAHT
	mm	inch				
No.1 Morse Taper Shank						
7410400	4.0			23	133	
7410500	5.0			23	133	
7410600	6.0			26	138	
7410700	7.0			31	150	
7410800	8.0			33	156	
7410900	9.0			36	162	
7411000	10.0			38	168	
7411100	11.0			41	175	
7411200	12.0			44	182	
7411300	13.0			44	182	
7411400	14.0			47	189	
No.2 Morse Taper Shank						
7411500	15.0			50	204	
7411600	16.0			52	210	

FRACTIONAL SIZES AVAILABLE ON REQUEST

CODE	d		mm EQUIV	l ₂	l ₁	BAHT
	mm	inch				
7411700	17.0			54	214	
7411800	18.0			56	219	
7411900	19.0			58	223	
7412000	20.0			60	228	
7412100	21.0			62	232	
7412200	22.0			64	237	
7412300	23.0			66	241	
No.3 Morse Taper Shank						
7412400	24.0			68	268	
7412500	25.0			68	268	
7412600	26.0			70	273	
7412700	27.0			71	277	
7412800	28.0			71	277	
7413000	30.0			73	281	
No.4 Morse Taper Shank						
7413200	32.0			77	317	



HAND TAPER PIN REAMERS



DIN 9

Unit : mm

CODE	Dc	D ₂	D ₃	D ₄	l	a	L	BAHT
7310200-SO	2	1.9	2.86	3.15	48	2.5	68	
7310250-SO	2.5	2.4	3.36	3.15	48	2.5	68	
7310300-SO	3	2.9	4.06	4	58	3.15	80	
7310400-SO	4	3.9	5.26	5	68	4	93	
7310500-SO	5	4.9	6.36	6.3	73	5	100	
7310600-SO	6	5.9	8	8	105	6.3	135	
7310800-SO	8	7.9	10.8	10	145	8	180	
7311000-SO	10	9.9	13.4	12.5	175	10	215	
7311200-SO	12	11.8	16	14	210	11.2	255	
7311300-SO	(13)	12.8	17	15	210	11.2	255	
7311400-SO	(14)	13.8	18	16	210	12.5	255	
7311600-SO	16	15.8	20.4	18	230	14	280	
7312000-SO	20	19.8	24.8	22.4	250	18	310	
7312500-SO	25	24.7	30.7	28	300	22.4	370	

ชักกิ้งริมเมอร์พีนเจียง - ก้านเทเปอร์
MTS MACHINE CHUCKINK REAMERS

Execution

10° Left hand spiral

Shank

Straight shank

Surface Treatment

Blue flutes, bright lands.

Application

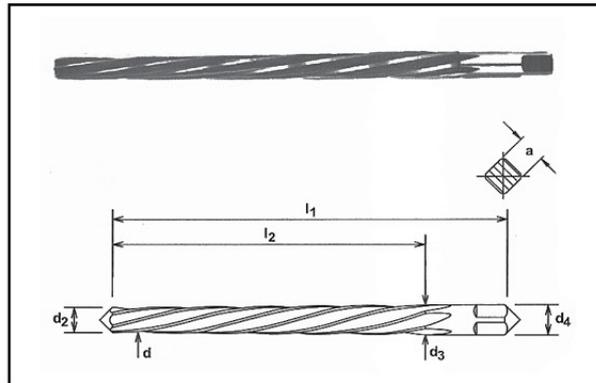
Reaming holes to suit standard taper pins

Options

TiN Coating

Steam Temper

Taper 1:50



CODE TYPE
733 - METRIC

HSS

ISO 3465
DIN 9
TAPER 1:50

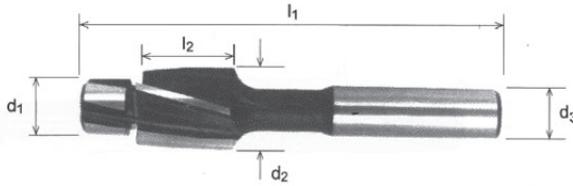
CODE	Nominal Diameter	D ₂	D ₃	D ₄	l ₂	a	l ₁	BAHT
7330400	4	3.9	5.26	5.0	68	4	93	
7330500	5	4.9	6.36	6.3	73	5	100	
7330600	6	5.9	8.0	8.0	105	6.3	135	
7330800	8	7.9	10.8	10.0	145	8	180	
7331000	10	9.9	13.4	12.5	175	10	215	
7331200	12	11.8	16.0	14.0	210	11.2	255	
7331300	(13)	12.8	17.0	15.0	210	11.2	255	
7331400	(14)	13.8	18.0	16.0	210	12.5	255	
7331600	16	15.8	20.4	18.0	230	14	280	
7332000	20	19.8	24.8	22.4	250	16	310	
7332500	25	24.7	30.7	28.0	300	22.4	370	

() Non-recommended sizes, and should be avoided whenever possible.



PARALLEL SHANK COUNTERBORES

CODE
774

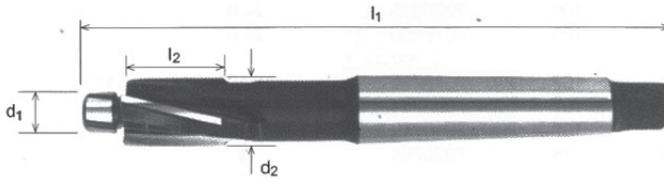


M HSS BS-328 ISO-4206 DIN 373

CODE		To Suit Capscrew	d ₂	d ₁		d ₃	l ₂	l ₁	BAHT
Medium	Fine			Medium	Fine				
7740300	7740301	M3	6	3.4	3.2	5	14	71	
7740350	7740351	M3.5	6.5	3.9	3.7	5	14	71	
7740400	7740401	M4	8	4.5	4.3	5	14	71	
7740500	7740501	M5	10	5.5	5.3	8	18	80	
7740600	7740601	M6	11	6.6	6.4	8	18	80	
7740800	7740801	M8	15	9	8.4	12.5	22	100	
7741000	7741001	M10	18	11	10.5	12.5	22	100	
7741200	7741201	M12	20	14	13	12.5	22	100	

MTS COUNTERBORES

CODE
775



M HSS ISO 4207 DIN 375 MT 2-3

CODE		To Suit Capscrew	d ₂	d ₁		l ₂	Morse Taper	l ₁	BAHT
Medium	Fine			Medium	Fine				
7750800	7750801	M8	15	9	8.4	22	2	132	
7751000	7751001	M10	18	11	10.5	25	2	140	
7751200	7751201	M12	20	14	13	25	2	140	
7751400	7751401	M14	24	16	15	30	2	150	
7751600	7751601	M16	26	18	17	35	3	180	
7751800	7751801	M18	30	20	19	35	3	180	
7752000	7752001	M20	33	22	21	40	3	190	
7752200	7752201	M22	36	24	23	40	3	190	
7752400	7752401	M24	40	26	25	40	3	190	



ดอกสว่านไฮสปีด เจาะเหล็ก ก้านตรง มาตรฐาน JIS
 Straight Shank Drill (METRIC)

LIST 500

VAN NACHI SD Dia. / WW Code NAX500_XXXX



• General purpose, applicable for a wide range of materials such as mild steels, alloy steels, cast irons and so on.



LIST 500

ขนาด Dia. (mm)	F.L. (mm)	O.A.L. (mm)	ราคา ดอกกละ (บาท)	บรรจุ	ขนาด Dia. (mm)	F.L. (mm)	O.A.L. (mm)	ราคา ดอกกละ (บาท)	บรรจุ	ขนาด Dia. (mm)	F.L. (mm)	O.A.L. (mm)	ราคา ดอกกละ (บาท)	บรรจุ	ขนาด Dia. (mm)	F.L. (mm)	O.A.L. (mm)	ราคา ดอกกละ (บาท)	บรรจุ
0.2	3	19		10	1.5	23	48		10	2.8	39	67		10	4.5	50	86		10
0.25	3.5	20		10	1.55	25	50		10	2.85	39	67		10	4.6	50	86		10
0.3	3.5	20		10	1.6	25	50		10	2.9	42	71		10	4.7	59	89		10
0.35	5.5	24		10	1.65	25	50		10	2.95	42	71		10	4.75	59	89		10
0.4	5.5	24		10	1.7	25	50		10	3.0	42	71		10	4.8	59	89		10
0.45	7.5	27		10	1.75	28	52		10	3.05	42	71		10	4.9	62	92		10
0.5	7.5	27		10	1.8	28	52		10	3.1	42	71		10	4.95	62	92		10
0.55	8.5	30		10	1.85	28	52		10	3.15	42	71		10	5.0	62	92		10
0.6	8.5	30		10	1.9	28	52		10	3.2	42	71		10	5.1	62	92		10
0.65	10	32		10	1.95	29	55		10	3.25	42	71		10	5.2	64	95		10
0.7	10	32		10	2.0	29	55		10	3.3	45	73		10	5.25	64	95		10
0.75	11	34		10	2.05	29	55		10	3.35	45	73		10	5.3	64	95		10
0.8	11	34		10	2.1	29	55		10	3.4	45	73		10	5.4	64	95		10
0.85	13	36		10	2.15	29	55		10	3.45	45	73		10	5.5	64	95		10
0.9	13	36		10	2.2	33	58		10	3.5	45	73		10	5.6	67	98		10
0.95	18	40		10	2.25	33	58		10	3.6	48	76		10	5.7	67	98		10
1.0	18	40		10	2.3	33	58		10	3.7	48	76		10	5.75	67	98		10
1.05	20	42		10	2.35	33	58		10	3.75	48	76		10	5.8	67	98		10
1.1	20	42		10	2.4	35	61		10	3.8	48	76		10	5.9	67	98		10
1.15	20	42		10	2.45	35	61		10	3.9	51	79		10	6.0	70	102		10
1.2	20	42		10	2.5	35	64		10	4.0	54	79		10	6.1	70	102		10
1.25	22	45		10	2.55	37	64		10	4.1	54	79		10	6.2	70	102		10
1.3	22	45		10	2.6	37	64		10	4.2	54	79		10	6.25	70	102		10
1.35	23	48		10	2.65	37	64		10	4.25	54	79		10	6.3	70	102		10
1.4	23	48		10	2.7	37	64		10	4.3	54	79		10	6.4	73	105		10
1.45	23	48		10	2.75	39	67		10	4.4	56	86		10	6.5	73	105		10



ดอกสว่านไฮสปีด เจาะเหล็ก ก้านตรง มาตรฐาน JIS
 Straight Shank Drill (METRIC)

LIST 500

VAN NACHI SD Dia. / WW Code NAX500_XXXX



• General purpose, applicable for a wide range of materials such as mild steels, alloy steels, cast irons and so on.



LIST 500

ขนาด Dia. (mm)	F.L. (mm)	O.A.L. (mm)	ราคา ดอกกละ (บาท)	บรรจุ	ขนาด Dia. (mm)	F.L. (mm)	O.A.L. (mm)	ราคา ดอกกละ (บาท)	บรรจุ	ขนาด Dia. (mm)	F.L. (mm)	O.A.L. (mm)	ราคา ดอกกละ (บาท)	บรรจุ	ขนาด Dia. (mm)	F.L. (mm)	O.A.L. (mm)	ราคา ดอกกละ (บาท)	บรรจุ
6.6	73	105		10	8.75	89	124		5	10.0	103	140		5	13.1	122	168		2
6.7	73	105		10	8.8	89	124		5	11.0	103	140		5	13.2	122	168		2
6.75	73	105		10	8.9	89	124		5	11.1	103	140		5	13.3	122	168		2
6.8	73	105		10	9.0	89	124		5	11.2	106	143		5	13.4	122	168		2
6.9	73	105		10	9.1	89	124		5	11.25	106	143		5	13.5	122	168		2
7.0	73	105		10	9.2	93	127		5	11.3	106	143		5	13.6	122	168		2
7.1	75	108		10	9.25	93	127		5	11.4	106	143		5	13.7	122	168		2
7.2	75	108		10	9.3	93	127		5	11.5	106	143		5	13.8	122	168		2
7.25	75	108		10	9.4	93	127		5	11.6	109	145		5	13.9	122	168		2
7.3	75	108		10	9.5	93	127		5	11.7	109	145		5	14.0	122	168		2
7.4	78	111		10	9.6	95	130		5	11.75	109	145		5	14.1	122	168		2
7.5	78	111		10	9.7	95	130		5	11.8	109	145		5	14.2	122	168		2
7.6	78	111		10	9.75	95	130		5	11.9	109	145		5	14.3	122	168		2
7.7	81	114		10	9.8	95	130		5	12.0	111	149		5	14.4	122	168		2
7.75	81	114		10	9.9	95	130		5	12.1	111	149		5	14.5	122	168		2
7.8	81	114		10	10.0	95	130		5	12.2	111	149		5	14.6	122	168		2
7.9	81	114		10	10.1	98	133		5	12.25	111	149		5	14.7	122	168		2
8.0	81	114		10	10.2	98	133		5	12.3	111	149		5	14.8	122	168		2
8.1	84	117		5	10.25	98	133		5	12.4	114	152		5	14.9	122	168		2
8.2	84	117		5	10.3	98	133		5	12.5	114	152		5	15.0	132	181		2
8.25	84	117		5	10.4	98	133		5	12.6	114	152		5	15.5	132	181		2
8.3	84	117		5	10.5	100	137		5	12.7	114	152		5	16.0	132	181		2
8.4	87	121		5	106	100	137		5	12.75	114	152		5	16.5	132	181		2
8.5	87	121		5	10.7	100	137		5	12.8	114	152		5	17.0	143	194		2
8.6	87	121		5	10.75	103	140		5	12.9	114	152		5	17.5	143	194		2
8.7	87	121		5	10.8	103	140		5	13.0	114	152		5					



ดอกสว่านพิเศษ เจาะเหล็ก ก้านตรง ยาวพิเศษ
 Straight Shank Long Drill

LIST 550

VAN NACHI SD Dia. x O.A.L. / WW Code NA0550_XXXX



•Designed for drilling deep holes or wherever the location of the hole is such as to require the additional overall and flute length of this type.



LIST 550

ขนาด Dia. (mm)	ความยาวรวม O.A.L.													
	75 mm		100 mm		150 mm		200 mm		250 mm		300 mm		400 mm	
	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา
1.0	35		40											
1.1	35		40											
1.2	35		40											
1.3	35		40											
1.4	35		40											
1.5	35		40		60									
1.6	35		40											
1.7	35		40											
1.8	35		40											
1.9	35		40											
2.0			40		60									
2.1			40		60									
2.2			40		60									
2.3			40		60									
2.4			40		60									
2.5			50		60									
2.6			50		75		100							
2.7			50		75		100							
2.8			50		75		100							
2.9			50		75		100							
3.0			50		75		100							
3.1					75		100							
3.2					75		100							
3.3					75		100							
3.4					75		100							
3.5					75		100		120					
3.6					75		100		120		120			
3.7					75		100		120		120			
3.8					75		100		120		120			
3.9					75		100		120		120			
4.0					75		100		120		120			
4.1					75		100		120		120			
4.2					75		100		120		120			
4.3					75		100		120		120			
4.4					75		100		120		120			
4.5					75		100		120		120			
4.6					75		100		120		130		150	
4.7					75		100		120		130		150	
4.8					75		100		120		130		150	
4.9					75		100		120		130		150	



ดอกสว่านพิเศษ เจาะเหล็ก ก้านตรง ยาวพิเศษ
 Straight Shank Long Drill

LIST 550

VAN NACHI SD Dia. x O.A.L. / WW Code NA0550_XXXX



•Designed for drilling deep holes or wherever the location of the hole is such as to require the additional overall and flute length of this type.



LIST 550

ขนาด Dia. (mm)	ความยาวรวม O.A.L.													
	150 mm		200mm		250 mm		300 mm		400 mm		500 mm		600 mm	
	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา
5.0	75		100		120		130		150					
5.1	100		100		120		130							
5.2	100		100		120		130							
5.3	100		100		120		130							
5.4	100		100		120		130							
5.5	100		100		120		130		150		230			
5.6	100		100		120		150		180		180			
5.7	100		100		120		150							
5.8	100		100		120		150							
5.9	100		100		120		150							
6.0	100		100		120		150		180		180		200	
6.1	100		100		120		150							
6.2	100		100		120		150							
6.3	100		100		120		150							
6.4	100		100		120		150							
6.5			100		120		150		200		200		200	
6.6			100		120		150							
6.7			100		120		150							
6.8			100		120		150							
6.9			100		120		150							
7.0			100		120		150		200		200		200	
7.1			100		120		150							
7.2			100		120		150							
7.3			100		120		150							
7.4			100		120		150							
7.5			100		120		150		200		200		200	
7.6			100		120		150							
7.7			100		120		150							
7.8			100		120		150							
7.9			100		120		150							
8.0			100		120		150		200		200		200	
8.1			100		120		150							
8.2			100		120		150							
8.3			100		120		150							
8.4			100		120		150							
8.5			100		120		150		200		200		200	
8.6			100		120		150							
8.7			100		120		150							
8.8			100		120		150							
8.9			100		120		150							
9.0			100		120		150		200		200		200	



ดอกสว่านพิเศษ เจาะเหล็ก ก้านตรง ยาวพิเศษ
 Straight Shank Long Drill

LIST 550

VAN NACHI SD Dia. x O.A.L. / WW Code NA0550_XXXX



•Designed for drilling deep holes or wherever the location of the hole is such as to require the additional overall and flute length of this type.



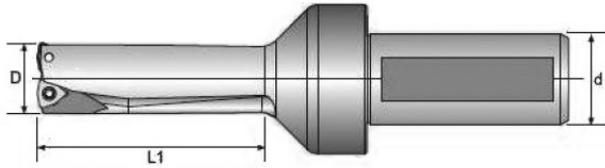
LIST 550

ขนาด Dia. (mm)	ความยาวรวม O.A.L.													
	150 mm		200mm		250 mm		300 mm		400 mm		500 mm		600 mm	
	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา	F.L.	ราคา
9.1			100		120		150							
9.2			100		120		150							
9.3			100		120		150							
9.4			100		120		150							
9.5			100		120		150		200		200		200	
9.6			100		120		150							
9.7			100		120		150							
9.8			100		120		150							
9.9			100		120		150							
10.0			100		120		150		200		250		300	
10.1			100		120		150							
10.2			100		120		150							
10.3			100		120		150							
10.4			100		120		150							
10.5			125		120		150		200		250		300	
10.6					120		150							
10.7					120		150							
10.8					120		150							
10.9					120		150							
11.0					120		150		200		250		300	
11.1					120		150							
11.2					120		150							
11.3					120		150							
11.4					120		150							
11.5					120		150		200		250		300	
11.6					120		150							
11.7					120		150							
11.8					120		150							
11.9					120		150							
12.0					120		150		200		250		300	
12.1					120		150							
12.2					120		150							
12.3					120		150							
12.4					120		150							
12.5					120		150		200		250		300	
12.6					120		150							
12.7					120		150							
12.8					120		150							
12.9					120		150							
13.0					120		150		200		250		300	



RAPID DRILL

RAPID DRILLS(W)THROW-AWAY INSERT

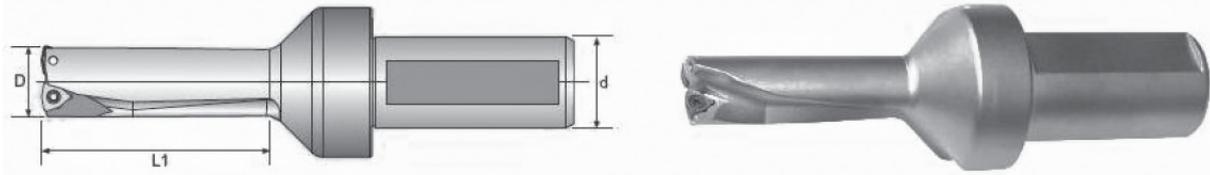


CODE	Dimensions(mm)			Insert	Parts		Price				
	D	L1(0x2)	d								
14WCMX-2D -25	14	28	25	WC□□ 0302□□	CS25	T8	•				
15WCMX-2D -25	15	30					•				
16WCMX-2D -25	16	32					•				
17WCMX-2D -25	17	34					•				
18WCMX-2D -25	18	36					•				
19WCMX-2D -25	19	38					•				
20WCMX-2D -32	20	40	32	WC□□ 0402□□	CS30	T10	•				
21WCMX-2D -32	21	42					•				
22WCMX-2D -32	22	44					•				
23WCMX-2D -32	23	46					•				
24WCMX-2D -32	24	48		WC□□ 0503□□	CS35W	T10	•				
25WCMX-2D -32	25	50					•				
26WCMX-2D -32	26	52					•				
27WCMX-2D -32	27	54					•				
28WCMX-2D -32	28	56					•				
29WCMX-2D -32	29	58					•				
30WCMX-2D -32	30	60	40	WC□□ 06T3□□	CS40	T15	•				
31WCMX-2D -32	31	62					•				
32WCMX-2D -32	32	64					•				
33WCMX-2D -32	33	66					•				
34WCMX-2D -32	34	68					•				
35WCMX-2D -32	35	70					•				
36WCMX-2D -32	36	72					•				
37WCMX-2D -32	37	74					•				
38WCMX-2D -32	38	76					•				
39WCMX-2D -32	39	78					•				
40WCMX-2D -32	40	80	25	WC□□ 0302□□	CS25	T8	•				
41WCMX-2D -32	41	82					•				
42WCMX-2D -32	42	84					•				
43WCMX-2D -40	43	86					32	WC□□ 0402□□	CS30	T10	•
44WCMX-2D -40	44	88									•
45WCMX-2D -40	45	90									•
14WCMX-3D -25	14	42	25	WC□□ 0302□□	CS25	T8	•				
15WCMX-3D -25	15	45					•				
16WCMX-3D -25	16	48					•				
17WCMX-3D -25	17	51					•				
18WCMX-3D -25	18	54					•				
19WCMX-3D -25	19	57					32	WC□□ 0402□□	CS30	T10	•
20WCMX-3D -25	20	60	•								
21WCMX-3D -32	21	63	•								
22WCMX-3D -32	22	66	•								
23WCMX-3D -32	23	69	•								
24WCMX-3D -32	24	72	WC□□ 0503□□	CS30	T10	•					
25WCMX-3D -32	25	75				•					
26WCMX-3D -32	26	78				•					
27WCMX-3D -32	27	81				•					
28WCMX-3D -32	28	84				•					
29WCMX-3D -32	29	87				•					
30WCMX-3D -32	30	90	•								



RAPID DRILL

RAPID DRILLS(W)THROW-AWAY INSERT



CODE	Dimensions(mm)			Insert	Parts		Price				
	D	L1(0x2)	d								
31WCMX-3D -32	31	93	32	WC□□ 06T3□□	CS35W	T10	•				
32WCMX-3D -32	32	96					•				
33WCMX-3D -32	33	99					•				
34WCMX-3D -32	34	102					•				
35WCMX-3D -32	35	105					•				
36WCMX-3D -32	36	108					•				
37WCMX-3D -32	37	111					•				
38WCMX-3D -32	38	114					•				
39WCMX-3D -32	39	117					•				
40WCMX-3D -32	40	120					•				
41WCMX-3D -32	41	123	40	WC□□ 0804□□	CS40	T15	•				
42WCMX-3D -32	42	126					•				
43WCMX-3D -40	43	129					•				
44WCMX-3D -40	44	132					•				
45WCMX-3D -40	45	135					•				
14WCMX-4D -25	14	56	25	WC□□ 0302□□	CS25	T8	•				
15WCMX-4D -25	15	60					•				
16WCMX-4D -25	16	64					•				
17WCMX-4D -25	17	68					•				
18WCMX-4D -25	18	72					•				
19WCMX-4D -25	19	76					•				
20WCMX-4D -32	20	80					32	WC□□ 0402□□	CS30	T10	•
21WCMX-4D -32	21	84									•
22WCMX-4D -32	22	88									•
23WCMX-4D -32	23	92									•
24WCMX-4D -32	24	96	•								
25WCMX-4D -32	25	100	•								
26WCMX-4D -32	26	104	WC□□ 0503□□	CS35W	T10	•					
27WCMX-4D -32	27	108				•					
28WCMX-4D -32	28	112				•					
29WCMX-4D -32	29	116				•					
30WCMX-4D -32	30	120				•					
31WCMX-4D -32	31	124				•					
32WCMX-4D -32	32	128				WC□□ 06T3□□	CS40	T15	•		
33WCMX-4D -32	33	132							•		
34WCMX-4D -32	34	136							•		
35WCMX-4D -32	35	140							•		
36WCMX-4D -32	36	144	•								
37WCMX-4D -32	37	148	•								
38WCMX-4D -32	38	152	•								
39WCMX-4D -32	39	156	•								
40WCMX-4D -32	40	160	40	WC□□ 0804□□	CS40				T15	•	
41WCMX-4D -32	41	164								•	
42WCMX-4D -32	42	168				•					
43WCMX-4D -40	43	172				•					
44WCMX-4D -40	44	176				•					
45WCMX-4D -40	45	180	•								



RAPID DRILLS(W)THROW-AWAY INSERT

Recommended cutting condition

Workpiece		P			M	K
		(ss400) (Mild Steel)	(S45C) (Carbon Alloy Steel)	(SCM400) (Alloy Steel)	(SUS304) (Stainless Steel)	(FC250) (Cast Iron)
12 ~ 14.5	V (2D / 3D)	100-150-200	60-100-160	80-120-160	80-100-120	80-120-160
	V (4D)	100-140-200	60-80-120	80-100-120	80-110-140	110-140-160
	f	0.04-0.06-0.10	0.04-0.06-0.10	0.04-0.06-0.10	0.04-0.07-0.10	0.04-0.07-0.10
25 ~ 22.5	V (2D / 3D)	100-150-200	60-100-160	80-120-160	80-100-120	80-120-160
	V (4D)	100-140-200	60-80-120	80-100-120	80-110-140	110-140-160
	f	0.04-0.07-0.07	0.06-0.09-0.12	0.06-0.08-0.10	0.04-0.07-0.10	0.06-0.07-0.10
23 ~ 34	V (2D / 3D)	100-150-200	60-100-160	80-120-160	80-100-120	80-120-160
	V (4D)	100-140-200	60-80-120	80-100-120	80-110-140	110-140-160
	f	0.04-0.08-0.10	0.08-0.12-0.14	0.06-0.09-0.12	0.04-0.08-0.10	0.04-0.10-0.14
35 ~ 48	V (2D / 3D)	100-150-200	60-100-160	80-120-160	80-100-120	80-120-160
	V (4D)	100-140-200	60-80-120	80-100-120	80-110-140	110-140-160
	f	0.04-0.10-0.12	0.08-0.15-0.18	0.06-0.10-0.14	0.04-0.10-0.12	0.06-0.10-0.14
49 ~ 59	V (2D / 3D)	100-150-200	60-100-160	80-120-160	80-100-120	80-120-160
	V (4D)	100-140-200	60-80-120	80-100-120	80-110-140	110-140-160
	f	0.04-0.08-0.10	0.08-0.12-0.14	0.06-0.09-0.12	0.04-0.08-0.10	0.06-0.10-0.14

- Use the High Speed Drill the best to drain water from the high pressure center to extending insert life, and good for removing the metal chips.
- Using CNC Lathe the cutting center point with spindle center of Machine best to be parallel
- If you need to expand hole when using CNC Lathe, the outer insert must parallel with the remove angle of cutter tower.

CODE										R	Fig	Insert
	ACP100	ACP200	ACP300	ACK200	ACK300	ACZ310	ACZ330	ACZ350	H1			
WCMX030208FN						•	•			0.4	1	
WCMX040208FN						•	•			0.8	1	
WCMX050308FN						•	•			0.4	1	
WCMX06T308FN						•	•			0.8	1	
WCMX080412FN						•	•			0.4	1	

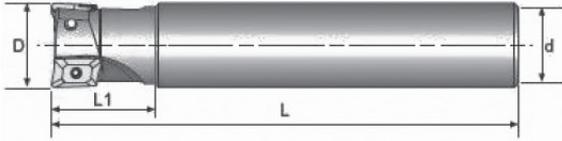


END MILL

E-HIGH SPEED SHOULDER MILL

JAPANESE TECHNOLOGICAL COOPERATION

NEW

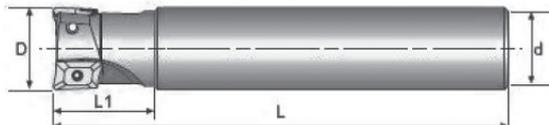


OIL

EWEX 20

CODE	Dimensions(mm)					Insert	Parts			Price
	D	d	L	L1	INO					
EWEX2014E-O	14	16	80	25	1	AX□□ 1235□□	CS30	T-10	●	
EWEX2016E-O	16	16	100	25	2				●	
EWEX2018E-O	18	16	100	25	2				●	
EWEX2020E-O	20	20	110	30	3				●	
EWEX2022E-O	22	20	110	30	3				●	
EWEX2025E-O	25	25	120	35	4				●	
EWEX2028E-O	28	25	120	35	4				●	
EWEX2030E-O	30	25	120	35	4				●	
EWEX2032E-O	32	32	130	40	5				●	
EWEX2040E-O	40	32	150	30	6				●	
EWEX2050E-O	50	32	150	30	7				●	
EWEX2063E-O	63	32	150	30	8				●	
EWEX2014EL-O	14	16	120	25	1				●	
EWEX2016EL-O	16	16	145	25	2				●	
EWEX2018EL-O	18	16	145	25	2				●	
EWEX2020EL-O	20	20	150	40	2				●	
EWEX2022EL-O	22	20	150	30	2				●	
EWEX2025EL-O	25	25	170	50	2				●	
EWEX2028EL-O	28	25	170	30	2				●	
EWEX2030EL-O	30	25	170	30	2				●	
EWEX2032EL-O	32	32	180	60	2	●				
EWEX2040EL-O	40	32	180	30	2	●				

EWEX 20



CODE	Dimensions(mm)					Insert	Parts			Price
	D	d	L	L1	INO					
EWEX2014E	14	16	80	25	1	AX□□ 1235□□	CS30	T-10	●	
EWEX2016E	16	16	100	25	2				●	
EWEX2018E	18	16	100	25	2				●	
EWEX2020E	20	20	110	30	3				●	
EWEX2022E	22	20	110	30	3				●	
EWEX2025E	25	25	120	35	4				●	
EWEX2028E	28	25	120	35	4				●	
EWEX2030E	30	25	120	35	4				●	
EWEX2032E	32	32	130	40	5				●	
EWEX2040E	40	32	150	30	6				●	
EWEX2050E	50	32	150	30	7				●	
EWEX2063E	63	32	150	30	8				●	
EWEX2014EL	14	16	120	25	1				●	
EWEX2016EL	16	16	145	25	2				●	
EWEX2018EL	18	16	145	25	2				●	
EWEX2020EL	20	20	150	40	2				●	
EWEX2022EL	22	20	150	30	2				●	
EWEX2025EL	25	25	170	50	2				●	
EWEX2028EL	28	25	170	30	2				●	
EWEX2030EL	30	25	170	30	2				●	
EWEX2032EL	32	32	180	60	2	●				
EWEX2040EL	40	32	180	30	2	●				

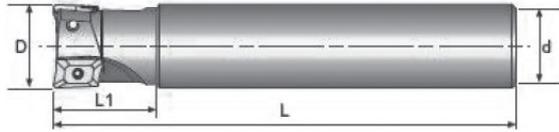


END MILL

E-HIGH SPEED SHOULDER MILL

JAPANESE TECHNOLOGICAL COOPERATION

NEW

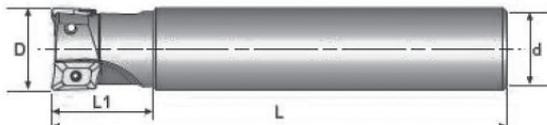


OIL

EWEX 30

CODE	42Dimensions(mm)					Insert	Parts		Price
	D	d	L	L1	INO				
EWEX3025E-20-O	25	20	120	35	2	AX□□ 1705□□	CS40	T-15	●
EWEX3025E-O	25	25	120	35	2				●
EWEX3028E-O	28	25	120	35	2				●
EWEX3030E-O	30	25	130	40	3				●
EWEX3032E-25-O	32	25	130	40	3				●
EWEX3032E-O	32	32	130	40	3				●
EWEX3035E-O	35	32	130	40	3				●
EWEX3040E-O	40	32	170	50	4				●
EWEX3050E-O	50	32	170	50	5				●
EWEX3063E-O	63	32	170	50	6				●
EWEX3050ES-O	50	32	135	25	5				●
EWEX3050ES-42-O	50	42	135	25	5				●
EWEX3063ES-O	63	32	135	25	6				●
EWEX3063ES-42-O	63	42	135	25	6				●
EWEX3025EL-O	25	25	170	50	5				●
EWEX3028EL-O	28	25	170	50	5				●
EWEX3030EL-O	30	25	180	60	5				●
EWEX3032EL-O	32	32	180	60	5				●
EWEX3035EL-O	35	32	180	80	5				●
EWEX3040EL-O	40	32	220	80	5				●
EWEX3040E-C-O	40	32	170	50	3				●
EWEX3050E-C-O	50	32	170	50	3				●
EWEX3063E-C-O	63	32	170	50	4				●
EWEX3050ES-C-O	50	32	135	25	3				●
EWEX3050ES-C-42-O	50	42	135	25	3				●
EWEX3063ES-C-O	63	32	135	25	4				●
EWEX3063ES-C-42-O	63	42	135	25	4				●

EWEX 30



CODE	42Dimensions(mm)					Insert	Parts		Price
	D	d	L	L1	INO				
EWEX3025E-20-O	25	20	120	35	2	AX□□ 1705□□	CS40	T-15	●
EWEX3025E-O	25	25	120	35	2				●
EWEX3028E-O	28	25	120	35	2				●
EWEX3030E-O	30	25	130	40	3				●
EWEX3032E-25-O	32	25	130	40	3				●
EWEX3032E-O	32	32	130	40	3				●
EWEX3035E-O	35	32	130	40	3				●
EWEX3040E-O	40	32	170	50	4				●
EWEX3050E-O	50	32	170	50	5				●
EWEX3063E-O	63	32	170	50	6				●
EWEX3050ES-O	50	32	135	25	5				●
EWEX3050ES-42-O	50	42	135	25	5				●
EWEX3063ES-O	63	32	135	25	6				●
EWEX3063ES-42-O	63	42	135	25	6				●
EWEX3025EL-O	25	25	170	50	5				●
EWEX3028EL-O	28	25	170	50	5				●
EWEX3030EL-O	30	25	180	60	5				●
EWEX3032EL-O	32	32	180	60	5				●
EWEX3035EL-O	35	32	180	80	5				●
EWEX3040EL-O	40	32	220	80	5				●
EWEX3040E-C-O	40	32	170	50	3				●
EWEX3050E-C-O	50	32	170	50	3				●
EWEX3063E-C-O	63	32	170	50	4				●
EWEX3050ES-C-O	50	32	135	25	3				●
EWEX3050ES-C-42-O	50	42	135	25	3				●
EWEX3063ES-C-O	63	32	135	25	4				●
EWEX3063ES-C-42-O	63	42	135	25	4				●



END MILL

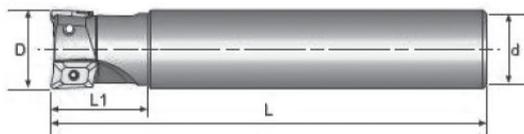
Recommended cutting condition

Workpiece		P	M	K	N
		(ss400) (Mild Steel)	(SUS304) (Stainless Steel)	(FC250) (Cast Iron)	(ADC12)
10 ~ 22	V	80-100-120	70-100-120	80-100-120	200-300-500
	f	0.08-0.10-0.15	0.08-0.10-0.15	0.08-0.10-0.15	0.08-0.10-0.15
25 ~ 40	V	100-150-180	80-140-160	100-150-180	200-500-1000
	f	0.10-0.12-0.20	0.10-0.12-0.20	0.10-0.12-0.20	0.10-0.12-0.20
50 ~ 63	V	100-150-180	80-140-160	100-150-180	200-500-1000
	f	0.10-0.12-0.20	0.10-0.12-0.20	0.10-0.12-0.20	0.10-0.12-0.20

Recommended cutting condition

CODE	P	$\frac{P}{M}$	$\frac{P}{M}$	K	K	$\frac{K}{M}$	P	$\frac{P}{M}$	$\frac{K}{N}$	R	Fig	Insert
	ACP100	ACP200	ACP300	ACK200	ACK300	ACZ310	ACZ330	ACZ350	H1			
AXMT123504PEER-G		•	•	•						0.4	1	 
AXMT123508PEER-G		•	•	•						0.8	1	
AXMT123504PEER-H		•	•	•						0.4	1	
AXMT123508PEER-H		•	•	•						0.8	1	
AXET123504PEFR-S									•	0.4		
AXMT170504PEER-G		•	•	•						0.4	2	
AXMT170508PEER-G		•	•	•						0.8	2	
AXMT170504PEER-H		•	•	•						0.8	2	
AXET170504PEER-S									•	0.4		

E-HIGH SPEED SHOULDER MILL



E90AP00-D00

CODE	42Dimensions(mm)					Insert	Parts		Price
	D	d	L	L1	INO				
E90AP10-D12-80	12	12	80	25	1	AX□□ 1035□□	CS25	T-8	•
E90AP10-D12-100	12	12	100	25	1				•
E90AP10-D14-80	14	16	90	25	1				•
E90AP10-D16-90	16	16	90	25	2				•
E90AP10-D16-150	16	16	150	25	2				•
E90AP10-D17-150	17	16	150	25	2				•
E90AP10-D18-90	18	16	90	25	2				•
E90AP10-D20-110	20	20	110	30	3				•
E90AP10-D20-150	20	20	150	30	3				•
E90AP10-D21-150	21	20	150	30	3				•
E90AP10-D25-120	25	25	120	35	4				•
E90AP10-D25-150	25	25	150	35	4				•
E90AP10-D25-200	25	25	200	35	4				•
E90AP10-D26-150	26	25	150	35	3				•
E90AP10-D35-150	35	32	150	10	5				•
E90AP16-D25-150	25	25	150	35	2				AX□□ 1605□□
E90AP16-D32-150	32	32	150	35	3	•			
E90AP16-D40-150	40	32	150	40	4	•			
E90AP16-D50-150	50	32	150	40	5	•			



END MILL

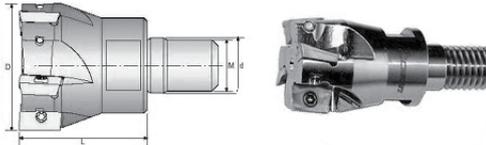
Recommended cutting condition

Workpiece		P	M	K	N
		(ss400) (Mild Steel)	(SUS304) (Stainless Steel)	(FC250) (Cast Iron)	(ADC12)
10 ~ 22	V	80-100-120	70-100-120	80-100-120	200-300-500
	f	0.08-0.10-0.15	0.08-0.10-0.15	0.08-0.10-0.15	0.08-0.10-0.15
25 ~ 40	V	100-150-180	80-140-160	100-150-180	200-500-1000
	f	0.10-0.12-0.20	0.10-0.12-0.20	0.10-0.12-0.20	0.10-0.12-0.20
50 ~ 63	V	100-150-180	80-140-160	100-150-180	200-500-1000
	f	0.10-0.12-0.20	0.10-0.12-0.20	0.10-0.12-0.20	0.10-0.12-0.20

Recommended cutting condition

CODE	P	$\frac{P}{M}$	$\frac{P}{M}$	K	K	$\frac{K}{M}$	P	$\frac{P}{M}$	$\frac{K}{N}$	R	Fig	Insert
	ACP100	ACP200	ACP300	ACK200	ACK300	ACZ310	ACZ330	ACZ350	H1			
APMT103504PDER-H						•	•			0.4	1	
APMT103508PDER-H						•	•			0.8	1	
APET103504PDER-S									•	0.4	3	
APMT160508PDER-H						•	•			0.8	2	
APET160504PDER-S									•	0.4	3	

ED-HIGH SPEED SHOULDER MILL



ED90AP00-D00

CODE	42Dimensions(mm)					Insert	Parts		Price
	D	d	L	L1	INO				
EDAX1216 Z2	16	8	30	8	2	AX□□ 1235□□	CS30	T-10	•
EDAX1217 Z2	17	8.5	30	8	2				•
EDAX1220 Z3	20	10	30	10	3				•
EDAX1221 Z3	21	10.5	30	10	3				•
EDAX1225 Z4	25	12	35	12	4				•
EDAX1226 Z4	26	12.5	35	12	4				•
EDAX1233 Z5	33	17	35	16	5				•
EDAX1235 Z5	35	17	35	16	5				•
ED90AP10-D17	27	8.5	30	8	2	AX□□ 1035□□	CS25	T-8	•
ED90AP10-D21	21	10.5	30	10	3				•
ED90AP10-D26	26	12.5	35	12	3				•
ED90AP10-D35	35	17	35	16	5				•

Recommended cutting condition

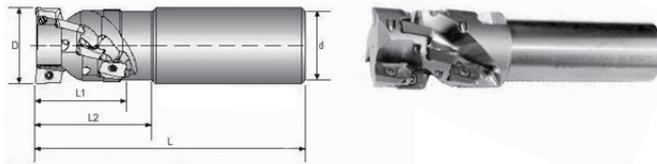
Workpiece		P	M	K	N
		(ss400) (Mild Steel)	(SUS304) (Stainless Steel)	(FC250) (Cast Iron)	(ADC12)
10 ~ 22	V	80-100-120	70-100-120	80-100-120	200-300-500
	f	0.08-0.10-0.15	0.08-0.10-0.15	0.08-0.10-0.15	0.08-0.10-0.15
25 ~ 40	V	100-150-180	80-140-160	100-150-180	200-500-1000
	f	0.10-0.12-0.20	0.10-0.12-0.20	0.10-0.15-0.20	0.10-0.15-0.20

CODE	P	$\frac{P}{M}$	$\frac{P}{M}$	K	K	$\frac{K}{M}$	P	$\frac{P}{M}$	$\frac{K}{N}$	R	Fig	Insert
	ACP 100	ACP 200	ACP 300	ACK 200	ACK 300	ACZ 310	ACZ 330	ACZ 350	H1			
AXMT123504PEER-G						•	•			0.4	1	
AXMT123508PEER-G										0.8	1	
AXMT123504PEER-H										0.4	3	
AXMT123508PEER-H										0.8	2	
AXET123504PEER-S										0.4	3	
APMT123504PEER-H												
APMT123508PEER-H												
APET123504PEER-S												



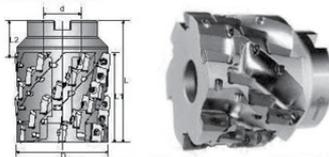
END MILL

EM-ROUGHING MILLING CUTTER



EM90AP00-D00

CODE	Dimensions(mm)						Insert	Parts		Price
	D	d	L	L1	L2	INO				
EM90AP10-D20	20	20	120	25	35	2R6T	AP□□ 1035□□	CS25	T-8	●
EM90AP10-D25	25	25	130	35	45	2R8T				●
EM90AP10-D32	32	32	140	44	55	3R15T				●
EM90AP10-D40	40	32	150	53	65	3R21T				●
EM90AP16-D40	40	42	150	49	65	3R12T	AP□□ 1605□□	CS35	T-15	●
EM90AP16-D50	50	42	165	61	75	3R15T				●
EM90AP16-D50-260	30	50.8	260	167	180	4R56T				●



EM90AP16-D00

CODE	Dimensions(mm)						Insert	Parts		Price
	D	d (Inch)	L	L1	L2	INO				
EM90AP16-D63-75	63	1"	75	63	12	4R20T	AP□□ 1605□□	CS35	T-15	●
EM90AP16-D80-80	80	1 1/4"	80	52	28	6R24T				●
EM90AP16-D80-105	80	1 1/4"	105	75	30	6R36T				●
EM90AP16-D80-150	80	1 1/4"	150	120	30	6R60T				●
EM90AP16-D100-155	100	1 1/2"	155	120	35	7R70T				●

Recommended cutting condition

Workpiece		P	M	K	N
		(ss400) (Mild Steel)	(SUS304) (Stainless Steel)	(FC250) (Cast Iron)	(ADC12)
20 ~ 25	V	50-120-180	50-100-160	50-120-180	200-300-500
	f	0.05-0.15	0.05-0.12	0.05-0.15	0.10-0.15-0.20
32 ~ 50	V	100-150-180	50-100-160	50-120-180	200-300-50
	f	0.05-0.15	0.05-0.12	0.05-0.20	0.10-0.15-0.20
40 ~ 80	V	100-150-180	50-100-160	50-120-180	200-300-500
	f	0.05-0.22	0.05-0.15	0.05-0.25	0.10-0.15-0.20

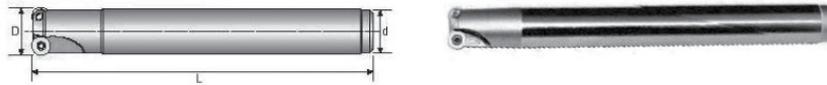
Recommended cutting condition

CODE	P			K	K		P			R	Fig	Insert
	ACP100	ACP200	ACP300	ACK200	ACK300	ACZ310	ACZ330	ACZ350	H1			
APMT103504PDER-H		●	●	●		●	●			0.4	1	1
APMT103508PDER-H						●	●			0.8	1	
APET103504PDER-S									●	0.4	3	
APMT160508PDER-H						●	●			0.8	2	3
APET160508PDER-S									●	0.4	3	



END MILL

RD-ROUND INSERT END MILLS



RDS0R0

CODE	Dimensions(mm)			Teeth	Insert	Parts		Price
	D	d	L					
RDS2.5R10-120	10	10	120	2	RD□□0501	CS22	T-7	•
RDS3.5R12-130	12	12	130	2	RD□□0702	CS25	T-8	•
RDS3.5R16-150	16	16	150	2	RD□□08T2			•
RDS4R16-150	16	16	150	2				•
RDS4R20-150	20	20	150	3				•
RDS4R20-200	20	20	200	3				•



RPORO

CODE	Dimensions(mm)			Teeth	Insert	Parts		Price
	D	d	L					
RP5R20-150	20	20	150	2	RP□□ 1003□□	CS35	T-15	•
RP5R25-150	25	25	150	2				•
RP5R25-200	25	25	200	2				•
RP5R30-150	30	25	150	3				•
RP5R30-200	30	25	200	3				•
RP5R35-150	35	32	150	3				•
RP5R35-200	35	32	200	3				•
RP5R40-150	40	32	150	3				•
RP5R40-200	40	32	200	3				•

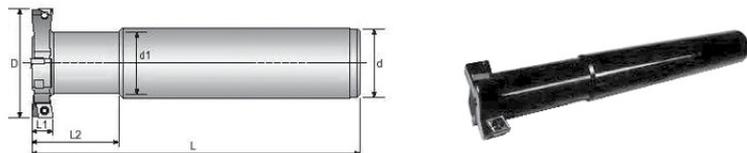
RP-ROUND INSERT END MILLS



RP6R00-C00

CODE	Dimensions(mm)			Teeth	Insert	Parts		Price
	D	d	L					
RP6R30-C25-150	30	25	150	2	RP□□ 1204□□	CS35	T-15	•
30-C25-200	30	25	200	2				•
35-C32-150	35	32	150	3				•
35-C32-200	35	32	200					•
35-C32-250	35	32	250					•
35-C32-300	35	32	300					•
40-C32-150	40	32	150	3				•
40-C32-200	40	32	200					•
40-C32-250	40	32	250					•
40-C32-300	40	32	300					•
50-C32-150	50	32	150	4				•

T-SLOT END MILLS



TS00-C00

CODE	Dimensions(mm)						Teeth	Insert	Parts		Price
	D	d	d1	L	L1	L2					
TS20-C16-10	20	16	12	120	10	29	4T	CC□□ 0602□□	CS25	T-8	•
TS25-C20-10	25	20	13	120	10	34					•
TS30-C20-10	30	20	18	150	10	34					•
TS35-C20-10	35	20	23	150	10	42					•
TS40-C25-10	40	25	28	150	10	52					•
TS40-C32-10	40	32	28	150	10	52					•



END MILL

SAE-SHOULDER END MILLS



SAE00

CODE	Dimensions(mm)			Teeth	Insert	Parts		Price
	D	d	L					
SAE-20	20	20	110	2	TP□□1103	TP-W3/16	TP-WH2.5	●
SAE-25	25	20	110					●
SAE-30	30	20	130					●
SAE-35	35	20	130					●
SAE-40	40	20	130	3	TP□□1603	TP-W1/4	TP-WH4	●
SAE-45	45	20	150					●
SAE-50	50	32	150					●
SAE-63	63	32	150	3	TP□□2204	TP-W5/16	TP-WH5	●

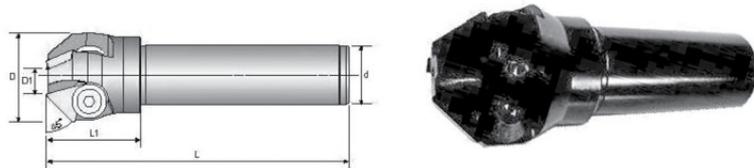
TC-END MILLS



TC 45°

CODE	Dimensions(mm)			Teeth	Insert	Parts		Price
	D	d	L					
TC12	25	12	110	30~250	TC□□16T3	CS40	T-15	●
TC40	40	12	100	200~350				●

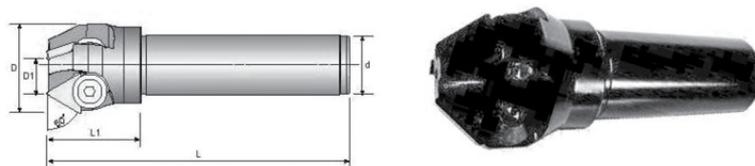
TM-END MILLS



TM 45°

CODE	Dimensions(mm)					Teeth	Insert	Parts		Price
	D	D1	d	L	L1					
TM5-20-45	21	5	20	120	30	1	TP□□1603	TP-W1/4	TP-WH4	●
TM10-31-45	31	15	20	120	30	2				●
TM20-50-45	48.8	25	32	160	40	3	TP□□2204	TP-W5/16	TP-WH5	●
TM35-63-45	63.8	40	32	160	40	3				●

TM-END MILLS



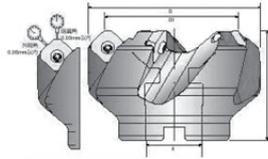
TM 60°

CODE	Dimensions(mm)					Teeth	Insert	Parts		Price
	D	D1	d	L	L1					
TM5-20-60	21	7	20	120	30	1	TP□□1603	TP-W1/4	TP-WH4	●
TM10-31-60	31	10	20	120	30	2				●
TM20-50-60	48.8	20	32	160	40	3	TP□□2204	TP-W5/16	TP-WH5	●
TM35-63-60	63.8	35	32	160	40	3				●



END MILL

SE-HIGHT SPEED MILLING CUTTER



S45SE00 SHELL

CODE	Dimensions(mm)						Insert	Parts		Stock	
	D	D1	d	d	H	INO				R	L
50A04R-S45SE12A	64	50	-	22	40	4	SE□□ 1204□□	CS45	T-15	●	
63A05R-S45SE12A	77	63	-	25.4	40	5				●	
80B06R/L-S45SE12A	93	80	-	25.4	50	6				●	●
100B06R/L-S45SE12A	114	100	-	31.75	50	6				●	●
125B07R/L-S45SE12A	139	125	-	38.1	63	8				●	●
160B10R-S45SE12A	120	160	-	50.8	63	10				●	
50A04R-S45SE13A	64	50	-	22	40	4	SE□□ 13T3□□	CS35	T-15	●	
63A05R-S45SE13A	77	63	-	25.4	40	5				●	
80B06R/L-S45SE13A	93	80	-	25.4	50	6				●	●
100B06R/L-S45SE13A	114	100	-	31.75	50	6				●	●
125B07R/L-S45SE13A	139	125	-	38.1	63	8				●	●
160B10R-S45SE13A	120	160	-	50.8	63	10				●	
50A04R-S45SE13B	64	50	22	-	40	4	SE□□ 13T3□□	CS35	T-15	●	
63A05R-S45SE13B	77	63	22	-	40	5				●	
80B06R/L-S45SE13B	93	80	27	-	50	6				●	●
100B06R/L-S45SE13B	114	100	32	-	50	6				●	●
125B07R/L-S45SE13B	139	125	40	-	63	8				●	●
160B10R-S45SE13B	120	160	40	-	63	10				●	

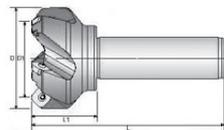
Recommended cutting condition

Workpiece		P	M	K	N
		(ss400) (Mild Steel)	(SUS304) (Stainless Steel)	(FC250) (Cast Iron)	(ADC12)
Diameter	V	50-120-250	160-200-250	100-200-250	300-500-1000
	f	0.01-0.30	0.15-0.30	0.10-0.30	0.15-0.20

SE-HIGHT SPEED END MILLS

Recommended cutting condition

CODE	P			K	K		P			R	Fig	Insert
	ACP100	ACP200	ACP300	ACK200	ACK300	ACZ310	ACZ330	ACZ350	H1			
SEHW1204AFTN		●		●		●	●			0.4	1	1 2
SEHT120408-AK									●	0.8	1	
SEMT13T3AGSN-G						●	●			0.4	3	
SEMT13T3AGSN-H						●	●			0.8	2	
SEET13T3AGFN-L									●	0.4	3	



SE50-COO

CODE	Dimensions(mm)					Teeth	Insert	Parts		Price
	D	D1	d	L	L1					
SE50-C32-4	62	50	32	120	45	4	SE□□1204	CS45	T-15	●

Recommended cutting condition

Workpiece		P	M	K	N
		(ss400) (Mild Steel)	(SUS304) (Stainless Steel)	(FC250) (Cast Iron)	(ADC12)
Diameter	V	150-200-250	160-200-250	100-200-250	300-500-100
	f	0.01-0.20	0.15-0.20	0.15-0.20	0.15-0.20

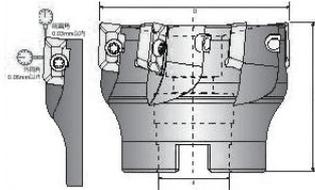


END MILL

Recommended cutting condition

CODE	P	P/M	P/M	K	K	K/M	P	P/M	K/N	R	Fig	Insert
	ACP100	ACP200	ACP300	ACK200	ACK300	ACZ310	ACZ330	ACZ350	H1			
SEHW1204AFTN						•	•			0.4	1	1
seht120408-AK									•	0.8	1	

EM-ROUGHING MILLING CUTTER



EM90AP00-D00

CODE	Dimensions(mm)			Teeth	Insert	Parts		Price			
	D	H	d								
EWEX2040F	40	40	16	6	AX□□ 1235□□	CS30	T-10	•			
EWEX2050F	50	40	22	7				•			
EWEX2063F	63	40	22	8				•			
EWEX3040F	40	40	16	4				•			
EWEX3050F	50	40	22	5				•			
EWEX3063F	63	40	22	6				•			
EWEX3080R	80	50	25.4	4		AX□□ 1705□□	CS40	T-15	•		
EWEX3100R	100	63	31.75	5					•		
EWEX3125R	125	63	38.1	6					•		
EWEXF3080R	80	50	25.4	7					•		
EWEXF3100R	100	63	31.75	8					•		
EWEXF3125R	125	63	38.1	9					•		
EX90AP16-D50A	50	50	22	4	AP□□ 1605□□				CS35	T-15	•
EX90AP16-63A	63	50	25.4	5							•
EX90AP16-80A	80	50	25.4	6		•					
EX90AP16-100A	100	50	31.75	7		•					
EX90AP16-125A	125	50	38.1	8		•					

Recommended cutting condition

Diameter	Workpiece	P	M	K	N
		(ss400) (Mild Steel)	(SUS304) (Stainless Steel)	(FC250) (Cast Iron)	(ADC12)
50	V	100-150-180	80-140-160	100-150-180	200-300-500
	f	0.10-0.20-0.25	0.10-0.15-0.20	0.10-0.20-0.25	0.10-0.15-0.20

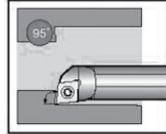
Recommended cutting condition

CODE	P	P/M	P/M	K	K	K/M	P	P/M	K/N	R	Fig	Insert
	ACP100	ACP200	ACP300	ACK200	ACK300	ACZ310	ACZ330	ACZ350	H1			
AXMT123504PEER-G		•	•	•						0.4	1	1
AXMT123508PEER-G		•	•	•						0.8	1	
AXMT123504PEER-H		•	•	•						0.4	1	
AXMT123508PEER-H		•	•	•						0.8	1	
AXET123504PEFR-S									•	0.4		2
AXMT170504PEER-G		•	•	•						0.4	2	
AXMT170508PEER-G		•	•	•						0.8	2	
AXMT170508PEER-H		•	•	•						0.8	2	
AXMT170504PEFR-S									•	0.4		3
APMT160508PDER-H						•	•			0.8	3	
APMT160504PDFR-S									•	0.4	4	



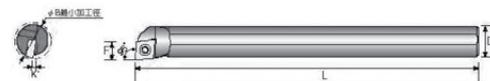
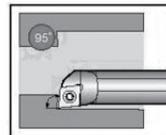
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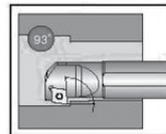
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CODE	Dimensions(mm)					Insert	Parts		Stock	
	D	F	L	B	K°				R	L
S08K-SCLCR/L06-09	8	4	125	9	15°	CC□□ 0602□□	CS25	T-8	•	
S08K-SCLCR/L06-10	8	5.5	125	10	9°				•	•
S10K-SCLCR/L06-12	10	6.5	125	12	7°				•	•
S12M-SCLCR/L06-14	12	7.5	150	14	6°				•	•
S16Q-SCLCR/L06-18	16	9.5	180	18	7°				•	•
S12M-SCLCR/L09-16	12	7.5	150	16	7°	CC□□ 09T3□□	CS35	T-15	•	•
S14M-SCLCR/L09-16	14	8.5	150	16	7°				•	•
S16Q-SCLCR/L09-18	16	9.5	180	18	7°				•	•
S20R-SCLCR/L09-22	20	11.5	200	22	5°				•	•
S25R-SCLCR/L09	25	17	200	32	5°				•	•
S20R-SCLCR/L12-22	20	12	200	25	8°	CC□□ 1204□□	CS15	T-15	•	•
S25R-SCLCR/L12	25	14.5	200	32	8°				•	•
S32R-SCLCR/L12	32	18	250	39	6°				•	•
C0807K-CLCR/L06-08	8	4	125	8	9°				•	
C08K-SCLCR/L06-10	8	5.5	125	10	9°				•	
C10M-SCLCR/L06-12	10	6	150	12	7°	CC□□ 0602□□	CS25	T-8	•	
C12Q-SCLCR/L06-14	12	7	180	14	6°				•	
C16R-SCLCR/L09-18	16	9	200	18	7°				•	
C20S-SCLCR/L09-22	20	11.5	250	22	5°					
C25T-SCLCR/L09	25	17	300	32	5°					



SCLC

CODE	Dimensions(mm)					Insert	Parts		Stock	
	D	F	L	B	K°				R	L
S10K-SCLPR/L08-12	10	6.5	125	12	7°	CP□□ 0802□□	CS30	T-10	•	
S12M-SCLPR/L08-14	12	7.5	150	14	6°				•	
S12M-SCLPR/L09-14	12	8	150	14	6°				•	
S14M-SCLPR/L09-16	14	8.5	150	16	6°				•	
S16Q-SCLPR/L09-18	16	9.5	180	18	4°				•	
S20R-SCLPR/L09-22	20	11.5	200	22	4°	CP□□ 0903□□	CS35	T-15	•	
S25R-SCLPR/L09	25	16	200	32	4°				•	
C10M-SCLPR/L08-12	10	6.5	150	12	7°				•	
C12Q-SCLPR/L08-14	12	7.5	180	14	6°				•	
C12Q-SCLPR/L09-14	12	8	180	14	6°				•	
C16R-SCLPR/L09-18	16	9.5	200	18	4°	CP□□ 0903□□	CS35	T-15	•	
C20S-SCLPR/L09-22	20	11.5	250	22	4°				•	
C25T-SCLPR/L09	14	16	300	32	4°				•	



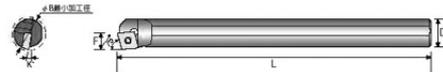
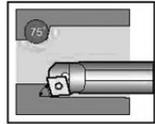
SCLC

CODE	Dimensions(mm)					Insert	Parts		Stock	
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S08K-SCZCR/L06	8	6.5	125	12	13°	CC□□ 0602□□	CS25	T-8	•	
S10K-SCZCR/L06	10	7.5	125	14	12°				•	
S12M-SCZCR/L06	12	8.5	150	16	10°				•	
S16Q-SCZCR/L06	16	11.5	180	21	10°				•	
S20R-SCZCR/L06	20	13.5	200	25	8°				CC□□ 09T3□□	CS35
S25R-SCZCR/L06	25	16	200	32	6°	•				



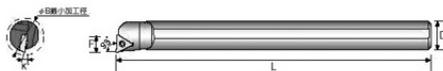
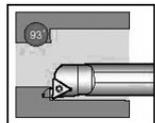
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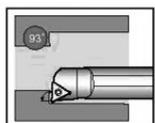
SCKC

CODE	Dimensions(mm)					Insert	Parts		Stock	
	D	F	L	B	K°				R	L
S08K-SCKCR/L06-10	8	5	125	10	15°	CC□□ 0602□□	CS25	T-8	•	•
S10K-SCKCR/L06-12	10	6	125	12	13°				•	•
S12M-SCKCR/L06-14	12	8	150	14	10°				•	•
S16Q-SCKCR/L06-18	16	10	180	18	7°				•	•
S12M-SCKCR/L09-16	12	8	150	16	12°	CC□□ 03T3□□	CS35	T-15	•	•
S16Q-SCKCR/L09-18	16	10	180	18	7°				•	•
S20R-SCKCR/L09-22	20	12	200	22	8°				•	•
S25R-SCKCR/L09	25	14	200	31	8°				•	•



STUC

CODE	Dimensions(mm)					Insert	Parts		Stock	
	D	F	L	B	K°				R	L
S08K-STUCR/L09-10	8	5.5	125	10	12°	TC□□ 0902□□	CS22	T-7	•	•
S10K-STUCR/L09-12	10	6.5	125	12	15°				•	•
S10K-STUCR/L11-12	10	6.5	125	12	15°	TC□□ 1102□□	CS25	T-8	•	•
S12M-STUCR/L11-14	12	7.5	150	14	10°				•	•
S14M-STUCR/L11-16	14	8.5	150	16	8°				•	•
S16Q-STUCR/L11-18	16	9.5	180	18	6°				•	•
S20R-STUCR/L11-22	20	11.5	200	22	3°	TC□□ 16T3□□	CS35	T-15	•	•
S20R-STUCR/L16-22	20	11.5	200	22	8°				•	•
S25R-STUCR/L16	25	17	200	32	6°				•	•
S32R-STUCR/L16	32	17.5	250	39	4°				•	•
C08K-STUCR09-10	8	5.5	123	10	12°	TC□□ 0902□□	CS22	T-7	•	•
C10M-STUCR09-12	10	6.5	150	12	15°				•	•
C10M-STUCR11-12	10	6.5	150	12	15°	TC□□ 1102□□	CS25	T-8	•	•
C12Q-STUCR11-14	12	7.5	180	14	10°				•	•
C16R-STUCR11-18	16	9.5	200	18	6°				•	•
C20S-STUCR11-22	20	11.5	200	22	3°				•	•



STUC

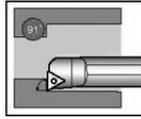
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S08K-STUBR06-08	8	4	125	8	12°	TB□□ 0601□□	CS22	T-6	•	•
S08K-STUPR/L08-10	8	5.5	125	10	10°	TP□□ 0802□□	CS22	T-7	•	•
S08K-STUPR/L09-10	8	5.5	125	10	10°	TP□□ 0902□□	CS25	T-8	•	•
S10K-STUPR/L09-12	10	6.5	125	12	8°				•	•
S12M-STUPR/L09-14	12	7.5	150	14	5°				•	•
S10K-STUPR/L11-12	10	6.5	125	12	8°				TP□□ 1103□□	CS30
S12M-STUPR/L11-14	12	7.5	150	14	7°	•	•			
S14M-STUPR/L11-16	14	8.5	150	16	6°	•	•			
S16Q-STUPR/L11-18	16	9.5	180	18	4°	•	•			
S20R-STUPR/L11-22	20	11.5	200	22	2°	TP□□ 1604□□	CS35	T-15	•	•
S20R-STUPR/L1604-22	20	11.5	200	22	3°				•	•
S25R-STUPR/L1604	25	16	200	32	2°				•	•
S20R-STUPR/L1603-22	20	11.5	200	22	3°				TP□□ 1603□□	CS35
S25R-STUPR/L1603	25	16	200	32	2°	TP□□ 0902□□	CS25	T-8	•	•
C08K-STUPR/L09-10	8	5.5	125	10	10°				•	•
C10M-STUPR09-12	10	6.5	150	12	15°				•	•
C12Q-STUPR09-14	12	7.5	180	14	15°				TP□□ 1103□□	CS30
C10K-STUPR11-12	10	6.5	125	12	15°	•	•			
C12Q-STUPR11-14	12	7.5	180	14	10°	•	•			
C16R-STUPR11-18	16	9.5	200	18	6°	•	•			
C20S-STUPR11-22	20	11.5	250	22	3°	•	•			



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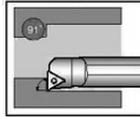
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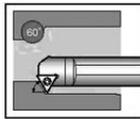
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	D	F	L	B	K°					R	L
S08K-STFCR/L09-10	8	5.5	125	10	12°	TC□□ 0902□□	CS22	T-7	•	•	
S10K-STFCR/L09-12	10	6.5	125	12	15°				•	•	
S12M-STFCR/L09-14	12	7.5	150	14	10°				•	•	
S10K-STFCR/L11-12	10	6.5	125	12	15°	TC□□ 1102□□	CS25	T-8	•	•	
S12M-STFCR/L11-14	12	7.5	150	14	10°				•	•	
S16Q-STFCR/L11-18	16	9.5	180	18	6°				•	•	
S20R-STFCR/L11-22	20	11.5	200	22	3°	TC□□ 16T3□□	CS35	T-15	•	•	
S25R-STFCR/L16	25	16	200	32	2°				•	•	
C08K-STFCR09-10	8	5.5	125	10	12°				•	•	
C10M-STFCR09-12	10	6.5	150	12	15°	TC□□ 0902□□	CS22	T-7	•	•	
C12Q-STFCR09-14	12	7.5	180	14	10°				•	•	
C12Q-STFCR11-14	12	7.5	180	14	10°				•	•	
C16R-STFCR11-18	16	11.5	200	18	6°	TC□□ 0902□□	CS25	T-8	•	•	
C20S-STFCR11-22	20	11.5	250	22	3°				•	•	

STFP



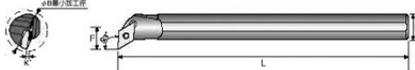
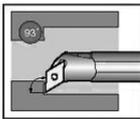
CODE	Dimensions(mm)					Insert	Parts			Stock	
	D	F	L	B	K°					R	L
S08K-STFPR/L11-12	10	6.5	125	12	7°	TP□□ 1103□□	CS30	T-10	•	•	
S12M-STFPR/L11-14	12	7.5	150	14	6°				•	•	
S16Q-STFPR/L11-18	16	9.5	180	18	4°				•	•	
S20R-STFPR/L11-22	20	11.5	200	22	4°				•	•	

STWC



CODE	Dimensions(mm)					Insert	Parts			Stock	
	D	F	L	B	K°					R	L
S08K-STWCR/L09-10	8	6	125	10	15°	TC□□ 0902□□	CS22	T-7	•	•	
S10K-STWCR/L09	10	6.5	150	12	15°				•	•	
S10M-STWCR/L11	10	6.5	150	12	15°				•	•	
S12M-STWCR/L11	12	7.5	150	16	13°	TC□□ 1102□□	CS25	T-8	•	•	
S16Q-STWCR/L11	16	9.5	180	20	10°				•	•	
S20R-STWCR/L11	20	11.5	200	25	7°				•	•	
S25R-STWCR/L16	25	14	200	30	5°	TC□□ 16T3□□	CS35	T-15	•	•	

SDUC

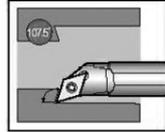


CODE	Dimensions(mm)					Insert	Parts			Stock	
	D	F	L	B	K°					R	L
S10K-SDUCR/L07					10°	DC□□ 0702□□	CS25	T-8	•	•	
S12M-SDUCR/L07					8°				•	•	
S16Q-SDUCR/L07					6°				•	•	
S16Q-SDUCR/L11					6°	DC□□ 11T3□□	CS35	T-15	•	•	
S20R-SDUCR/L11					8°				•	•	
S25R-SDUCR/L11					4°				•	•	
S32S-SDUCR/L11					4°	DC□□ 0702□□	CS25	T-8	•	•	
C10M-SDUCR07					10°				•	•	
C12Q-SDUCR07					8°				•	•	
C16R-SDUCR07					6°	DC□□ 11T3□□	CS35	T-15	•	•	
C20S-SDUC11					8°				•	•	
C20T-SDUCR11					4°				•	•	



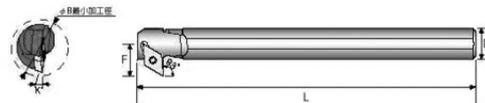
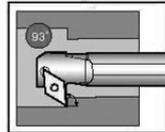
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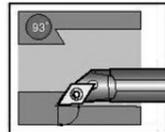
SDQC

CODE	Dimensions(mm)					Insert	Parts		Stock	
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S10K-SDQCR/L07	10	7	125	13	10°	DC□□ 0702□□	CS25	T-8	•	•
S12M-SDQCR/L07	12	9	150	16	8°				•	•
S16Q-SDQCR/L07	16	11	180	20	6°				•	•
S20R-SDQCR/L11	20	13	200	25	8°	DC□□ 11T3□□	CS35	T15	•	•
S25R-SDQCR/L11	25	17	200	32	4°				•	•
S32S-SDQCR/L11	32	20	250	39	4°				•	•
C10M-SDQCR07	10	7	150	13	10°	DC□□ 0702□□	CS25	T-8	•	•
C12Q-SDQCR07	12	9	180	16	8°				•	•
C16R-SDQCR07	16	11	200	20	6°				•	•
C20S-SDQCR11	20	13	250	25	8°	DC□□ 11T3□□	CS35	T15	•	•
C25T-SDQCR11	25	17	300	32	4°				•	•



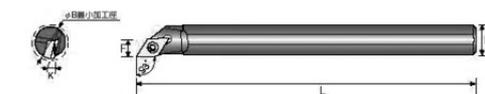
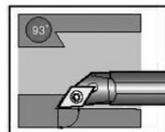
SDZC

CODE	Dimensions(mm)					Insert	Parts		Stock	
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S10K-SDZCR/L07	10	8.5	125	13	12°	DC□□ 0702□□	CS25	T-8	•	•
S12M-SDZCR/L07	12	10.5	150	16	9°				•	•
S16Q-SDZCR/L07	16	12.5	180	20	8°				•	•
S20R-SDZCR/L11	20	15.5	200	25	8°	DC□□ 11T3□□	CS35	T15	•	•
S25R-SDZCR/L11	25	18	200	32	4°				•	•
S32S-SDZCR/L11	32	20.5	250	38	4°				•	•



SDJC

CODE	Dimensions(mm)					Insert	Parts		Stock	
	D	F	L	B	K°				R	L
S8K-SDJCR07	8	5	125	10	10°	DC□□ 0702□□	CS25	T-8	•	•
S10K-SDJCR07	10	6	125	12	10°				•	•
S12M-SDJCR07	12	7	150	14	8°				•	•
S16Q-SDJCR07	16	9.5	180	19	6°				•	•
S16Q-SDJCR11	16	10	180	19	6°	DC□□ 11T3□□	CS35	T15	•	•
S20R-SDJCR11	20	12	200	24	8°				•	•
S25R-SDJCR11	25	15	200	30	4°				•	•



SVQC

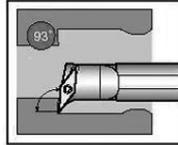
CODE	Dimensions(mm)					Insert	Parts		Stock	
	D	F	L	B	K°				R	L
S16Q-SVQC(B)R11	16	11	180	20	7°	VC□□1103□□ VB□□1103□□	CS25	T8	•	•
S20R-SVQC(B)R11	20	13	200	25	7°				•	•
S25R-SVQC(B)R11	25	17	200	32	5°	VC□□1604□□ VB□□1604□□	CS35	T15	•	•



BORING BAR

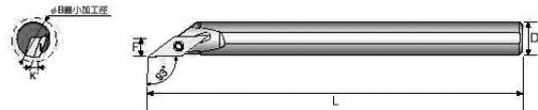
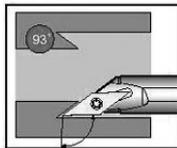
BORING BAR SERIES

SVUC



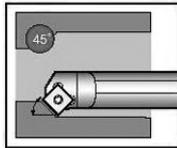
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S16Q-SVU(B)R/L11	16	9.5	180	18	7°	VC□□1103□□ VB□□1103□□	CS25	T-8	•	
S20R-SVU(B)R/L11	20	11.5	200	22	7°				•	•
S25R-SVU(B)R/L16	25	16	200	32	5°	VC□□1604□□ VB□□1604□□	CS35	T15	•	

SVJC



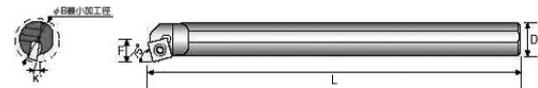
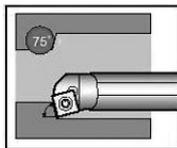
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	D	F	L	B	K°				R	L
S12M-SVJ(B)R/L11	12	7	150	14	10°	VC□□1103□□ VB□□1103□□	CS25	T-8	•	•
S16Q-SVJ(B)R/L16	16	9.5	180	18	7°				•	•
S20R-SVJ(B)R/L16	20	9.5	200	25	7°	VC□□1604□□ VB□□1604□□	CS35	T-15	•	•
S25R-SVJ(B)R/L16	25	11.5	200	32	7°				•	•
S32S-SVJ(B)R/L16	32	14	250	40	5°				•	•

SSSC



CODE	Dimensions(mm)					Insert	Parts		Stock	
	D	F	L	B	K°				R	L
S12M-SSSCR/L09	12	8.5	150	16	12°				•	
S16Q-SSSCR/L09	16	11.5	180	22	10°	SC□□ 09T3□□	CS35	T-15	•	
S20R-SSSCR/L09	20	13.5	200	26	8°				•	
S25R-SSSCR/L09	25	18	200	31	6°				•	

SS1C



CODE	Dimensions(mm)					Insert	Parts		Stock	
	D	F	L	B	K°				R	L
S12M-SSKCR/L09	12	8.5	150	16	12°				•	
S16Q-SSKCR/L09	16	10.5	180	20	10°	SC□□ 09T3□□	CS35	T-15	•	
S20R-SSKCR/L09	20	12.5	200	24	8°				•	
S25R-SSKCR/L09	25	15	200	31	6°				•	

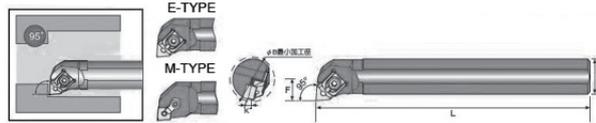


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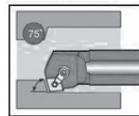
CLN 95°



CODE	Dimensions(mm)					Insert	Parts					Stock		
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S32S-ECLNR/L12	32	22	250	40	14°	CN□□ 1204□□		SMC-432	LW-4B	CN 12-2	CS80	C-6	•	•
S40T-ECLNR/L12	40	27	300	50	12°								•	•
S50U-ECLNR/L12	50	35	350	63	12°								•	•

CODE	Dimensions(mm)					Insert	Parts					Stock	
	D	F	L	B	K°								R
S20R-MCLNR/L12	20	13	200	25	17°	CN□□ 1204□□		-	LCS-511	CP50-21	CS70-20	•	•
S25R-MCLNR/L12	25	17	200	32	14°								
S32S-MCLNR/L12	32	22	250	40	14°								
S40T-MCLNR/L12	40	27	300	50	12°								
S50U-MCLNR/L12	50	35	350	63	12°								
							SMC-432	LCS-617	CP50-22	CS70-22	•	•	

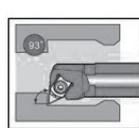
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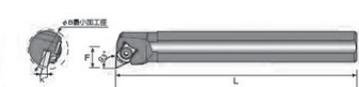
MCKN 75°



CODE	Dimensions(mm)					Insert	Parts					Stock	
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S25R-MCKNR/L12	25	17	200	32	14°								
S32S-MCKNR/L12	32	22	250	40	14°								
S40T-MCKNR/L12	40	27	300	50	12°								
S50U-MCKNR/L12	50	35	350	63	12°								
							SMC-432	LCS-617	CP50-22	CS70-22	•	•	



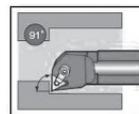
TUN 93°



CODE	Dimensions(mm)					Insert	Parts					Stock		
	D	F	L	B	K°								R	L
S25R-ETUNR/L16	25	17	200	32	12°	TN□□ 1604□□		-	LT-2	TN16-2	CS60E	C-6	•	•
S32S-ETUNR/L16	32	22	250	40	10°									
S40T-ETUNR/L16	40	27	300	50	10°									
S50U-ETUNR/L16	50	35	350	63	8°									
							SMC-322	LT-3	TN16-3	CS80	C-6	•	•	

CODE	Dimensions(mm)					Insert	Parts					Stock	
	D	F	L	B	K°								R
S16Q-MTUNR/L16A	16	11	180	22	17°	TN□□ 1604□□		-	LCS-510	CP50-21	CS70-20	•	•
S20R-MTUNR/L16A	20	18	200	25	17°								
S25R-MTUNR/L16A	25	17	200	32	12°								
S32S-MTUNR/L16A	32	22	250	40	10°								
S40T-MTUNR/L16A	40	27	300	50	10°								
S50U-MTUNR/L16A	50	35	350	63	8°								
							SMT-322	LCS-513	CP50-22	CS70-22	•	•	

• Recommend you to choose our patent product E-TYPE.



NTFN 90°

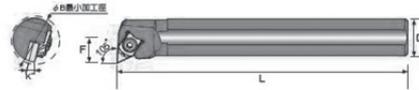
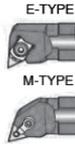
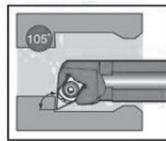


CODE	Dimensions(mm)					Insert	Parts					Stock	
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S25R-MTFNR/L16	25	17	200	32	12°								
S32S-MTFNR/L16	32	22	250	40	10°								
S40T-MTFNR/L16	40	27	300	50	10°								
S50U-MTFNR/L16	50	35	350	63	8°								



BORING BAR

BORING BAR SERIES

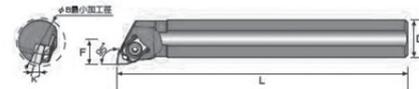
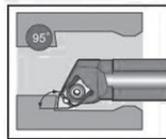


TQN 105°

CODE	Dimensions(mm)					Insert	Parts					Stock	
	D	F	L	B	K°							R	L
S20R-ETQNR/L16	20	13	200	25	17°	TN□□ 1604□□	-	LT-2	TN16-2	CS60E	C-6		
S25R-ETUNR/L16	25	17	200	32	12°							•	•
S32S-ETUNR/L16	32	22	250	40	10°							•	•
S40T-ETUNR/L16	40	27	300	50	10°							•	•
S50U-ETUNR/L16	50	35	350	63	8°							•	•

CODE	Dimensions(mm)					Insert	Parts					Stock	
	D	F	L	B	K°							R	L
S20R-MTQNR/L16	20	18	200	25	17°	TN□□ 1604□□	-	LCS-510	CP50-21	CS70-20	•		
S25R-MTQNR/L16	25	17	200	32	12°						•	•	
S32S-MTQNR/L16	32	22	250	40	10°				•	•			
S40T-MTQNR/L16	40	27	300	50	10°				•	•			
S50U-MTQNR/L16	50	35	350	63	8°				•	•			

• Recommend you to choose our patent product E-TYPE.

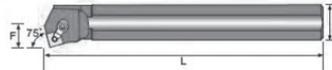
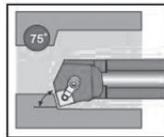


WLN 95°

CODE	Dimensions(mm)					Insert	Parts					Stock	
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S20R-EWLNR/L06	20	13	200	25	17°	WN□□ 0604□□	-	LCS-511	WN06-2	CS60E	C-6	•	•
S25R-EWLNR/L06	25	17	200	32	14°				•			•	
S25R-EWLNR/L08	25	17	200	32	14°	WN□□ 0804□□	SMW-422	LCS-617	WN08-3	CS80	C-6	•	•
S32S-EWLNR/L08	32	22	250	40	14°				•			•	
S40T-EWLNR/L08	40	27	300	50	12°				•			•	
S50U-EWLNR/L08	50	35	350	63	12°				•			•	

CODE	Dimensions(mm)					Insert	Parts					Stock	
	D	F	L	B	K°							R	L
S20R-MWLNR/L16	20	13	200	25	17°	WN□□ 0804□□	-	LCS-511	CP50-21	CS70-20	•	•	
S25R-MWLNR/L16	25	17	200	32	14°				•		•		
S32S-MWLNR/L16	32	22	250	40	14°				•		•		
S40T-MWLNR/L16	40	27	300	50	12°				•		•		
S50U-MWLNR/L16	50	35	350	63	12°				•		•		

• Recommend you to choose our patent product E-TYPE.



MSKN 75°

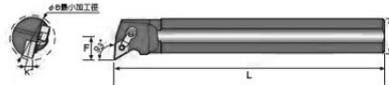
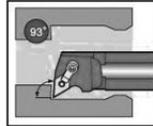
CODE	Dimensions(mm)					Insert	Parts					Stock	
	D	F	L	B	K°							R	L
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S25R-MSKNR/L12	25	17	200	32	14°				•		•		
S32S-MSKNR/L12	32	22	250	40	14°				•		•		
S40T-MSKNR/L12	40	27	300	50	12°				•		•		
S50U-MSKNR/L12	50	35	350	63	12°				•		•		



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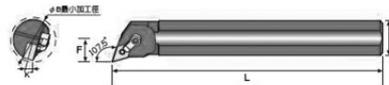
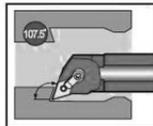
BORING BAR SERIES

MDUN 93°



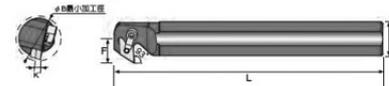
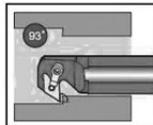
CODE	Dimensions(mm)					Insert	Parts					Stock	
	D	F	L	B	K°							R	L
S25R-MDUNR/L15	25	17	200	32	12°	DN□□ 1504□□		SMD -443	LCS-619	CP50-24	CS70-22	•	•
S32S-MDUNR/L15	32	22	250	40	10°							•	•
S40T-MDUNR/L15	40	27	300	50	10°							•	•
S50U-MDUNR/L15	50	35	350	63	10°							•	•

MDQN 107.5°



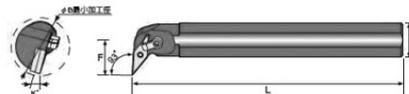
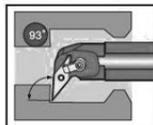
CODE	Dimensions(mm)					Insert	Parts					Stock	
	D	F	L	B	K°							R	L
S25R-MDQNR/L15	25	17	200	32	12°	DN□□ 1504□□		SMD -443	LCS-619	CP50-24	CS70-22	•	•
S32S-MDQNR/L15	32	22	250	40	10°							•	•
S40T-MDQNR/L15	40	27	300	50	10°							•	•
S50U-MDQNR/L15	50	35	350	63	10°							•	•

MDZN 93°



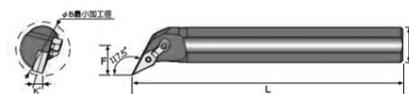
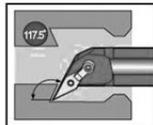
CODE	Dimensions(mm)					Insert	Parts					Stock	
	D	F	L	B	K°							R	L
S32S-MDZNR/L15	32	22	250	40	10°	DN□□ 1504□□		SMD -443	LCS-619	CP50-24	CS70-22	•	•
S40T-MDZNR/L15	40	27	300	50	10°							•	•
S50U-MDZNR/L15	50	35	350	63	10°							•	•

MVUN 93°



CODE	Dimensions(mm)					Insert	Parts					Stock	
	D	F	L	B	K°							R	L
S25R-MVUNR/L15	25	20	200	36	12°	VN□□ 1604□□	SMV -322	LCS-513	CP50-22	CS70-22	•	•	
S32S-MVUNR/L15	32	22	250	42	17°				CP50-25		•	•	
S40T-MVUNR/L15	40	26	300	50	15°				•		•		
S50U-MVUNR/L15	50	32	350	63	12°				•		•		

MVQN 117.5°



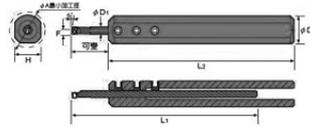
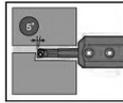
CODE	Dimensions(mm)					Insert	Parts					Stock	
	D	F	L	B	K°							R	L
S25R-MVQNR/L16	25	17	200	32	12°	VN□□ 1604□□	SMV -322	LCS-513	CP50-25	CS70-22	•	•	
S32S-MVQNR/L16	32	23	250	42	17°						•	•	
S40T-MVQNR/L16	40	27	300	50	15°						•	•	
S50U-MVQNR/L16	50	33	350	63	12°						•	•	



BORING BAR

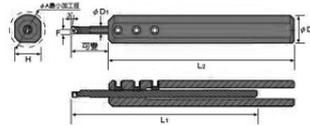
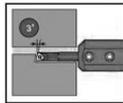
BORING BAR SERIES

SCLC



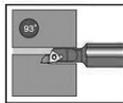
CODE	Dimensions(mm)							Insert	Parts			Stock	
	ØA	ØD1	H	L1	L2	F	ØD2					R	L
C04G-SCLCR03-05	5	4	15	90	100	2.5	16	CCGT0301	CS20	T-6	•		
C05H-SCLCR03-05	6	5	15	100	100	3	16				•		
C06J-SCLCR04-07	7	6	15	110	100	3.5	16				•		

SWUB



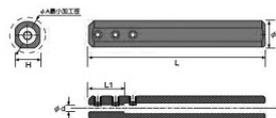
CODE	Dimensions(mm)							Insert	Parts			Stock	
	ØA	ØD1	H	L1	L2	F	ØD2					R	L
C05H-SWUBR06-06	6	5	15	100	100	3	16	WBMT0601	CS20	T-6	•		
C06J-SWUBR06-07	7	6	15	110	100	3.5	16				•		

SWUB



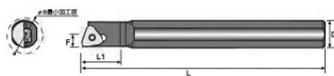
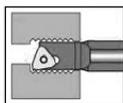
CODE	Dimensions(mm)					Insert	Parts			Stock			
	D	L	L1	B	H					R	L		
S1005J-SWUBR06-06	10	110	20	6	9	WB□0601	CS20	T-6	•				
S1006J-SWUBR06-07	10	110	20	7	9	WB□0601			•				
S1007J-SWUBR08-08	10	110	20	8	9	WB□0802			•				
S06J-SWUBR06-08	6	110	20	8	5	WB□0601			•				
S0805J-SWUCR02-06	8	110	20	6	7	WB□0201			•				
S1205J-SWUCR06-06	12	100	20	6	11	WB□0601			•				
S1607J-SWUCR06-08	16	120	20	8	15	CC□0602	CS25	T-8	•				
S1608J-SWUCR06-09	16	120	22	9	15				•				
S1609J-SWUCR06-10	16	120	25	10	15				•				
S1610K-SWUCR06-12	16	125	25	12	15				•				
S1606J-STUBR06-07	16	120	20	7	9				TB□0601	CS20	T-6	•	
S1607J-STUBR06-08	16	120	20	8	9							•	
S1608J-STUBR06-09	16	120	20	9	9	•							
S1609J-STUBR06-10	16	120	25	10	15	•							
S1609J-STUBR08-12	16	120	25	10	15	TP□0602	CS22	T-7				•	
S1610K-STUBR11-12	16	120	25	12	15	TP□1103	CS30	T-10				•	

SCLC



CODE	Dimensions(mm)						Insert	Parts			Stock	
	ØA	Ød	L	L1	A	H					R	L
SHB-0416	16	4	100	20	5	15	C04	ES40	LE025	•		
SHE-1516	16	5	100	20	6	15	C05			•		
SHE-1616	16	6	100	20	7	15	C06			•		

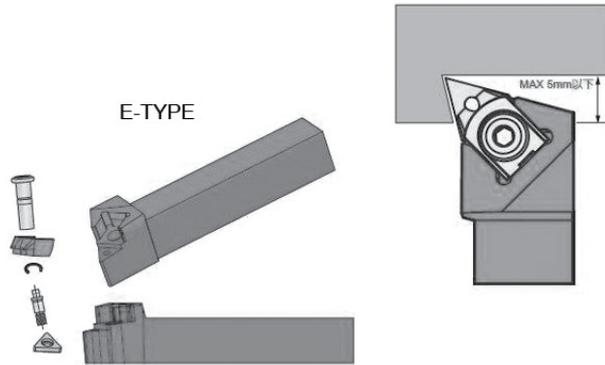
SCLC



CODE	Dimensions(mm)				Insert		Parts				Stock	
	D	L	L1	B							R	L
SNR0006H-06	12	100	10	6.4	6NR	-	-	CS20	-	T-06	•	•
SNR0008K-08	16	125	15	9	8NR	-	-	CS22	-	T-07	•	•
SINR/L-1012-11	12	125	25	10	11R/L	-	-	CS30	-	T-10	•	•
SINR/L-1210-11	10	125	25	12	11R/L	-	-	CS30	-	T-10	•	•
SINR/L-1216	16	150	25	12	11R/L	-	-	CS30	-	T-10	•	•
SINR/L-1516	16	150	30	16	11R/L	-	-	CS30	-	T-10	•	•
SINR/L-1616-16	16	150	30	16	16R/L	-	-	CS35	-	T-15	•	•
SINR/L-2016-16	16	150	20	20	16R/L	-	-	CS35	-	T-15	•	•
SINR/L-2420S-16	20	180	20	24	16R/L	AL16	AE16	CS35116	CS6-0306	T-15	•	•
SINR/L-3025S-16	25	200	25	30	16R/L	AL16	AE16	CS35116	CS6-0306	T-15	•	•
SINR/L-3732S-16	32	250	45	37	16R/L	AL16	AE16	CS35116	CS6-0306	T-15	•	•



TOOL HOLDERS

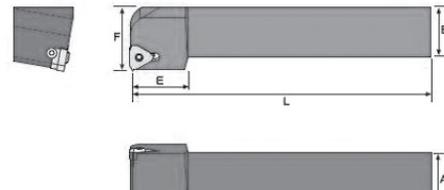
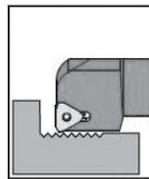


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• Recommend you to choose our patent product E-TYPE.

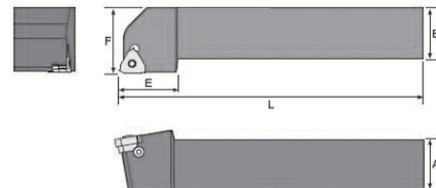
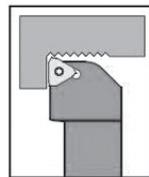
TOOL HOLDERS SERIES

ESER/L



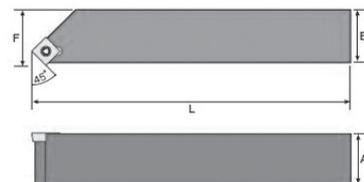
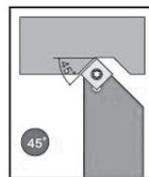
CODE	Dimensions(mm)					Insert	Parts					Stock		
	A	B	L	E	F								R	L
ESER/L-1616K16	16	16	125	22	20	16ER/L							•	•
ESER/L-2020K16	20	20	125	22	25								•	•
ESER/L-2525M16	25	25	150	22	32								•	•
ESER/L-3232P16	32	32	170	22	32								•	•

SER/L



CODE	Dimensions(mm)					Insert	Parts					Stock		
	A	B	L	E	F								R	L
SER/L-1616K16	16	16	125	22	20	16ER/L							•	•
SER/L-2020K16	20	20	125	22	25								•	•
SER/L-2525M16	25	25	150	22	32								•	•
SER/L-3232P16	32	32	170	22	32								•	•

SSSC

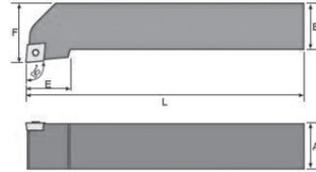
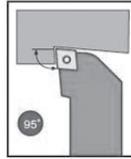


CODE	Dimensions(mm)				Insert	Parts		Price
	A	B	L	F				
SSSCR/L-1212K09	12	12	125	13				•
SSSCR/L-1616K09	16	16	125	17				•



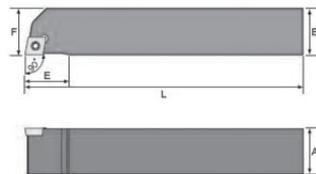
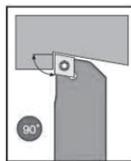
TOOL HOLDERS

TOOL HOLDERS SERIES



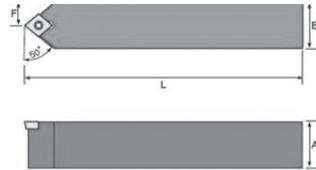
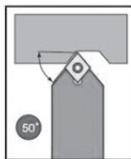
SCLC

CODE	Dimensions(mm)					Insert	Parts		Stock	
	A	B	L	E	F				R	L
SCLCR/L-0808K06	8	8	125	8	10	CC□□0602□□	CS25	T-8	•	•
SCLCR/L-1010K06	10	10	125	10	12				•	•
SCLCR/L-1212K09	12	12	125	12	16	CC□□09T3□□	CS35	T-15	•	•
SCLCR/L-1616K09	16	16	125	16	20				•	•
SCLCR/L-2020K09	20	20	125	30	25				•	•
SCLCR/L-2525M09	25	25	150	30	32	CC□□1204□□	CS45	T-15	•	•
SCLCR/L-2020K12	20	20	125	30	25				•	•
SCLCR/L-2525M12	25	25	150	30	32				•	•



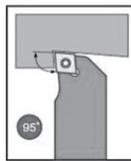
SCAC-N

CODE	Dimensions(mm)					Insert	Parts		Stock	
	A	B	L	E	F				R	L
SCACR/L-0808K06N	8	8	125	10	8	CC□□0602□□	CS25	T-8	•	•
SCACR/L-1010K06N	10	10	125	10	10				•	•
SCACR/L-1212K09N	12	12	125	13	12	CC□□09T3□□	CS35	T-15	•	•



SCLC

CODE	Dimensions(mm)				Insert	Parts		Stock	
	A	B	L	F				R	L
SCNCN-1010K06	10	10	125	5	CC□□0602□□	CS25	T-8	•	•
SCNCN-1212K09	12	12	125	6				•	•
SCNCN-1616K09	16	16	125	8	CC□□09T3□□	CS35	T-15	•	•
SCNCN-2020K09	20	20	125	10				•	•
SCNCN-2525M09	25	25	150	12.5				•	•
SCNCN-2020K12	20	20	125	10	CC□□1204□□	CS45	T-15	•	•
SCNCN-2525M12	25	25	150	12.5				•	•



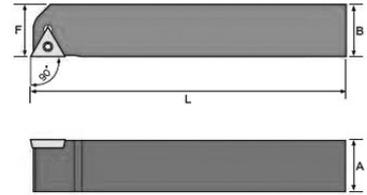
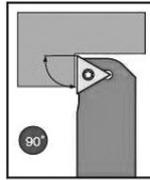
SCLC-N

CODE	Dimensions(mm)				Insert	Parts		Stock	
	A	B	L	F				R	L
SCLCR/L-0808K06N	8	8	125	8	CC□□0602□□	CS25	T-8	•	
SCLCR/L-1010K06N	10	10	125	10				•	
SCLCR/L-1212K09N	12	12	125	12	CC□□09T3□□	CS35	T-15	•	
SCLCR/L-1616K09N	16	16	125	16				•	



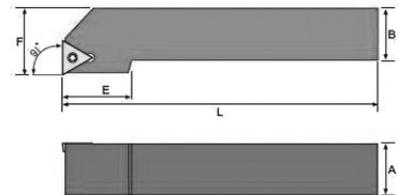
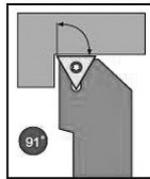
TOOL HOLDERS

BORING BAR SERIES



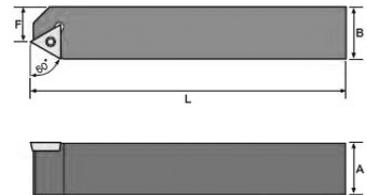
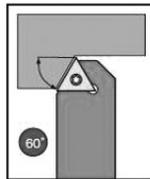
STAC-N

CODE	Dimensions(mm)				Insert	Parts		Stock	
	A	B	L	F				R	L
STACR/L-0808K09	8	8	125	8	TC□□0902□□		T-7	•	•
STACR/L-1010K06	10	10	125	10				•	•
STACR/L-1212K44	12	12	125	12	TC□□1102□□	CS25	T-8	•	•
STACR/L-1616K11	16	16	125	16				•	•



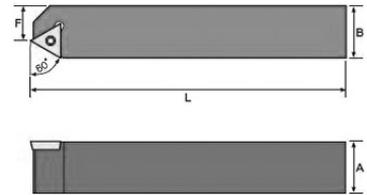
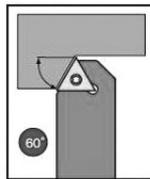
STFC

CODE	Dimensions(mm)					Insert	Parts		Stock	
	A	B	L	E	F				R	L
SCLCR/L-1212K09	12	12	125	14	12	TC□□1102□□	CS25	T-8	•	•
SCLCR/L-1616K09	16	16	125	14	16				•	•
SCLCR/L-2020K09	20	20	125	30	20	TC□□16T3□□	CS35	T-15	•	•
SCLCR/L-2525M09	25	25	150	30	25				•	•



STEC

CODE	Dimensions(mm)				Insert	Parts		Stock	
	A	B	L	F				R	L
STECR/L-2020K11	20	20	125	14.5	TC□□1102□□	CS25	T-8	•	•
STECR/L-2525M11	25	25	150	19.5				•	•
STECR/L-2020K16	20	20	125	12	TC□□16T3□□	CS35	T-15	•	•
STECR/L-2525M16	25	25	150	17				•	•



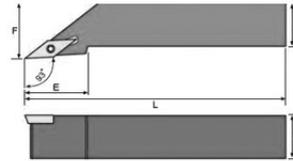
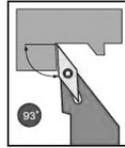
STEP

CODE	Dimensions(mm)				Insert	Parts		Stock	
	A	B	L	F				R	L
STEPR/L-2020K11	20	20	125	14.5	TC□□1103□□	CS30	T-10	•	•
STEPR/L-2525M11	25	25	150	19.5				•	•



TOOL HOLDERS

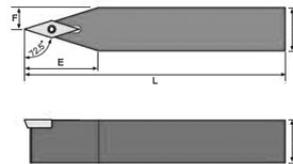
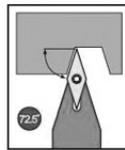
TOOL HOLDERS SERIES



SVJC

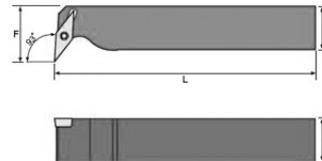
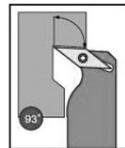
CODE	Dimensions(mm)					Insert	Parts		Stock	
	A	B	L	E	F				R	L
SVJC(B)R/L-1010K11	10	10	125	18	12	VC□□1103□□ VB□□1103□□	CS25	T-8	•	•
SVJC(B)R/L-1212K11	12	12	125	18	16				•	•
SVJC(B)R/L-1616K11	16	16	125	30	20				•	•
SVJC(B)R/L-2020K11	20	20	125	30	25				•	•
SVJC(B)R/L-1616K16	16	16	125	30	20	VC□□1604□□ VB□□1604□□	CS35	T-15	•	•
SVJC(B)R/L-2020K16	20	20	125	30	25				•	•
SVJC(B)R/L-2525M16	25	25	150	30	32				•	•
									•	•

• VC and VB inserts can be use the same tool body.



SVVC

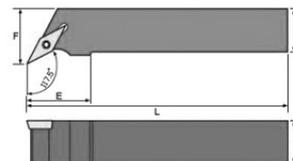
CODE	Dimensions(mm)					Insert	Parts		Stock	
	A	B	L	E	F				R	L
SVVC(B)R/L-1010K11	10	10	125	18	5	VC□□1103□□ VB□□1103□□	CS25	T-8	•	•
SVVC(B)R/L-1212K11	12	12	125	18	6				•	•
SVVC(B)R/L-1616K11	16	16	125	30	8				•	•
SVVC(B)R/L-2020K16	20	20	125	30	10				•	•
SVVC(B)R/L-2525M16	25	25	150	30	12.5	VC□□1604□□ VB□□1604□□	CS35	T-15	•	•



SVUC

CODE	Dimensions(mm)				Insert	Parts		Stock	
	A	B	L	F				R	L
SVUC(B)R/L-1616K11	16	16	125	24.4	VC□□1103□□ VB□□1103□□	CS25	T-8	•	
SVUC(B)R/L-2020K11	20	20	125	28.4				•	
SVUC(B)R/L-2020K16	20	20	125	30	VC□□1604□□ VB□□1604□□	CS35	T-15	•	•
SVUC(B)R/L-2525M16	25	25	150	35				•	•

• VC and VB inserts can be use the same tool body.



SVQC

CODE	Dimensions(mm)					Insert	Parts		Stock	
	A	B	L	E	F				R	L
SVQC(B)R/L-1010K11	10	10	125	14	14.5	VC□□1103□□ VB□□1103□□	CS25	T-8	•	
SVQC(B)R/L-1212K11	12	12	125	18	16.5				•	
SVQC(B)R/L-1616K11	16	16	125	30	2.05				•	
SVQC(B)R/L-1616K16	16	16	125	30	20	VC□□1604□□ VB□□1604□□	CS35	T-15	•	
SVQC(B)R/L-2020K16	20	20	125	30	25				•	•
SVQC(B)R/L-2525M16	25	25	150	30	32				•	•
									•	•

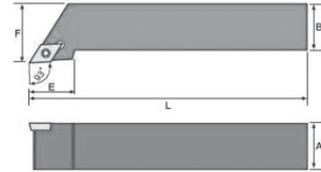
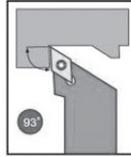
• VC and VB inserts can be use the same tool body.



TOOL HOLDERS

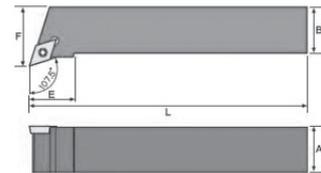
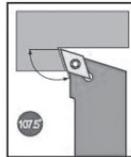
TOOL HOLDERS SERIES

SDJC



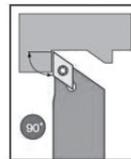
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SDJCR/L-0808K07	8	8	125	12	10	DC□□0702□□		T-8	●	●
SDJCR/L-1010K07	10	10	125	14	12				●	●
SDJCR/L-1212K11	12	12	125	18	16	DC□□11T3□□		T-15	●	●
SDJCR/L-1616K11	16	16	125	30	20				●	●
SDJCR/L-2020K11	20	20	125	30	25				●	●
SDJCR/L-2525M11	25	25	150	30	32	●	●			

SDQC



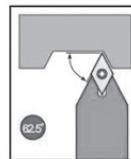
CODE	Dimensions(mm)					Insert	Parts		Stock	
	A	B	L	E	F				R	L
SDQCR/L-1010K07	10	10	125	14	12	DC□□0702□□		T-8	●	●
SDQCR/L-1212K11	12	12	125	18	16				●	●
SDQCR/L-1616K11	16	16	125	30	20	DC□□11T3□□		T-15	●	●
SDQCR/L-2020K11	20	20	125	30	25				●	●
SDQCR/L-2525M11	25	25	150	30	32				●	●

SDAC-N



CODE	Dimensions(mm)				Insert	Parts		Stock	
	A	B	L	F				R	L
SDACR/L-0808K07N	8	8	125	8	DC□□0702□□		T-8	●	
SDACR/L-1010K07N	10	10	125	10				●	
SDACR/L-1212K07N	12	12	125	12				●	
SDACR/L-1212K11N	12	12	125	12	DC□□11T3□□		T-15	●	
SDACR/L-1616K11N	16	16	125	16				●	

SDNC

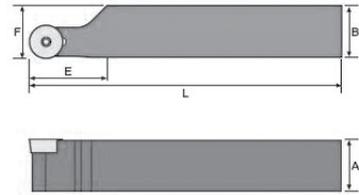
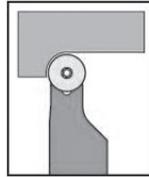


CODE	Dimensions(mm)				Insert	Parts		Price
	A	B	L	F				
SDJCR/L-0808K07	8	8	125	4	DC□□0702□□		T-8	●
SDJCR/L-1010K07	10	10	125	5				●
SDJCR/L-1212K11	12	12	125	6	DC□□11T3□□		T-15	●
SDJCR/L-1616K11	16	16	125	8				●



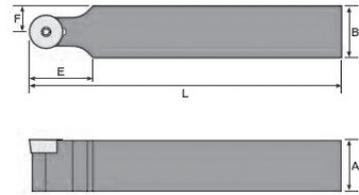
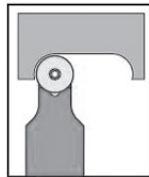
TOOL HOLDERS

TOOL HOLDERS SERIES



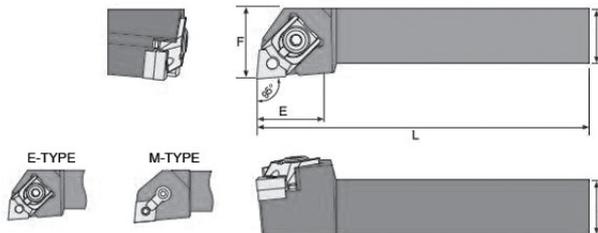
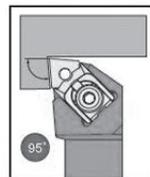
SRAC

CODE	Dimensions(mm)					Insert	Parts		Stock		
	A	B	L	E	F				R	L	
SRACR/L-1212K06	12	12	125	14	12.3	RC□□0602□□		CS35	T-8	•	
SRACR/L-1616K06	16	16	125	14	16.3					•	
SRACR/L-1212K08	12	12	125	16	12.4	RC□□0803□□		CS30	T-10	•	
SRACR/L-1616K08	16	16	125	16	16.4					•	
SRACR/L-2020K08	20	20	125	16	20.4					•	
SRACR/L-2525M08	25	25	150	16	25.4					•	



SRDC

CODE	Dimensions(mm)					Insert	Parts		Stock		
	A	B	L	E	F				R	L	
SRDCN-1212K06	12	12	125	12	6	RC□□0602□□		CS35	T-8	•	
SRDCN-1616K06	16	16	125	12	8					•	
SRDCN-1212K08	12	12	125	16	6	RC□□0803□□		CS30	T-10	•	
SRDCN-1616K08	16	16	125	16	8					•	
SRDCN-2020K08	20	20	125	16	10					•	
SRDCN-2525M08	25	25	150	16	12.5					•	



CLN 95°

CODE	Dimensions(mm)					Insert		Parts				Stock	
	A	B	L	E	F							R	L
ECLNR/L-2020K12	20	20	125	32	25	CN□□1204□□	SMC-432	LW-4	CN12-2	CS80	C-6	•	•
ECLNR/L-2525M12	25	25	150	32	32							•	•
ECLNR/L-3232P12	32	32	170	32	40	CN□□1606□□	SMC-416	LW-4	CN12-2	CS80	C-6	•	•
ECLNR/L-2525M16	25	25	150	32	32							•	•
ECLNR/L-3232P16	32	32	170	32	40							•	•

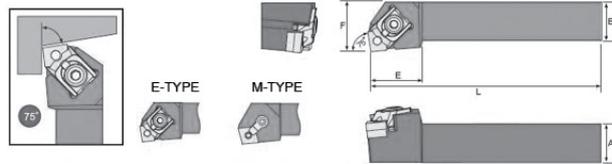
CODE	Dimensions(mm)					Insert		Parts			Stock	
	A	B	L	E	F						R	L
MCLNR/L-1616K12	16	16	125	32	20	CN□□1204□□	SMC-432	LCS-617	CP50-22	CS70-21	•	•
MCLNR/L-2020K12	20	20	125	32	25						•	•
MCLNR/L-2525M12	25	25	150	32	32						•	•
MCLNR/L-3232P12	32	32	170	32	40						•	•

• Recommend you to choose our patent product E-TYPE.



TOOL HOLDERS

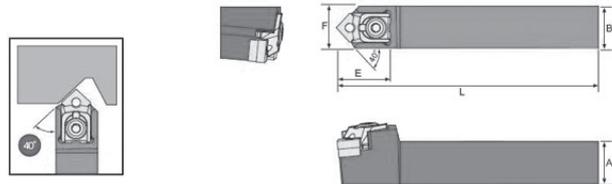
TOOL HOLDERS SERIES



CKN 75°

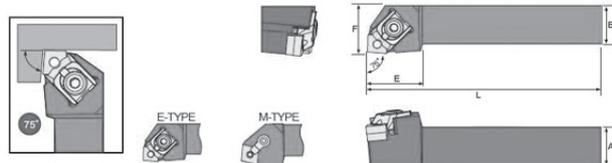
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	A	B	L	E	F							R	L	
ECLNR/L-2020K12	20	20	125	32	25							C-6	•	•
ECLNR/L-2525M12	25	25	150	32	32								•	•
ECLNR/L-3232P12	32	32	170	32	40								•	•

CODE	Dimensions(mm)					Insert		Parts					Stock	
	A	B	L	E	F							R	L	
MCLNR/L-2020K12	20	20	125	32	20							CS70-21	•	•
MCLNR/L-2525M12	25	25	150	32	32							•	•	
MCLNR/L-3232P12	32	32	170	32	40							•	•	



ECMNN 40°

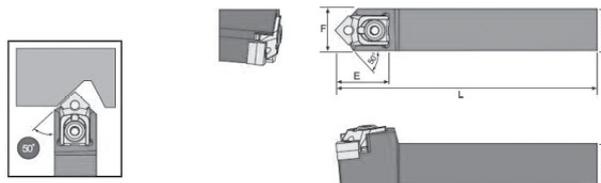
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	A	B	L	E	F							R	L	
ECMNN-2020K12	20	20	125	32	25							C-6	•	•
ECMNN-2525M12	25	25	150	32	32								•	•
ECMNN-3232P12	32	32	170	32	40								•	•
ECMNN-2525M16	25	25	150	32	32							C-6	•	•



CRN 75°

CODE	Dimensions(mm)					Insert		Parts					Stock	
	A	B	L	E	F							R	L	
ECRNR/L-2020K12	20	20	125	32	25							C-6	•	•
ECRNR/L-2525M12	25	25	150	32	32								•	•
ECRNR/L-3232P12	32	32	170	32	40								•	•

CODE	Dimensions(mm)					Insert		Parts					Stock	
	A	B	L	E	F							R	L	
MCRNR/L-2020K12	20	20	125	32	25							CS70-21	•	•
MCRNR/L-2525M12	25	25	150	32	32							•	•	
MCRNR/L-3232P12	32	32	170	32	40							•	•	



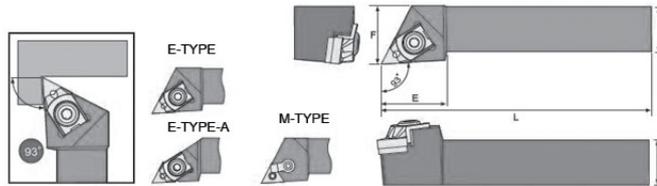
ECMNN-A 50°

CODE	Dimensions(mm)					Insert		Parts					Stock	
	A	B	L	E	F							R	L	
ECMNN-2020K12-A	20	20	125	32	25							C-6	•	•
ECMNN-2525M12-A	25	25	150	32	32								•	•
ECMNN-3232P12-A	32	32	170	32	40								•	•
ECMNN-2525M16-A	25	25	150	32	32							C-6	•	•



TOOL HOLDERS

TOOL HOLDERS SERIES



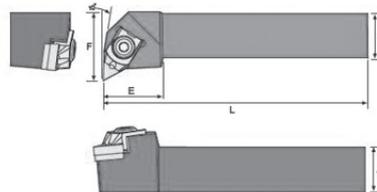
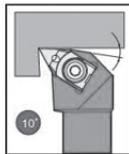
TIN 93°

CODE	Dimensions(mm)					Insert		Parts				Stock	
	A	B	L	E	F							R	L
ETJNR/L-1616K16	16	16	125	30	20	TN□□ 1604□□	SMT -322	LT-2	TN16-2	CS60E	C-6	•	•
ETJNR/L-2020K16	20	20	125	32	25							•	•
ETJNR/L-2525M16	25	25	150	32	32							•	•
ETJNR/L-3232P16	32	32	170	32	40							•	•

CODE	Dimensions(mm)					Insert		Parts				Stock	
	A	B	L	E	F							R	L
ETJNR/L-2020K16A	20	20	125	32	25	TN□□ 1604□□	SMT -322	LT-3	TN16-3	CS80	C-6	•	•
ETJNR/L-2525M16A	25	25	150	32	32							•	•
ETJNR/L-3232P16A	32	32	170	32	40							•	•

CODE	Dimensions(mm)					Insert		Parts			Stock	
	A	B	L	E	F						R	L
MTJNR/L-1616K16	16	16	125	30	20	TN□□ 1604□□	SMT -322	LCS-513	CP50-22	CS70-21	•	•
MTJNR/L-2020K16	20	20	125	32	25						•	•
MTJNR/L-2525M16	25	25	150	32	32						•	•
MTJNR/L-3232P16	32	32	170	32	40						•	•

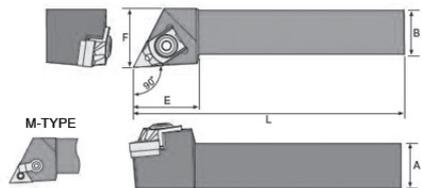
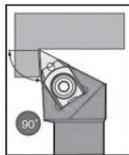
• Recommend you to choose our patent product E-TYPE.



ETXN 10°

CODE	Dimensions(mm)					Insert		Parts				Stock	
	A	B	L	E	F							R	L
ETXNR/L-2020K16	20	20	125	32	25	TN□□ 1604□□	SMT -322	LT-3	TN16-3	CS80	C-6	•	•
ETXNR/L-2525M16	25	25	150	32	32							•	•
ETXNR/L-3232P16	32	32	170	32	40							•	•

• Recommend you to choose our patent product E-TYPE.



MTGN 90°

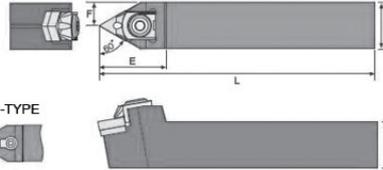
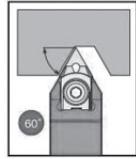
CODE	Dimensions(mm)					Insert		Parts				Stock	
	A	B	L	E	F							R	L
ETGNR/L-1616K16	16	16	125	30	20	TN□□ 1604□□	SMT -322	LT-2	TN16-2	CS60E	C-6	•	•
ETGNR/L-2020K16	20	20	125	32	25							•	•
ETGNR/L-2525M16	25	25	150	32	32							•	•

CODE	Dimensions(mm)					Insert		Parts			Stock	
	A	B	L	E	F						R	L
MTGNR/L-1616K16	16	16	100	30	20	TN□□ 1604□□	SMT -322	LCS-513	CP50-22	CS70-21	•	•
MTGNR/L-2020K16	20	20	125	32	25						•	•
MTGNR/L-2525M16	25	25	150	32	32						•	•



TOOL HOLDERS

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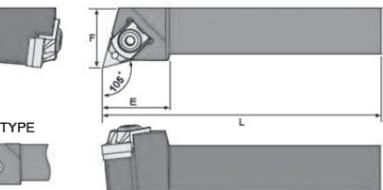
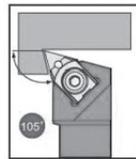


TEN 93°

CODE	Dimensions(mm)					Insert		Parts					Price
	A	B	L	E	F								
ETENN-2020K16	20	20	125	32	10	TN□□ 1604□□	SMT -322	LT-3	TN16-3	CS80	C-6	•	
ETENN-2525M16	25	25	150	32	12.5							•	

CODE	Dimensions(mm)					Insert		Parts					Stock
	A	B	L	E	F								
ETENN-2020K16	20	20	125	32	25	TN□□ 1604□□	SMT -322	LCS-513	CP50-22	CS70-21	•		
ETENN-2525M16	25	25	150	32	32						CS70-22	•	

• Recommend you to choose our patent product E-TYPE.

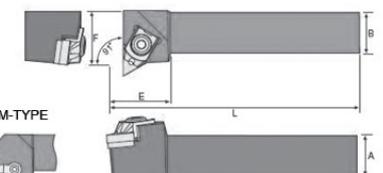
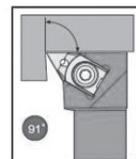


TQN 105°

CODE	Dimensions(mm)					Insert		Parts					Stock	
	A	B	L	E	F							R	L	
ETQNR/L-2020K16	20	20	125	32	25	TN□□ 1604□□	SMT -322	LT-3	TN16-3	CS80	C-6	•	•	
ETQNR/L-2525M16	25	25	150	32	32							•	•	
ETQNR/L-3232P16	32	32	170	32	40							•	•	

CODE	Dimensions(mm)					Insert		Parts					Stock	
	A	B	L	E	F							R	L	
MTQNR/L-2020K16	20	20	125	32	25	TN□□ 1604□□	SMT -322	LCS-513	CP50-22	CS70-21	•	•		
MTQNR/L-2525M16	25	25	150	32	32						•	•		
MTQNR/L-3232P16	32	32	170	32	40						•	•		

• Recommend you to choose our patent product E-TYPE.



MTFN 91°

CODE	Dimensions(mm)					Insert		Parts					Stock	
	A	B	L	E	F							R	L	
ETFNR/L-2020K16	20	20	125	32	25	TN□□ 1604□□	SMT -322	LT-3	TN16-3	CS80	C-6	•	•	
ETFNR/L-2525M16	25	25	150	32	32							•	•	
ETFNR/L-3232P16	32	32	170	32	40							•	•	

CODE	Dimensions(mm)					Insert		Parts					Stock	
	A	B	L	E	F							R	L	
MTFNR/L-2020K16	20	20	125	32	25	TN□□ 1604□□	SMT -322	LCS-513	CP50-22	CS70-21	•	•		
MTFNR/L-2525M16	25	25	150	32	32						•	•		
MTFNR/L-3232P16	32	32	170	32	40						•	•		

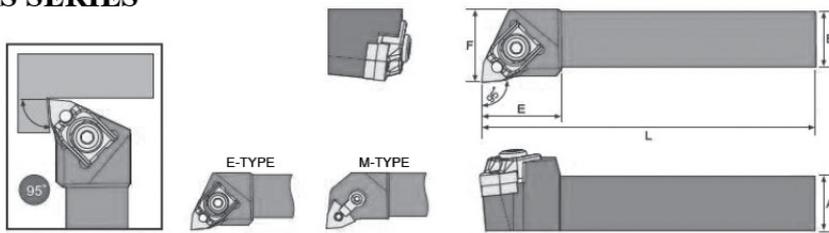


TOOL HOLDERS

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WLN 93°

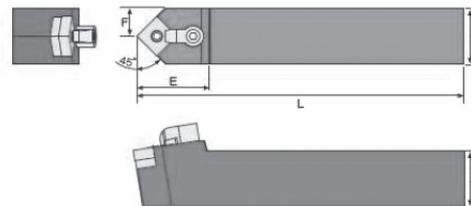
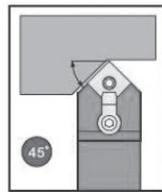


CODE	Dimensions(mm)					Insert	Parts					Stock	
	A	B	L	E	F							R	L
EWLNR/L-2020K06	20	20	125	34	25	WN□□ 0604□□	-	LW-3	WN06-2	CS60E	C-6	•	•
EWLNR/L-2525M06	25	25	125	34	25							•	•
EWLNR/L-2020K08	20	20	125	34	25							•	•
EWLNR/L-2525M08	25	25	150	34	32	WN□□ 0804□□	SMW -422	LT-4B	WN08-4	CS80	C-6	•	•
EWLNR/L-3232P08	32	32	170	34	40							•	•

CODE	Dimensions(mm)					Insert	Parts					Stock	
	A	B	L	E	F							R	L
EWLNR/L-2020K08	20	20	125	34	25							•	•
EWLNR/L-2525M08	25	25	150	34	32	TN□□ 1604□□	SMW -422	LCS -617	CP50-22		CS70-21	•	•
EWLNR/L-3232P08	32	32	170	34	40						CS70-22	•	•

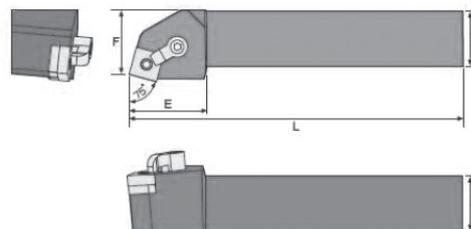
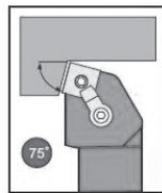
• Recommend you to choose our patent product E-TYPE.

MSDN 45°



CODE	Dimensions(mm)					Insert	Parts					Stock
	A	B	L	E	F							
MSDNN-2020K12	20	20	125	34	8							•
MSDNN-2525M12	25	25	150	34	12.5	SN□□ 1204□□	SMS -432	LCS -617	CP50-22		CS70-21	•
MSDNN-3232P12	32	32	170	34	16						CS70-22	•

MSBN 75°



CODE	Dimensions(mm)					Insert	Parts					Stock	
	A	B	L	E	F							R	L
MSBNR/L-2020K12	20	20	125	34	17							•	•
MSBNR/L-2525M12	25	25	150	34	22	SN□□ 1204□□	SMS -432	LCS -617	CP50-22		CS70-21	•	•
MSBNR/L-3232P12	32	32	170	34	27						CS70-22	•	•

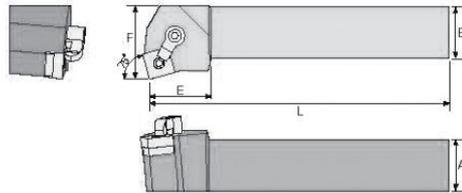
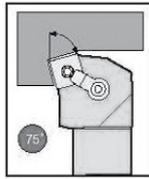


TOOL HOLDERS



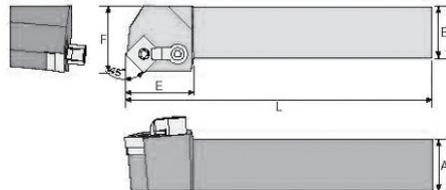
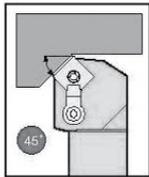
TOOL HOLDERS SERIES

MSKN 75°



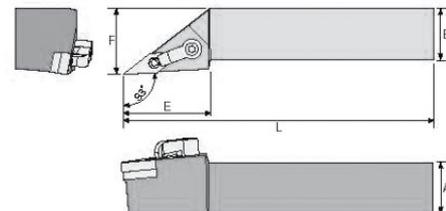
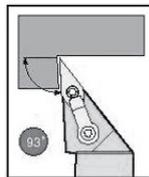
CODE	Dimensions(mm)					Insert					Parts					Stock	
	A	B	L	E	F						R	L					
MSKNR/L-2020K12	20	20	125	34	25						•	•					
MSKNR/L-2525M12	25	25	150	34	32	SN□□ 1204□□	SMS -432	LCS -617	CP50-22	CS70-21	•	•					
MSKNR/L-3232P12	32	32	170	34	40					CS70-22	•	•					

MSSN 45°



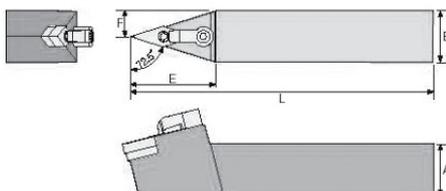
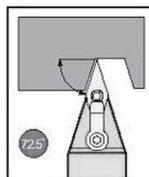
CODE	Dimensions(mm)					Insert					Parts					Stock	
	A	B	L	E	F						R	L					
MSSNR/L-2020K12	20	20	125	34	25						•	•					
MSSNR/L-2525M12	25	25	150	34	32	SN□□ 1204□□	SMS -432	LCS -617	CP50-22	CS70-21	•	•					
MSSNR/L-3232P12	32	32	170	34	40					CS70-22	•	•					

MVJN 93°



CODE	Dimensions(mm)					Insert					Parts					Stock	
	A	B	L	E	F						R	L					
MVJNR/L-2020K16	20	20	125	34	25						•	•					
MVJNR/L-2525M16	25	25	150	34	32	VN□□ 1604□□	SMV -322	LCS -513	CP50-25	CS70-21	•	•					
MVJNR/L-3232P16	32	32	170	34	40					CS70-22	•	•					

MVJN 93°



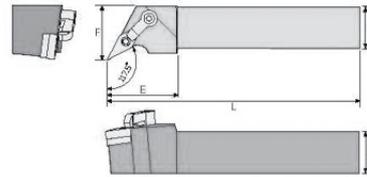
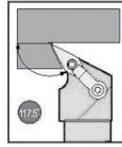
CODE	Dimensions(mm)					Insert					Parts					Price	
	A	B	L	E	F						R	L					
MVVNN-2020K16	20	20	125	34	10						•	•					
MVVNN-2525M16	25	25	150	34	12.5	VN□□ 1604□□	SMV -322	LCS -513	CP50-25	CS70-21	•	•					
MVVNN-3232P16	32	32	170	34	16					CS70-22	•	•					



TOOL HOLDERS

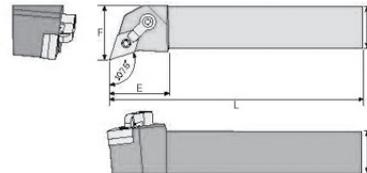
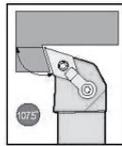
TOOL HOLDERS SERIES

MVQN 117.5°



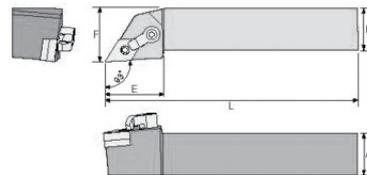
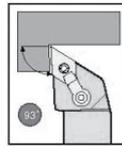
CODE	Dimensions(mm)					Insert		Parts			Stock	
	A	B	L	E	F						R	L
MVQNR/L-2020K16	20	20	125	40	25	VN□□ 1604□□	SMV -322	LCS -513	CP50-25	CS70-21	•	•
MVQNR/L-2525M16	25	25	150	40	32						•	•
MVQNR/L-3232P16	32	32	170	40	40						•	•

MDQN 117.5°



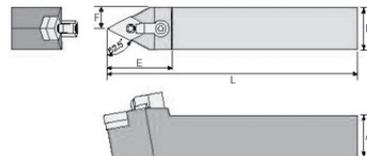
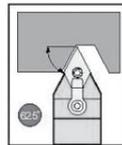
CODE	Dimensions(mm)					Insert		Parts			Stock	
	A	B	L	E	F						R	L
MDQNR/L-2020K15	20	20	125	36	25	DN□□ 1504□□	SMD -463	LCS -619	CP50-24	CS70-21	•	•
MDQNR/L-2525M15	25	25	150	36	32						•	•
MDQNR/L-3232P15	32	32	170	36	40						•	•
MDQNR/L-2020K15A	20	20	125	36	25	DN□□ 1506□□	SMD -466	LCS -619	CP50-24	CS70-21	•	•
MDQNR/L-2525M15A	25	25	150	36	32						•	•
MDQNR/L-3232P15A	32	32	170	36	40						•	•

MDJN 93°



CODE	Dimensions(mm)					Insert		Parts			Stock	
	A	B	L	E	F						R	L
MDJNR/L-2020K15	20	20	125	36	25	DN□□ 1504□□	SMD -463	LCS -619	CP50-24	CS70-21	•	•
MDJNR/L-2525M15	25	25	150	36	32						•	•
MDJNR/L-3232P15	32	32	170	36	40						•	•
MDJNR/L-2020K15A	20	20	125	36	25	DN□□ 1506□□	SMD -466	LCS -619	CP50-24	CS70-21	•	•
MDJNR/L-2525M15A	25	25	150	36	32						•	•
MDJNR/L-3232P15A	32	32	170	36	40						•	•

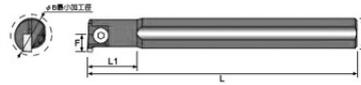
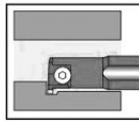
MDNN 93°



CODE	Dimensions(mm)					Insert		Parts			Stock	
	A	B	L	E	F						R	L
MDNNR/L-2020K15	20	20	125	41	10	DN□□ 1504□□	SMD -463	LCS -619	CP50-24	CS70-21	•	
MDNNR/L-2525M15	25	25	150	41	12.5						•	
MDNNR/L-3232P15	32	32	170	41	16						•	
MDNNR/L-2020K15A	20	20	125	41	10	DN□□ 1506□□	SMD -466	LCS -619	CP50-24	CS70-21	•	
MDNNR/L-2525M15A	25	25	150	41	12.5						•	
MDNNR/L-3232P15A	32	32	170	41	16						•	



INTERNAL GROOVE TOOL HOLDERS SERIES



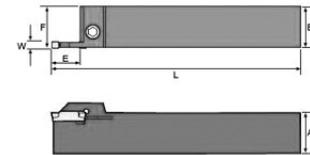
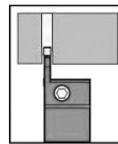
ECDG

CODE	Dimensions(mm)					Insert	Parts		Stock	
	D	F	L	L1	b					R
ECDGR/L-2520-3M	20	13	150	32	24	DGM30	CS6-60	LW050	•	
ECDGR/L-3225-3M	25	17	150	40	31				•	
ECDGR/L-4032-3M	32	22	200	50	39				•	
ECDGR/L-2520-4M	20	13	150	32	24	DGM40	CS6-60	LW050	•	
ECDGR/L-3225-4M	25	17	150	40	31				•	
ECDGR/L-4032-4M	32	22	200	50	39				•	

TOOL HOLDERS FOR EXTERNAL CUTTING OFF

EGHGR

- Can be made grooving and enlarged also, so that for deep hole processing.
- Can be made cut off & end face dressing.

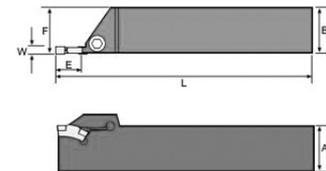
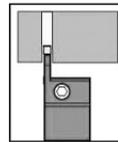


Chief Boring Bars for External Deep Turning

CODE	Dimensions(mm)				Insert	Parts		Stock	
	A x B	L	E	W					R
EGHGR-16-3M	16x16	120	20	3	GIP	CS6-50	LW040	•	
EGHGR-20-2M	20x20	120	20	2		•			
EGHGR-20-3M	20x20	120	20	3		•			
EGHGR-20-4M	20x20	120	20	4-5		•			
EGHGR-25-2M	25x25	135	20	2		•			
EGHGR-25-3M	25x25	135	20	3		•			
EGHGR-25-4M	25x25	135	20	4-5		•			
EGHGR-25-5M	25x25	135	25	5-6.4		•			

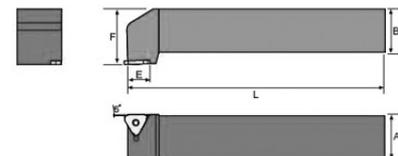
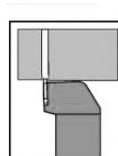
ETGDR

- Can be made grooving and enlarged also, so that for deep hole processing.
- Can be made cut off & end face dressing.



Chief Boring Bars for External Deep Turning

CODE	Dimensions(mm)				Insert	Parts		Stock	
	A x B	L	E	W					R
ETGDR-16-3M	16x16	120	18	3	TGMF	CS6-50	LW040	•	
ETGDR-20-3M	20x20	120	18	3		•			
ETGDR-20-4M	20x20	120	18	4-5		•			
ETGDR-25-3M	25x25	135	18	3		•			
ETGDR-25-4M	25x25	135	18	4-5		•			
ETGDR-25-5M	25x25	135	18	5-6.4		•			



SEMGH

CODE	Dimensions(mm)				Insert	Parts		Stock	
	A x B	L	E	W					R
SEMGHR-1616-K16	16x16	125	20	20	SMTTR 160360	CS35	T15	•	
SEMGHR-2020-K16	20x20	125	20	25				•	
SEMGHR-2525-M16	25x25	150	25	32				•	

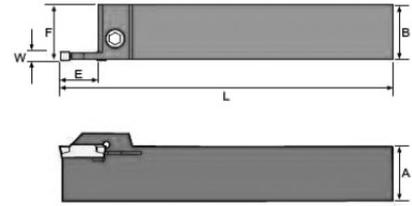
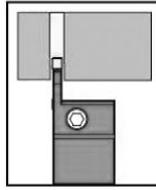


GROOVING

TOOL HOLDERS FOR EXTERNAL CUTTING OFF

EDGTR

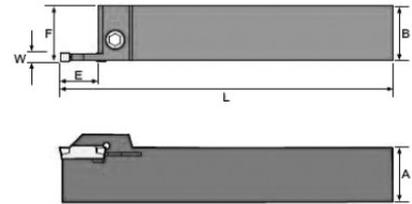
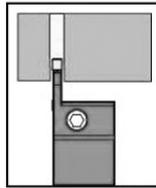
Tool Holders for External Deep Turning



CODE	Dimensions(mm)				Insert	Parts		Stock	
	A x B	L	E	W				R	L
EDGTR-10B-2D-15	10	125	15	2	DGN	CS6-50	LW040	•	•
EDGTR-12B-2D-15	12	125	15	2				•	•
EDGTR-12B-3D-15	12	125	15	3				•	•
EDGTR-16B-2D-16	16	125	16	2				•	•
EDGTR-16B-3D-16	16	125	16	3				•	•
EDGTR-20B-2D-16	20	125	15	2		•	•		
EDGTR-20B-3D-20	20	125	20	3		•	•		
EDGTR-25B-2D-15	25	140	15	2		•	•		
EDGTR-25B-3D-20	25	140	20	3		•	•		
							CS6-60	LW050	•

EGEHR

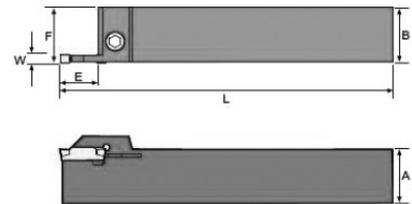
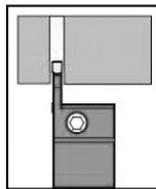
Tool Holders for External Deep Turning



CODE	Dimensions(mm)				Insert	Parts		Stock	
	A x B	L	E	W				R	L
EGEHR-20B-3D-20	20	125	20	3	MGMN	CS6-60	LW050	•	
EGEHR-25B-3D-20	25	150	20	3				•	
EGEHR-20B-4D-20	20	125	20	4				•	
EGEHR-25B-4D-15	25	150	20	4				•	
EGEHR-25B-5D-25	25	150	20	5				•	

EDGHR

Tool Holders for External Deep Turning

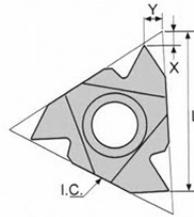


CODE	Dimensions(mm)				Insert	Parts		Stock	
	A x B	L	E	W				R	L
EDGHR-20B-3D-20	20	125	20	3	DGM	CS6-60	LW050	•	•
EDGHR-25B-3D-20	25	150	20	3				•	•
EDGHR-20B-4D-20	20	125	20	4				•	•
EDGHR-25B-4D-15	25	150	20	4				•	•
EDGHR-25B-5D-25	25	150	20	5				•	•



INSERT

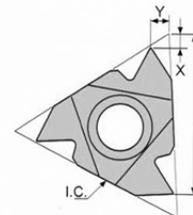
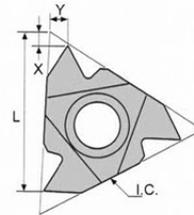
IR INSERT



Model No.	Stock	Dimension(mm)			
	EC400	Pitch(mm)	X	Y	I.C.
06IR A60	●	0.5~1.5	0.5	0.6	4.00
06IR 0.5 ISO	●	0.5	0.8	0.4	4.00
06IR 0.75 ISO	●	0.75	0.7	0.4	4.00
06IR 1.0 ISO	●	1.0	0.7	0.5	4.00
06IR 1.25 ISO	●	1.25	0.7	0.6	4.00
08IR A60	●	0.5~1.5	0.5	0.6	5.00
08IR 0.5 ISO	●	0.5	0.8	0.4	4.00
08IR 0.75 ISO	●	0.75	0.7	0.4	4.00
08IR 1.0 ISO	●	1.0	0.7	0.5	4.00
08IR 1.25 ISO	●	1.25	0.7	0.6	4.00
08IR 1.75 ISO	●	1.75	0.7	0.7	4.00

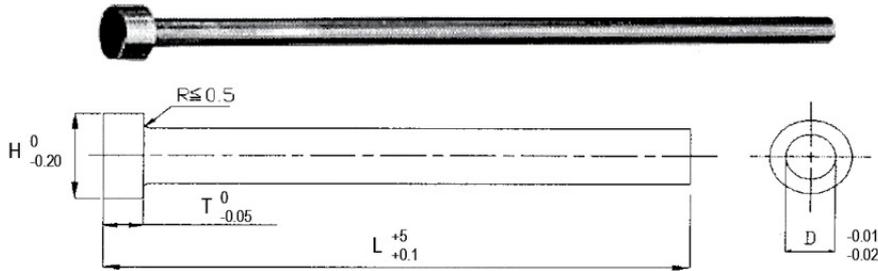
• We could provide insert for other specifications, please contact us !

ER / IR INSERT



Model No.	Stock	Dimension(mm)			
	EC400	Pitch(mm)	X	Y	I.C.
11ER/IR A60	●	0.5~1.5	0.8	0.9	6.35
11ER/IR A55	●	0.5~1.5	0.8	0.9	6.35
11ER/IR 0.5 ISO	●	0.5	0.6	0.4	6.35
11ER/IR 0.75 ISO	●	0.75	0.6	0.9	6.35
11ER/IR 1.0 ISO	●	1.0	0.7	0.7	6.35
11ER/IR 1.25 ISO	●	1.25	0.8	0.9	6.35
11ER/IR 1.50 ISO	●	1.5	0.8	1.0	6.35
11ER/IR 2.0 ISO	●	2.0	0.8	1.1	6.35
16ER/IR A55	●	0.5~1.5	0.8	0.9	9.525
16ER/IR A60	●	0.5~1.5	0.8	0.9	9.525
16ER/IR AG55	●	0.53.0	1.2	1.7	9.525
16ER/IR AG60	●	0.53.0	1.2	1.7	9.525
16ER/IR G55	●	0.753.0	1.2	1.7	9.525
16ER/IR G60	●	1.753.0	1.2	1.7	9.525
16ER/IR 0.35 ISO	●	0.35	0.8	0.4	9.525
16ER/IR 0.4 ISO	●	0.4	0.8	0.4	9.525
16ER/IR 0.45 ISO	●	0.45	0.8	0.4	9.525
16ER/IR 0.5 ISO	●	0.5	0.6	1.7	9.525
16ER/IR 0.6 ISO	●	0.6	0.6	0.6	9.525
16ER/IR 0.7 ISO	●	0.7	0.6	0.6	9.525
16ER/IR 0.75 ISO	●	0.75	0.6	0.6	9.525
16ER/IR 0.8 ISO	●	0.8	0.6	0.6	9.525
16ER/IR 1.0 ISO	●	1.0	0.7	0.7	9.525
16ER/IR 1.25 ISO	●	1.25	0.8	0.9	9.525
16ER/IR 1.5 ISO	●	1.5	0.8	1.0	9.525
16ER/IR 1.75 ISO	●	1.75	0.9	1.2	9.525
16ER/IR 2.0 ISO	●	2.0	1.0	1.3	9.525
16ER/IR 2.5 ISO	●	2.5	1.1	1.5	9.525
16ER/IR 3.0 ISO	●	3.0	1.2	1.5	9.525

• We could provide insert for other specifications, please contact us !

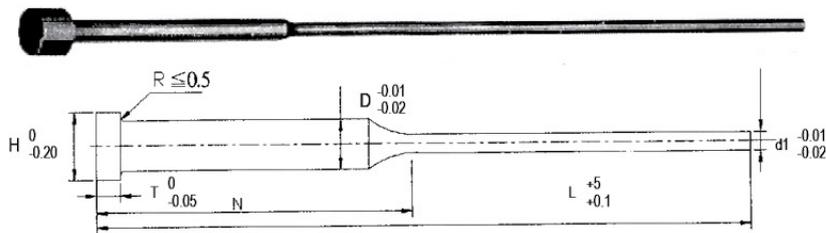


M (Material)	H (hardened) (Nitrided)	(Unit)
SKD61 H13 1.2343	(Surface) HV900 ~ (Core) HRC40 ~ 45	mm

CODE: EP61

T	H	D	L																PACKING BOX
			100	150	200	250	300	350	400	450	500	550	600	650	700	750	800		
4	6	1																100	
		1.2																	
		1.5																	
		2																	
		2.5																	
		3																	
6	7	3.5																50	
		8	4																
		9	4.5																
		5																	
		10	5.5																
8	11	6																25	
		6.5																	
		7																	
		13	7.5																
		8																	
		14	8.5																
		9																	
8	15	10																15	
		17	12																
		19	14																
		21	16																
		25	20																
		20																	

สองตอน

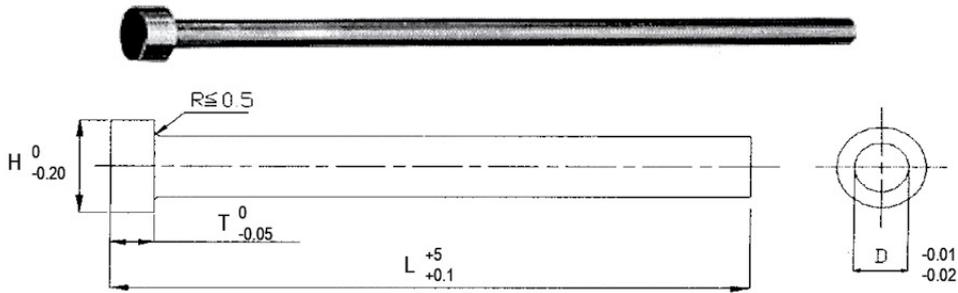


CODE: EPD

T	H	D	d1	L					PACKING BOX
				100	150	200	250	300	
				N25	N50.70	N50.70	N70.100	N70.100	
4	6	3	0.8						100
			0.9						
			1						
			1.1						
			1.2						
			1.3						
			1.4						
			1.5						
			1.6						
			1.7						
			1.8						
6	8	4	2						
			2.5						



SKD-61 เข็มกระทุ้ง HOTWORK EJECTOR PINS

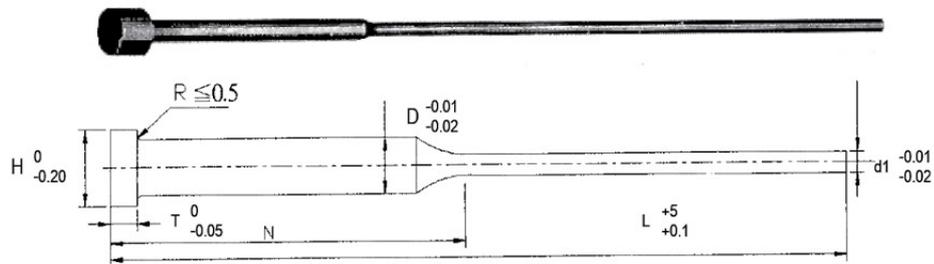


M (Material)	H (hardened)	(Unit)
SCM-415	HRC58 ~ 61	mm

CODE: EPDA

T	H	D	L																PACKING BOX	
			100	150	200	250	300	350	400	450	500	550	600	650	700	750	800			
4	6	1.0																100		
		1.5																		
		2.0																		
		2.5																		
		3.0																		
6	7	3.5															50			
		8	4.0																	
		9	4.5																	
		10	5.5																	
		11	6.0																	
8	11	6.5															25			
		7.0																		
		13	7.5															20		
		14	8.0																	
		15	8.5																	
		8	15	9.0															15	
				9.5																
				10.0																
				16	10.5															10
				17	11.0															
18	12.0																			
19	13.0															8				
20	14.0																			
21	15.0																			
8	25	20.0														4				
		25	20.0																	
		30	25.0																	

สองตอน



CODE: EPDB

T	H	D	d1	L					PACKING BOX
				100	150	200	250	300	
				N25	N50.70	N50.70	N70.100	N70.100	
4	6	3	1.0						100
			1.2						
			1.5						
			2.0						
			2.5						



SCM ไส้สังทำพิเศษ



CODE: EPDA

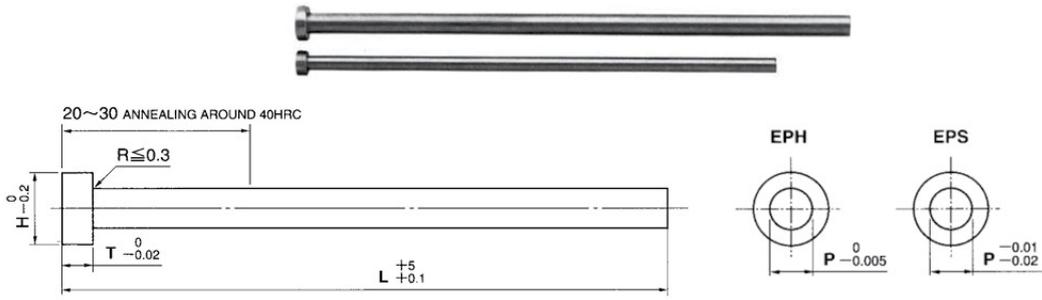
T	H	D	L													
			100	150	200	250	300	350	400	450	500	550	600	650	700	
4	6	0.8-0.9														
		1.1-1.4														
		1.6														
		1.7-1.9														
		2.1-2.4														
		2.6-2.9														
6	7	3.1-3.4														
		3.6-3.9														
		4.1-4.4														
		4.6-4.9														
		5.1-5.4														
		5.6-5.9														
6	10	6.1-6.4														
		6.6-6.9														
		6.1-6.4														
		6.6-6.9														

SKD-61 ไส้สังทำพิเศษ



CODE: EPFA

T	H	D	L														
			100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
4	6	0.8-0.9															
		1.1-1.4															
		1.6-1.9															
		2.1-2.4															
		2.6-2.9															
		3.1-3.4															
6	7	3.6-3.9															
		4.1-4.4															
		4.6-4.9															
		5.1-5.4															
		5.6-5.9															
		6.1-6.4															
6	10	6.6-6.9															
		9.5															
		10.5															
		11.0															



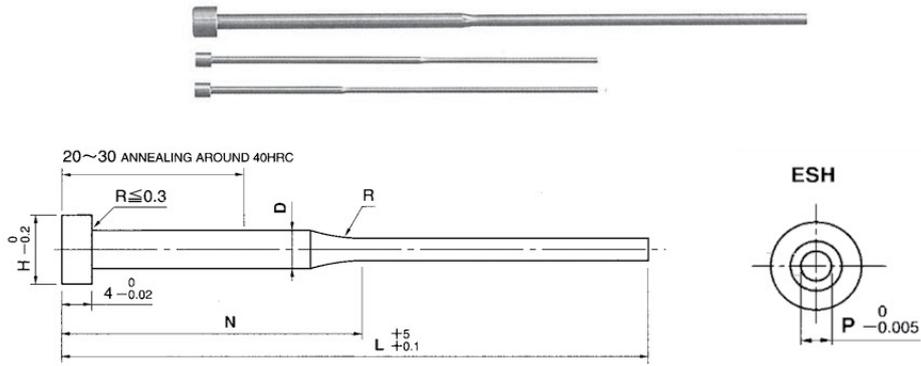
M (Material)	H (hardened)	(Unit)
SKH51	HRC59~61	mm

CODE: EPS

T	H	P	L				
			100	150	200	250	300
4	3	0.8					
		0.9					
		1.0 1.1					
		1.2 1.3 1.4					
		1.5					
	4	1.6					
		1.7 1.8 1.9					
		2					
		2.5					
		3					
6	5	3.5					
		4					
	9	4.5					
		5					
	10	5.5					
		6					
11	6.5						
	7						
8	13	8					
	15	10					
	17	12					

CODE: EPH

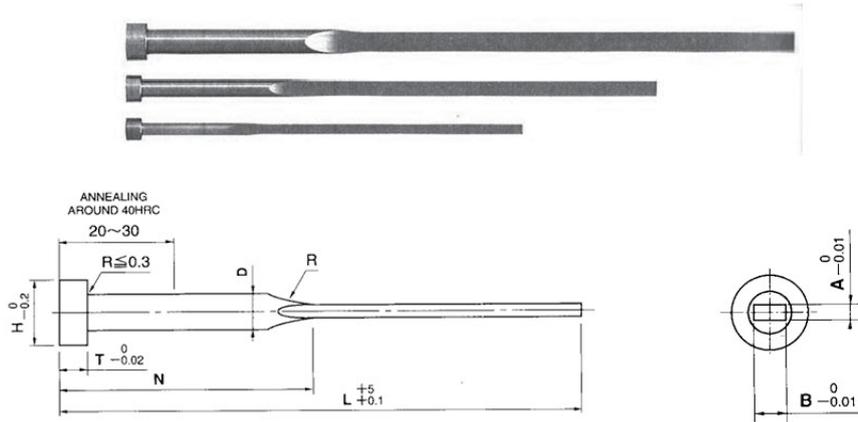
T	H	P	L				
			100	150	200	250	300
4	2	0.2					
		0.3					
		0.4					
	3	0.5					
		0.6					
		0.7					
		0.8					
		0.9					
		1					
		1.1					
		1.2 1.3 1.4					
		1.5					
		1.6					
	4	1.7 1.8 1.9					
		2					
		2.1					
		2.2 2.3 2.4					
	5	2.5					
		2.6					
		2.7 2.8 2.9					
	6	3					
		3.1					
		3.2 3.3 3.4					
	7	3.5					
		3.6					
		3.7 3.8 3.9					
		4					



M (Material)	H (hardened)	(Unit)
SKH51	HRC59~61	mm

CODE: ESH

T	H	D	L50	L100	L100	L150	L200	L250
			N15	N25	N50	N50 N70	N70 N100	N105
2	0.3	1						
3		1.5						
2	0.4	1						
3		1.5						
2	0.5	1						
3		1.5						
2	0.6	1						
3		1.5						
3	0.7	1.5						
4		2						
3	0.8	1.5						
4		2						
5		2.5						
3	0.9	1.5						
4		2						
5		2.5						
3	1.0	1.5						
4		2						
5		2.5						
6		3						
4	1.1	2						
5		2.5						
6		3						
4	1.2	2						
5		2.5						
6		3						
4	1.3 1.4	2						
5		2.5						
6		3						
4	1.5	2						
5		2.5						
6		3						
4	1.6	2						
5		2.5						
6		3						
4	1.6 1.7	2						
5		2.5						
6		3						
5	1.8	2.5						
6		3						
5	1.9	2.5						
6		3						
5	2.0	2.5						
6		3						
5	2.1	2.5						
6		3						
6	2.2 2.3	3						
6	2.4 2.5	3						



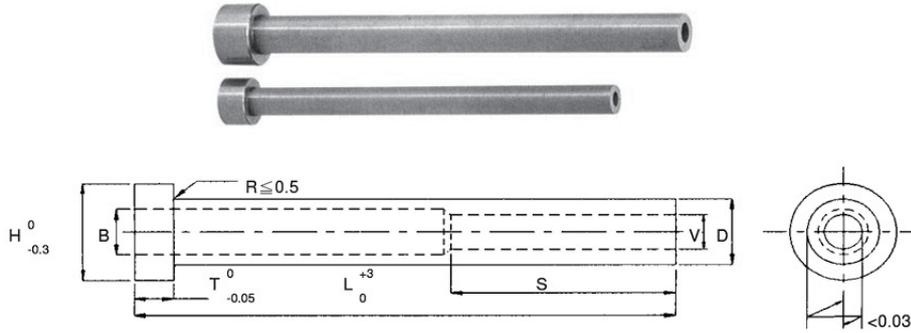
M (Material)	H (hardened)	(Unit)
SKH51	HRC59~61	mm

CODE: EPS

A	B	D	H	T	100L	150L	200L	250L	300L
					N40	N50	N75	N100	N125
0.8	3	3.5	7	4					
1									
1.2									
1.5									
0.8	3	4	8	6					
1									
1.2									
1.5									
0.8	4	5	9	6					
1									
1.2									
1.5									
1.8									
2									
0.8	5	6	10	6					
1									
1.2									
1.5									
1.8									
2									
0.8	6	7	11	6					
1									
1.2									
1.5									
1.8									
2									
0.8	6	8	13	8					
1									
1.2									
1.5									
1.8									
2									
0.8	8	10	15	8					
1									
1.2									
1.5									
1.8									
2									
0.8	10	12	17	8					
1									
1.2									
1.5									
1.8									
2									



SKD 61 ปลอกกระทุ้ง EJECTOR SLEEVES



V _{H7}	
2.0	+0.01 0
2.5	
3.0	
3.5	+0.012 0
4.0	
4.5	
5.0	+0.015 0
6.0	
7.0	
8.0	+0.018 0
9.0	
10.0	
11.0	+0.018 0
12.0	

M (Material)	H (hardened) (Nitrided)	(Unit)
SKD61 H13 1.2343	(Surface) HV900 ~ (Core) HRC40 ~ 45	mm

CODE: EP61

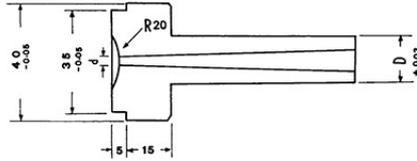
T	H	D	V	L											
				100	110	120	130	140	150	160	170	180			
6	8	4	2.0												
		4.5	2.5												
	9	5	2.0												
			2.5												
			3.0												
	10	5.5	2.5												
			2.0												
		6	2.5												
			3.0												
			3.5												
	11	7	4.0												
			3.0												
3.5															
4.0															
8	13	5.0													
		6.0													
		4.0													
	15	10	6.0												
			8.0												
			8.0												
17	12	8.0													

T	H	D	V	L												
				190	200	210	220	230	240	250	275	300				
6	8	4	2.0													
		4.5	2.5													
	9	5	2.0													
			2.5													
			3.0													
	10	5.5	2.5													
			2.0													
		6	2.5													
			3.0													
			3.5													
	11	7	4.0													
			3.0													
3.5																
4.0																
8	13	5.0														
		6.0														
		4.0														
	15	10	6.0													
			8.0													
			8.0													
17	12	8.0														



หัวฉีด

SPRUE BUSHINGS



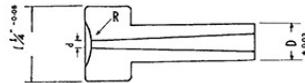
CODE: SBB

CODE: SBB

CODE	D	L	องศา	BAHT
1365B	1/2	65mm	4°	
1380B		80mm		
1390B		90mm		
13100B		100mm	3°	
13110B		110mm		
13120B		120mm		
1665B	5/8	65mm	4°	
1680B		80mm		
1690B		90mm		
16100B		100mm	3°	
16110B		110mm		
16120B		120mm		
16140B	140mm			
2065B	3/4	65mm	4°	
2080B		80mm		
2090B		90mm		
20100B		100mm	3°	
20110B		110mm		
20120B		120mm		
20140B		140mm		
20170B		170mm	2-1/2°	

CODE	D	L	องศา	BAHT
1265	12	65mm	4°	
1280		80mm		
1290		90mm		
12100		100mm	3°	
12110		110mm		
1665		65mm		4°
1680	80mm			
1690	90mm			
16100	16	100mm	3°	
16110		110mm		
16120		120mm		
16140		140mm		
2065	20	65mm	4°	
2080		80mm		
2090		90mm		
20100		100mm	3°	
20110		110mm		
20120		120mm		
20140		140mm		
20170		170mm		2-1/2°

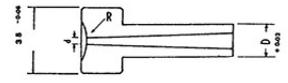
SPRUE BUSHINGS



CODE: SBB

CODE	D	L	องศา	BAHT
416A	1/2	1-3/4	4°	
420A		2"	4° (6°)	
422A		2-1/4	4°	
424A		2-1/2		
426A		2-3/4		
430A		3"		
434A		3-1/2	3°	
440A		4"		
444A		4-1/2		
524A	5/8	2-1/2	4°	
530A		3"		
534A		3-1/2	3°	
540A		4"		
544A		4-1/2		
550A		5"		

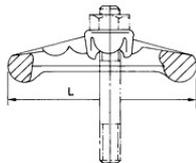
SPRUE BUSHINGS



CODE: SBF

CODE	D	L	องศา	BAHT
424F	1/2"	2-1/2	4°	
430F		3"		
434F		3-1/2	3°	
440F		4"		
524F		2-1/2		
530F	/8"	3"	4°	
534F		3-1/2		
540F		4"	3°	
544F		4-1/2		

MOLD CLAMP



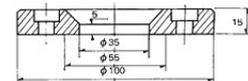
CODE: MC

CODE	D	BAHT
MC101	12mm	
MC102	16mm	
MC103	20mm	

LOCATING RINGS (แหวนรองหัวฉีด)



TOLERANCES 公差
 内孔 +0.05 外径 -0.10
 厚度 ±0.50

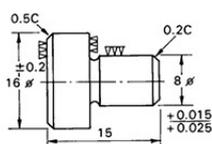


CODE: LC

CODE	D	หนา	BAHT
LC101	100mm	10mm	
LC102	100mm	15mm	
LC103	120mm		
LC104	150mm		
LC105	4"		

STOP PINS

---- /PC



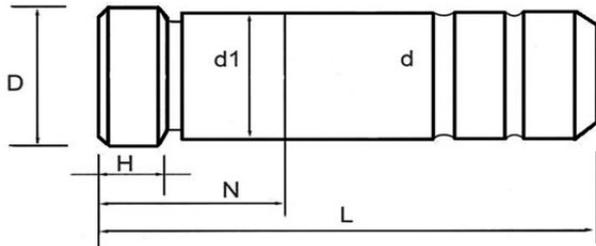


GUIDE PIN TYPE A , GPA

ไกด์พิน แบบ A

materl : scm - 415

hardness : hrc 60 + -1



DIMENSIONS

d		d1		D		H	
12	-0.005	12	-0.005	15	-0.2	5	-0.2
15	-0.020	15	-0.020	20		6	
20	-0.008	20	-0.008	25		8	
25	-0.023	25	-0.023	30			
30	-0.010	30	-0.010	35		10	
35		35		40			
40	-0.025	40	-0.025	45			

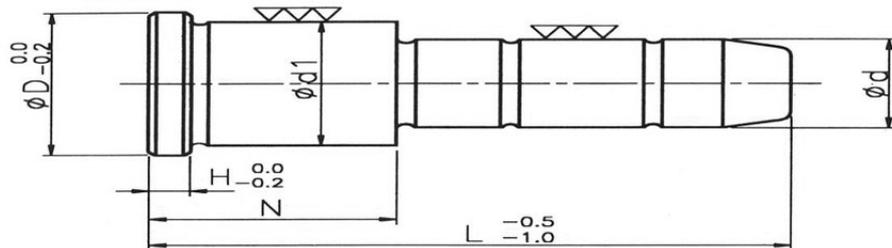
L	-50	55-35	100-130	135-160	155-220	225
N	15	20	25	30	35	40

L	d12	d16	d18	d20	d25	d30	d35	d40	d45	d50	d60
50											
55											
65											
75											
85											
100											
120											
130											
150											
170											
180											
200											
220											
250											
300											
350											
400											
450											
500											
550											
600											
650											
600											



GUIDE PIN B – TYPE (GPB)

CODE: SBB



MATERIAL : SUJ 2

Dimensions

HARDNEES : HRC 60 +3

Code	A		d1		D	H	L
	B	d	Size	Tolerance			
GPB	16	-0.016 -0.027	25	+0.021 +0.008	30	6	50-200
	20	-0.020 -0.033	30	+0.025 +0.009	35	8	50-300
	25		40		50-400		
	30	-0.025 -0.041 -0.040	42	+0.030 +0.011	47	10	90-500
	35		48		54		
	40		55		61		
	50	-0.055	70		76	15	130-500
	60		80		86		
	70		90		96		150-600

วิธีการสั่งซื้อ

GPB 20 X 200 X 60 = 20

d x L x N = QTY.

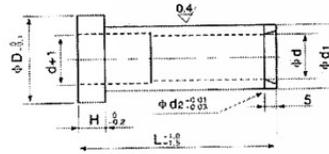
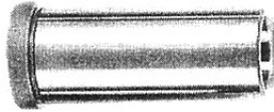
หมายเหตุ

ขนาดและจำนวนทำตามสั่ง

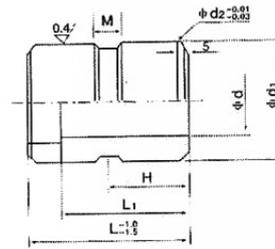
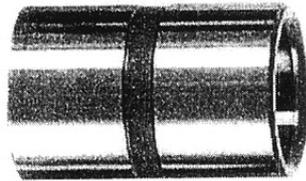


GUIDE BUSH

GBA



GBB



ขนาด	d		d1		D	H	M
	ขนาด	Tolerance	ขนาด	Tolerance			
10	10	+0.010 +0.015	14	+0.01 +0.015	18	5	4
12	12	+0.01 +0.02	18				
16	16	+0.01 +0.02	25	+0.015 +0.020	30	6	5
20	20						
25	25	+0.01 +0.02	35	+0.020 +0.025	40	8	6
30	30						
35	35	+0.15 +0.25	48	+0.025 +0.030	54	10	8
40	40						
50	50	+0.15 +0.25	55	+0.025 +0.030	61	12	9
50	50						
60	60	+0.15 +0.25	70	+0.025 +0.030	76	15	11
60	60						

ขนาด \ ความยาว	16	20	25	30	35	40	50	60	40	80
20										
25										
30										
35										
40										
50										
60										
70										
80										
90										
100										
110										
120										
130										
140										
150										
160										
170										
180										



MOLD DATE INDICATOR



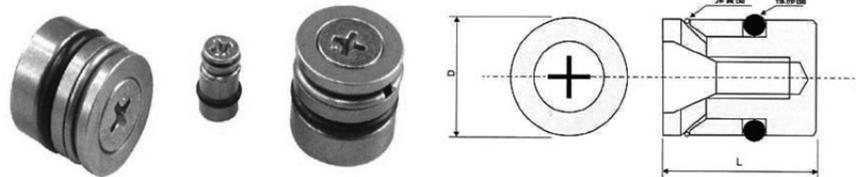
年月合併	年	月	月	日	日0-3	日0-9
No. 1 เดือน + ปี	No. 2 ปี	No.3 เดือน	No.4 เดือน	No.5 วัน	No.6 วัน 0-3	No.7 วัน 0-9
班	A-L	全空白 (12段)	RM-1	RM-2	RM-3	RM-4
No. 8	No. 9	No. 10	No. 11	No. 12	No. 13	No. 14
			ขนาดพิเศษสามารถสั่งทำได้			
RM-5	RM-6	RM-7				
No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	No. 21

D	4	6	8	10	12	16
L	6	8	10	10	12	14
BAHT	一般指示					
	年月合併					
	環保章					

★ 環保章外徑20mm長度為16mm

Product	Code	Material	Hardened	Unit
日期章	EMTA (NO.1~10)	SUS420	HRC50 +/- 2	mm
環保章	EMTB (NO.11~17)	SUS420	HRC50 +/- 2	mm

MOLD DATE INDICATOR



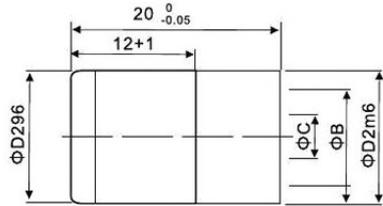
ขนาด: mm

D	Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø20	Ø25	Ø30
L	10	10	11	12	13	14	18	19	19
BAHT									

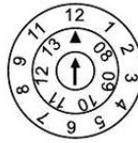


MOULD COMPONENTS

แบบ 3 ชั้น

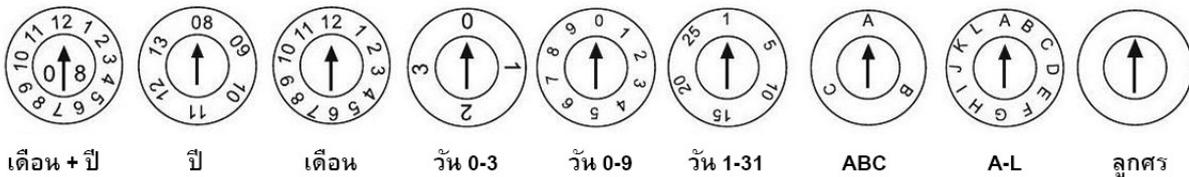
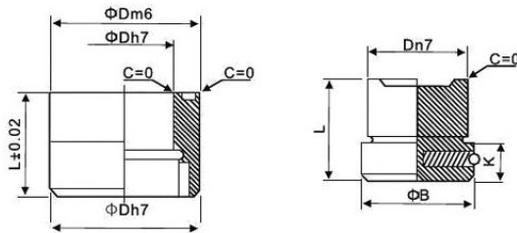


ปี + เดือน



CODE	D	L	 Year + Month	 (0-3)+(0-9)	xx
D1	6	10	400	400	
	8	10	400	400	
	10	12	400	400	
	12	12	400	400	
	16	14	480	480	

แบบถอดได้



CODE	D	d	L	DTBB	DTS	DTD	DTF	DTE	DTG	DTAC	DTAL	DTN
D1	4	1.9	8	DTBB04	DTC04	DTD04	DTF04	DTE04	DTG04	DTAC04	DTAL04	DTN04
	5	2.3	8	DTBB05	DTC05	DTD05	DTF05	DTE05	DTG05	DTAC05	DTAL05	DTN05
	6	2.8	8	DTBB06	DTC06	DTD06	DTF06	DTE06	DTG06	DTAC06	DTAL06	DTN06
	8	4	10	DTBB08	DTC08	DTD08	DTF08	DTE08	DTG08	DTAC08	DTAL08	DTN08
	10	5	12	DTBB10	DTC10	DTD10	DTF10	DTE10	DTG10	DTAC10	DTAL10	DTN10
	12	6.5	14	DTBB12	DTC12	DTD12	DTF12	DTE12	DTG12	DTAC12	DTAL12	DTN12
	16	10	14	DTBB16	DTC16	DTD16	DTF16	DTE16	DTG16	DTAC16	DTAL16	DTN16
	20	12	16	DTBB20	DTC20	DTD20	DTF20	DTE20	DTG20	DTAC20	DTAL20	DTN20



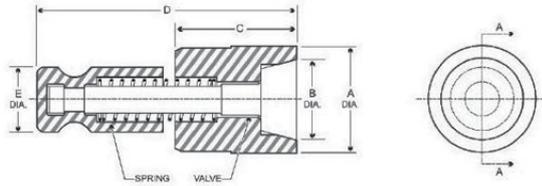
AIR VALVES

AIR VALVES

CODE : APV

Material : 420 Stainless

: HRC50-55

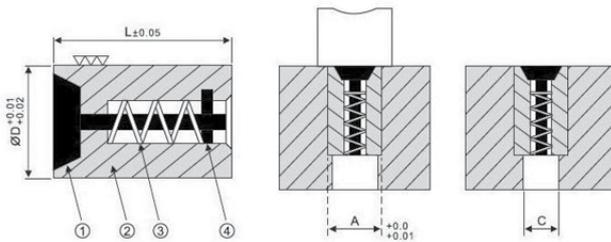


CODE	A	B	C	D	E	
APV-08	8	6.6	11	24	6	
APV-12	12	9.7	18	34	8	
APV-18	18	14.8	22	45.5	12	

AIR JET VALVES

CODE : AJV

: SUS416



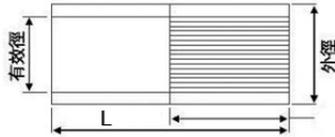
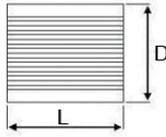
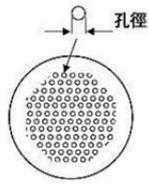
CODE	D \varnothing $\begin{matrix} +0.02 \\ -0.00 \end{matrix}$	L	A \varnothing $\begin{matrix} +0.00 \\ -0.01 \end{matrix}$	C \varnothing	
APV-06	6	12	6	4	
APV-08	8	15	8	4.5	
APV-10	10	20	10	6	
APV-12	12	25	12	8	
APV-16	16	30	16	10	
APV-20	20	30	20	12	
APV-25	25	30	25	15	
APV-30	30	30	30	20	



GAS VENTS

GAS VENTS

ไคมิตเตอร์รู



Fe	Cu			
	5 ~ 15	10 max	130 ~ 190	11



ไคมิตเตอร์รู 0.5 mm													
CODE	50400	50610	56015	50810	50815	51010	51015	51210	51215	51415	51615	52015	52815
D	4	6	6	8	8	10	10	12	12	14	16	20	28
จำนวนรู	39	61	61	89	89	20	20	200	200	340	340	550	970
-	55	40	40	35	35	34	34	31	31	35	32	33	30
ยาว	10	10	15	10	15	10	15	10	15	15	15	15	15
ไคมิตเตอร์รู	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

ไคมิตเตอร์รู 0.3 mm												
CODE	30510	30515	30610	30615	30810	30815	31010	31015	31210	31215	31415	
D	5	5	6	6	8	8	10	10	12	10	14	
จำนวนรู	89	89	89	89	20	20	340	340	340	340	550	
-	30	30	29	29	28	28	31	31	25	31	27	
ยาว	10	15	10	15	10	15	10	15	10	15	15	
ไคมิตเตอร์รู	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	

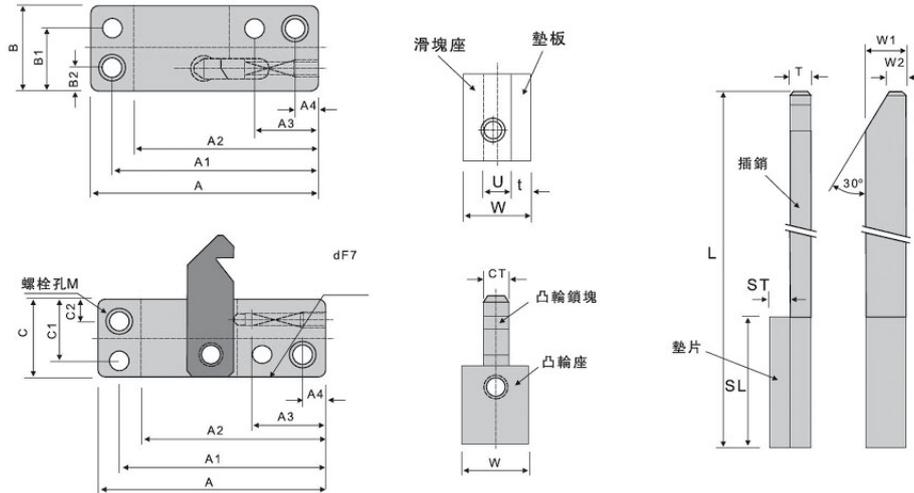
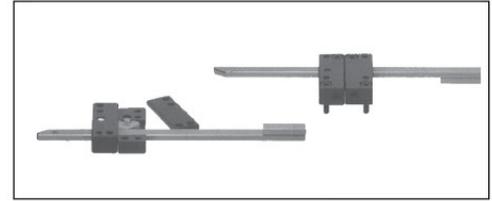
ไคมิตเตอร์รู 0.1 mm						
CODE	W100110	W100310	W100510	W100610	W100810	W101010
D	1	3	5	6	8	10
จำนวนรู	7	76	76	76	300	600
-	19	19	19	19	19	19
ยาว	10	10	10	10	10	10
ไคมิตเตอร์รู	10	10	3	3	3	3
	0.6	2	2	2	4	6
	0.1	0.1	0.1	0.1	0.1	0.1

ไคมิตเตอร์รู 0.05 mm											
CODE	W050110	W050310	W050510	W050610	W050810	W050010	W030110	W030210	W030310	W030410	W030510
D	1	3	5	6	8	10	1	2	3	4	5
จำนวนรู	43	400	400	400	1600	3600	70	280	630	1200	1200
-	25	25	25	25	25	25	25	25	25	27	27
ยาว	10	10	10	10	10	10	10	10	10	10	10
ไคมิตเตอร์รู	10	10	3	3	3	3	10	10	10	3	3
	0.65	2	2	2	4	6	0.5	1	1.5	2	2
	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05



PARTING LOCK SET

PARTING LOCK SETES



M	SKD61	SKD61	SKD11	SKD11	SK	S45C	S45C
H	50~55HRC	50~55HRC	58~HRC	58~HRC	50~HRC	45~HRC	-

	① ②															RL	RT	RW
	A	A1	A2	A3	A4	B	B1	B2	C	C1	C2	W	U	M	d			
LLJS	68	61.5	55	19	7	26	19	7	24	17	7	20	8	M6	Ø6	18	7	11
LLJM	88	79	70	24	9	38	29	9	30	21	9	30	12	M8	8	20	9	16
LLJL	104	93	82	27	11	48	37	11	38	27	11	75	20	M10	10	24	12	26

④					⑤		⑥				⑦			A		
CL	CP	CA	CT	Cd	t	W1	W2	T	L	SW	ST	SL				
45	28	16	7.5	8	6	13	5.9	7	250	13	6.5	40	CB6-25	MSTM6-30	WHH6-15	
64	41	20	10	10	7	16	8	10	300	16	8	50	CB835	MSTM8-35	WHH8-20	
84	53.6	25	18	13	8	20	9.5	15.5	350	20	10.2	55	CB10-50	MSTM10-50	WHH8-20	



MAGNET LOCK SETS

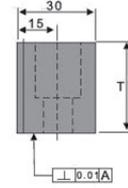
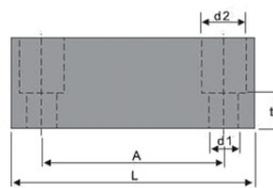
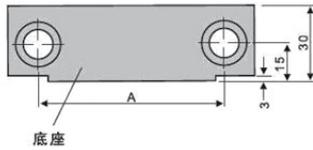
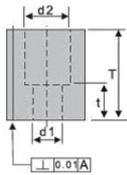
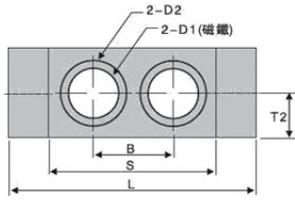
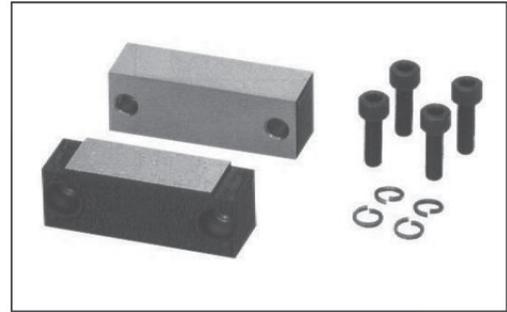
MAGNET LOCK SETS

CODE : MLS

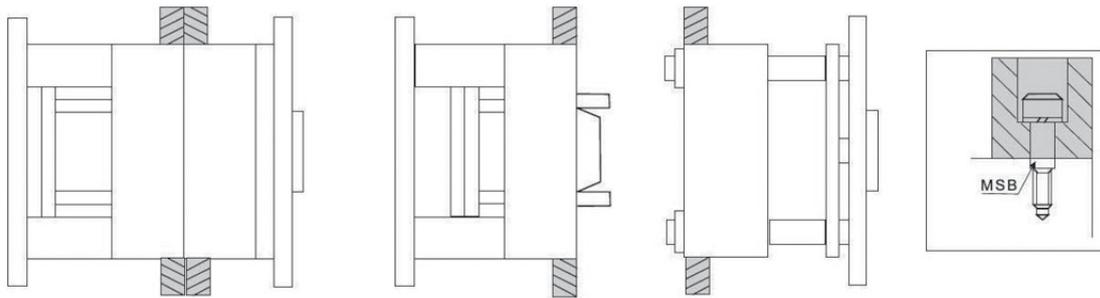
Material : SS400

: MLK40.100

: MLK80.100



CODE		A	B	S	L	T	t	D1	D2	d1	d2	ชุดอะไหล่	
MLS-40	392.3N {40kgf}	63	25	60	80	25	12	18	22	9	14	CB8-25 (4ตัว/ชุด)	
MLS-80	784.5N {80kgf}												
MLS-100	980.7N {100kgf}	100	39	79	126	40	15	30	34	11	18	CB10-30 (4ตัว/ชุด)	
MLS-200	1961.3N {200kgf}												





MAGNET LOCK SETS

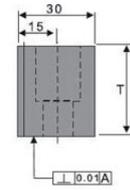
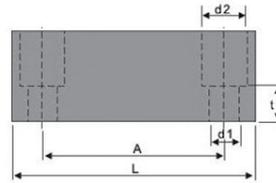
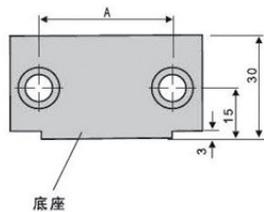
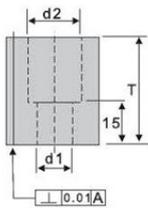
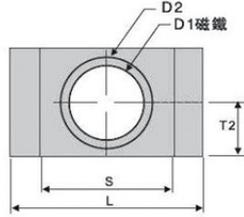
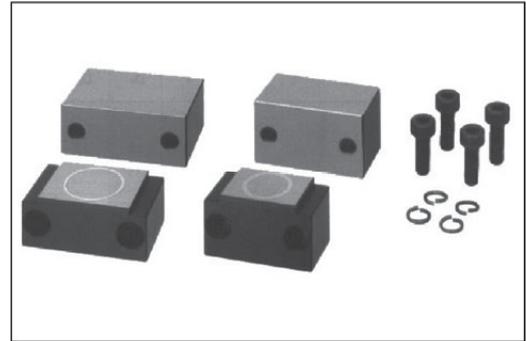
MAGNET LOCK SETS (COMPACT TYPE)

CODE : MLSX

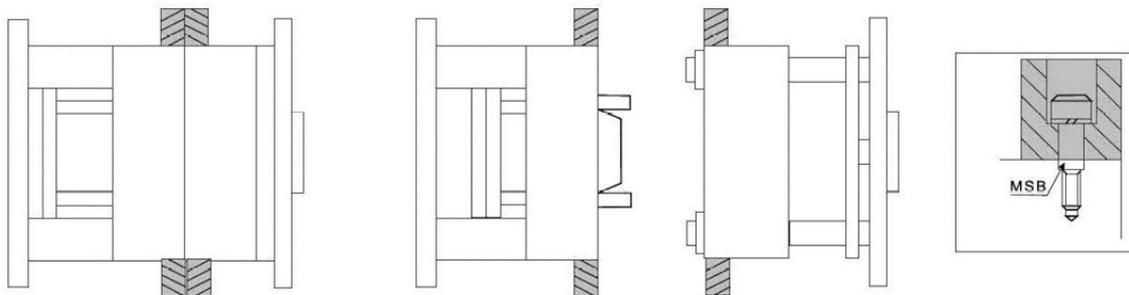
Material : SS400

: MLKS20-50

: MLKS40.100



CODE		A	S	L	T	D1	D2	d1	d2	BAHT
MLSX-40	196.1N {20kgf}	36	36	50	25	17.5	22	6.6	11	
MLSX-80	392.2N {40kgf}									
MLSX-100	490.3N {50kgf}	52	52	70	40	29.5	34	9	14	
MLSX-200	980.6N {100kgf}									

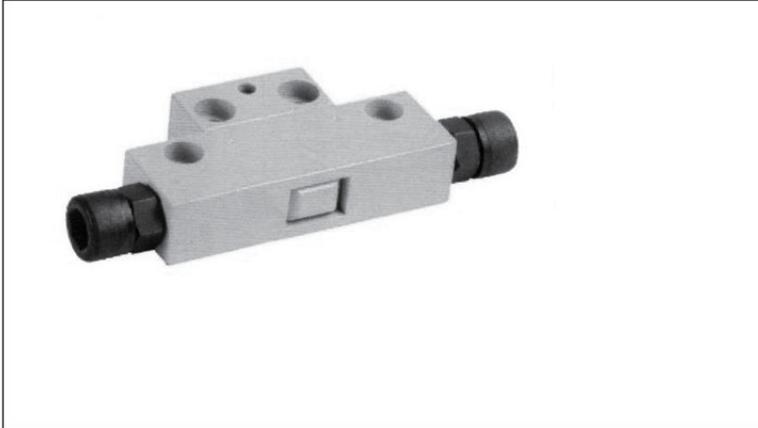




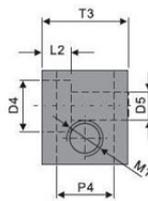
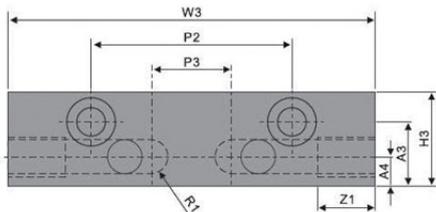
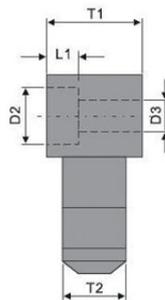
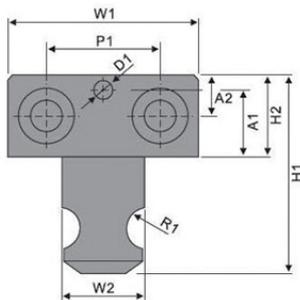
SLIDE LOCK

SLIDE LOCK (PL TYPE)

CODE : MLS
 : SS400
 : MKL40.100
 : MKL80.100



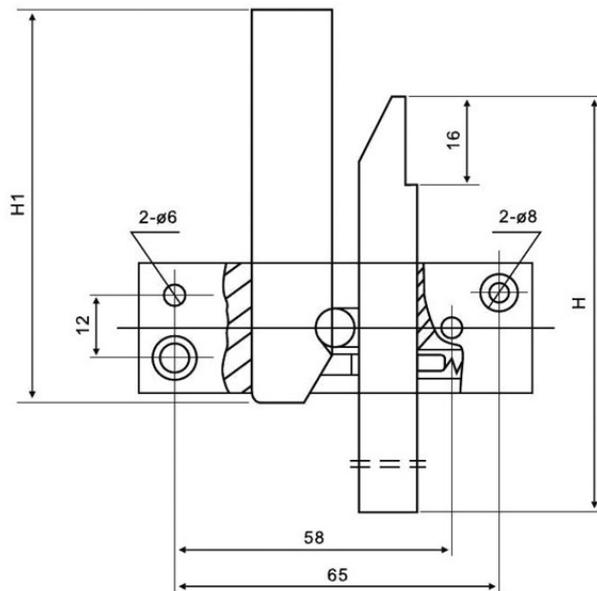
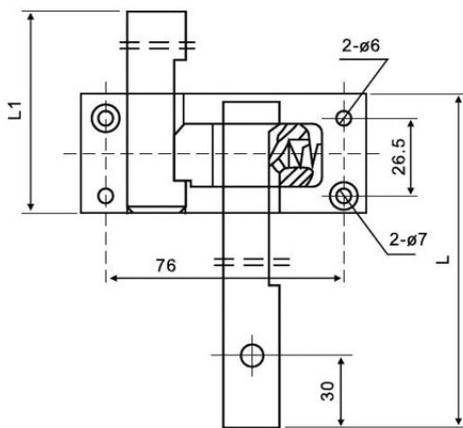
	GRLA	GRLB
A1	20	6
A2	12.5	12
A3	23	12
A4	11	10
D1	6	5
D2	17	10.5
D3	10	6.5
D4	14	11
D5	10	6.5
H1	62.5	48
H2	25	20
H3	33	28
L1	10	6.5
L2	10	6.5
M1	M3514*2.070	M12*17.5
P1	35	25
P2	70	60
P3	26	18
P4	20	12.5
R1	R6.5	R4.25
T1	30	20.5
T2	19.5	12
T3	30	20.5
W1	60	40
W2	25.5	17.5
W3	127.5	86
Z1	21	20
XXXX		





PARTING LOCK SET

PARTING LOCK SET



CODE	L	L1	
WGP-2299	140	110	
WGP-3000	210	110	
WGP-3001	260	140	

CODE	L	L1	
WGP-3002	110	95	
WGP-3003	150	130	
WGP-3004	240	180	



TAPER LOCK SETS



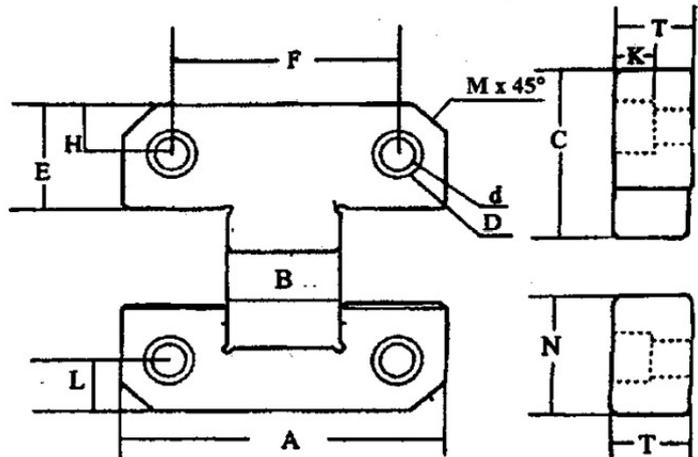
CODE: S02 D-M-E

SIZE : mm				
CODE	E	L	W	D
S02-50	--	50	25	8
S02-100	60	100	30	10
S02-150	100	150	40	13

SIZE : inch				
CODE	E	L	W	D
S02-20A	--	1.980	.999	.312
S02-40A	2.500	3.980	1.249	.375
S02-60A	4.000	5.980	1.499	.500

STRAIGHT SIDE LOCK SETS

材質: YK30
 硬度: HRC58° - 60°



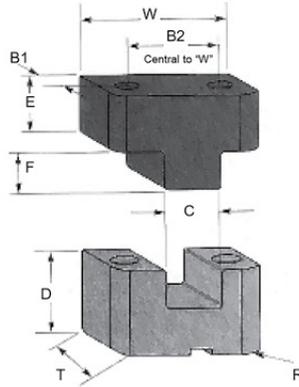
CODE: S01 D-M-E

SIZE : inch														
CODE	A	B	C	D	d	E	F	H	L	M	T	K	N	BAHT
S01-15A	1.5000	.5000	1.180	.406	.281	.870	.938	.437	.281	.19	.620	.312	.870	
S01-20A	2.0000	.6800	1.180	.406	.281	.870	1.250	.437	.375	.19	.620	.312	.870	
S01-30A	3.0000	1.0000	1.910	.593	.406	1.360	2.250	.688	.688	.19	.745	.438	1.370	
S01-40A	4.0000	1.3750	2.640	.593	.406	1.870	2.750	.875	.875	.50	.745	.438	1.870	
S01-50A	5.0000	1.7500	2.640	.781	.531	1.870	3.500	.875	.875	.50	1.120	.563	1.870	

SIZE : inch														
CODE	A	B	C	D	d	E	F	H	L	M	T	K	N	BAHT
S01-50	50	17	30	10.5	6.5	21.5	34	11	11	5	16	8	21.5	
S01-75	75	25	50	16.5	10.5	36	50	18	18	5	19	12	36	
S01-100	100	35	65	16.5	10.5	45	70	22	22	5	19	12	45	
S01-125	125	45	65	16.5	10.5	45	84	22	22	5	25	12	45	

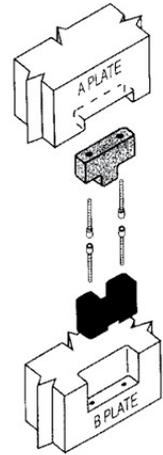


TL TOP LOCKS – TL TYPE



MALE
 8620 STEEL
 HARDENED 54-56 HC
 BLACK OXIDE FINISH

FEMALE
 0-6 STEEL
 HARDENED 60-62 HC
 ARMORCLAD 70-72 RC

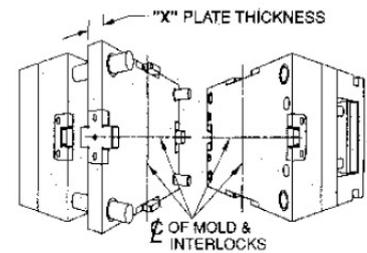
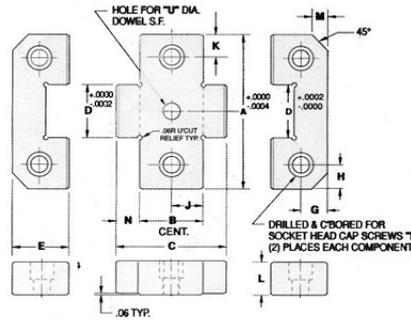
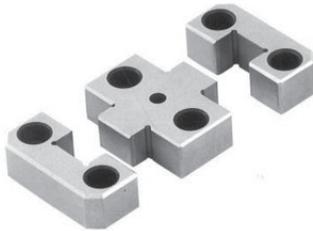


CODE: S02 D-M-E

inch PCS

CODE	W +.0000 -.0005	T +.000 -.002	F +.000 -.010	總高度	C .0002	B1 +.010 -.010	B2 +.010 -.010	D +.000 -.002	R	E +.000 -.002	SHCS		BAHT
											MALE (2)	FEMALE (2)	
S05-125	1.2500	.625	.375	1.125	.4380	.312	.875	.625	.26	.500	6-32 X 1/2	6-32 X 5/8	
S05-150	1.5000	.875	.500	1.625	.5000	.437	1.000	.875	.26	.750	8-32 X 3/4	8-32 X 3/4	
S05-200	2.0000	1.000	.625	1.875	.7500	.500	1.375	1.125	.38	.750	10-32 X 3/4	10-32 X 1	
S05-300	3.0000	1.125	.750	2.250	1.1250	.562	2.250	1.500	.51	.750	1/4-20 X 3/4	1/4-20 X 1-1/2	

X-STYLE STRAIGHT SIDE LOCKS



CODE: S03 D-M-E

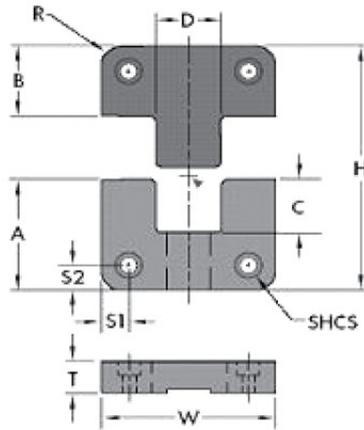
inch

CODE	X	A NOMINAL	B	C	D NOMINAL	E	F	G	H	J	K	L	M	N	U DIA.	BAHT
S03-1501	.875	1.5000	.850	1.470	.5000	.870	1/4-20 X 3/4	.281	.281	.425	.281	.620	.19	.310	.2500 (1/4 DIA. X 1" LG. DWL.)	
S03-1502	1.375		1.350	1.970						.675						
S03-2001	.875	2.0000	.850	1.470	.6800	.870	1/4-20 X 3/4	.375	.375	.425	.375	.620	.19	.310	.2500 (1/4 DIA. X 1" LG. DWL.)	
S03-2002	1.375		1.350	1.970						.675						
S03-3001	.875	3.0000	.850	1.950	1.0000	1.370	3/8-16 X 1	.688	.375	.425	.375	.745	.19	.550	.3750 (3/8 DIA. X 1-1/4 LG. WL.)	
S03-3002	1.375		1.350	2.450						.675						
S03-4001	1.375	4.0000	1.350	2.890	1.3750	1.870	3/8-16 X 1	.875	.625	.675	.625	.745	.50	.770	.3750 (3/8 DIA. X 1-1/4 LG. WL.)	
S03-4002	1.875		1.850	3.390						.925						
S03-5001	1.375	5.0000	1.350	2.890	1.7500	1.870	1/2-13 X 11/4	.875	.750	.675	.750	1.120	.50	.770	.5000 (1/2 DIA. X 2" LG. DWL.)	
S03-5002	1.875		1.850	3.390						.925						

CODE	X	A NOMINAL	B	C	D NOMINAL	E	F	G	H	J	K	L	M	N	U DIA.	BAHT
S03-4026	26.5	40	26	43	12	21.5	M6-1 X 20	11	8	13	8	16	5	8.5	6H7 (6 DIA. X 25 LG. DWL)	
S03-4036	36.5		36	53						18						
S03-5026	26.5	50	26	43	17	21.5	M6-1 X 20	11	8	13	8	16	5	8.5	6H7 (6 DIA. X 25 LG. DWL)	
S03-5036	36.5		36	53						18						
S03-7526	26.5	75	26	51	25	36	M10-1.5 X 25	18	12.5	13	12.5	19	5	14	10H7 (10 DIA. X 30 LG. DWL)	
S03-7536	36.5		36	61						18						
S03-10036	36.5	100	36	71	35	45	M10-1.5 X 25	22	15	18	15	19	5	20	10H7 (10 DIA. X 30 LG. DWL)	
S03-10046	46.5		46	81						23						
S03-12536	36.5	125	36	71	45	45	M10-1.5 X 30	22	20.5	18	20.5	25	5	20	12H7 (12 DIA. X 30 LG. DWL)	
S03-12546	46.5		46	81						23						



SIDE LOCKS



MALE
 HRC: 56°-58°
 BLACK OXIDED

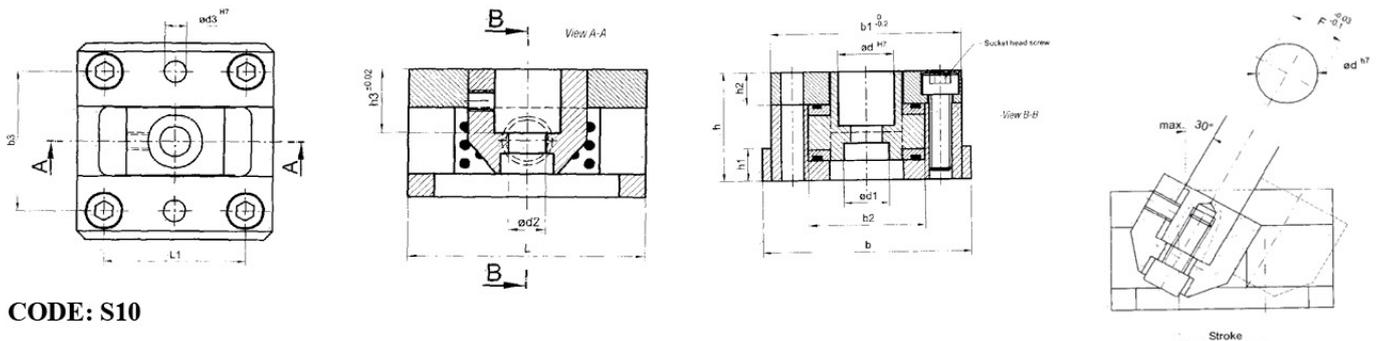
FEMALE
 HRC: 50°-55°
 TITANIUM NITRIDE
 COATED (80HRC)

CODE: S04

inch

CODE	W +.0000 -.0004	T +.000 -.002	A -.000 +.002	B +.000 -.002	C	D .0002 TOTAL	H +.000 -.004	R	S1/S2 +.01 -.01	SHCS	BAHT
S04-100	1.000	.375	1.125	.875	.53	.500	2.000	.187	.250	#10-32X1/2	
S04-125	1.250	.490	1.125	.875	.66	.500	2.000	.187	.250	#8-32X5/8	
S04-150	1.500	.500	.875	.875	.56	.563	1.750	.187	.250	#8-32X5/8	
S04-200	2.000	.500	1.375	.875	.66	.750	2.250	.187	.312	#10-32X5/8	
S04-300	3.000	.750	1.875	.875	1.13	1.250	2.750	.250	.375	1/4-20X3/4	
S04-400	4.000	1.000	2.375	1.375	1.25	1.500	3.750	.500	.500	3/8-16X1	
S04-500	5.000	1.250	2.875	1.375	1.63	2.000	4.250	.500	.625	1/2-13X1-1/4	
S04-600	6.000	1.500	2.875	1.375	1.75	2.500	4.250	.500	.625	1/2-13X1-1/2	

BOLT GUIDE



CODE: S10

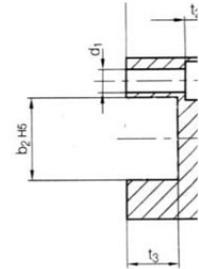
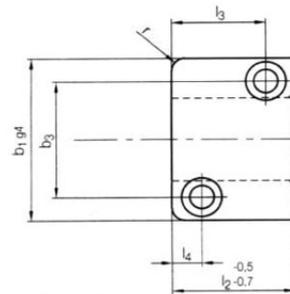
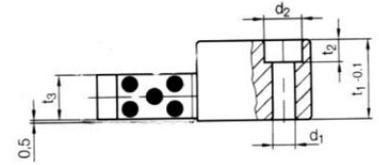
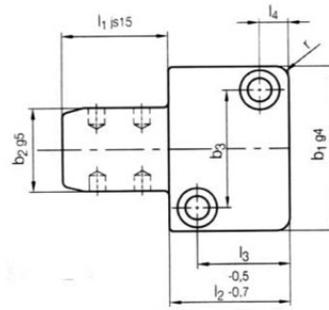
mm

CODE	b	L	h	b ₁	b ₂	b ₃	L ₁	h ₁	h ₂	h ₃	Ød	Ød1	Ød2	Ød3	F	Stroke	BAHT
S10-08	33	32	22	30	19	24	20	5	7	8	8	8	4.5	3	7	10	
S10-10	45	45	27	40	25	32	30	5	8	10	10	10	5.5	4	9	18	
S10-12	57	50	32	51	31	39	35	7	10	12	12	11	7	6	11	20	
S10-16	65	65	36	58	38	46	40	8	10	16	16	14	9	6	14.5	25	
S10-20	80	80	42	72	44	56	55	11	12	20	20	17	11	8	18	30	
S10-25	93	90	50	85	52	66	65	15	15	25	25	20	14	10	22.5	35	
S10-30	101	100	55	93	60	74	70	15	15	30	30	20	14	10	27	40	
S10-35	120	120	62	110	70	85	80	15	18	35	35	26	14	10	32	45	
S10-40	130	135	70	120	80	95	90	15	18	40	40	26	17.5	10	36	50	
S10-45	140	150	80	130	90	105	110	15	20	45	45	26	17.5	10	40	55	



OILLESS SIDE LOCKS

MATERIAL: Tool Steel
HARDNESS: HRC58+/-2



CODE: S06

METRIC STANDARD

CODE	b ₁	b ₂	l ₁	l ₂	t ₁	t ₃	d ₁	d ₂	t ₂	b ₃	l ₃	l ₄	r	BAHT
S06-40A	40	16	20	22	20	11	6.6	11	6.8	26	15	7	6	
S06-40B			40											
S06-45A	45	20	25	27	22	13	6.6	11	6.8	31	19	7	6	
S06-45B			50											
S06-50A	50	25	32	36	25	14	6.6	11	6.8	35	27	9	8	
S06-50B			63											
S06-63A	63	32	40	46	32	19	9	15	9	45	35	11	8	
S06-63B			80											
S06-85A	85	40	50	56	36	22	11	18	11	60	40	15	10	
S06-85B			100											
S06-100A	100	50	56	66	40	24	14	20	13	74	48	18	10	
S06-100B														



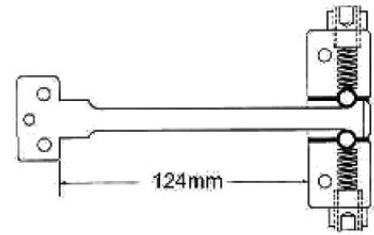
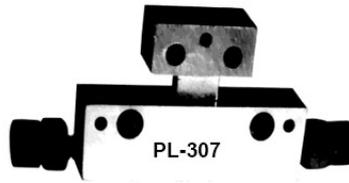
CODE: PL

P-LOCK	HIGH LOADING P-LOCK
<p>NO. PL-201 (S)/SET</p>	<p>NO. PL-301/SET</p>
<p>一般拉細水口板</p>	<p>一般拉細水口板</p>
<p>NO. PL-202 (L)/SET</p>	<p>NO. PL-302/SET</p>
<p>加長勾咀, 跨越推板</p>	<p>加長勾咀, 跨越推板</p>
<p>NO. PL-203 (XL)/SET</p>	<p>NO. PL-303/SET</p>
<p>特長勾咀, 跨越推板</p>	<p>特長勾咀, 跨越推板</p>
<p>NO. PL-204 (A)/SET</p>	<p>NO. PL-304/SET</p>
<p>有虛位勾咀, 先開模, 後拉推板</p>	<p>有虛位勾咀, 先開模, 後拉推板</p>
<p>NO. PL-205 (AL)/SET</p>	<p>NO. PL-305/SET</p>
<p>加長勾咀虛位, 先開模, 後拉推板</p>	<p>加長勾咀虛位, 先開模, 後拉推板</p>
<p>NO. PL-206 (AXL)/SET</p>	<p>NO. PL-306/SET</p>
<p>特長勾咀虛位, 先開模, 後拉推板</p>	<p>特長勾咀虛位, 先開模, 後拉推板</p>

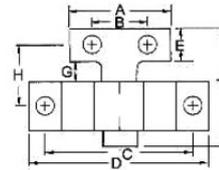


LONGEST HIGH LOADING P-LOCKS

NO. PL-307/SET



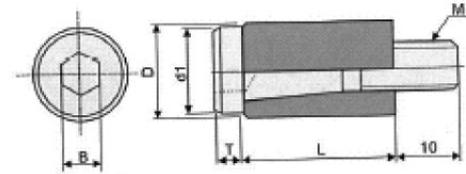
SIDE-LOCKS



CODE: PL

CODE	A	B	C	D	E	F	G	H	T	BAHT (/SET)
PL-101	40	26	60	72	20	20	3	23	49	
PL-102	40	26	60	72	20	20	36	66	92	
PL-103	49	30	90.50	118	22	30	14.50	38.60	72	
PL-104	49	30	90.50	118	22	30	53	79	118	

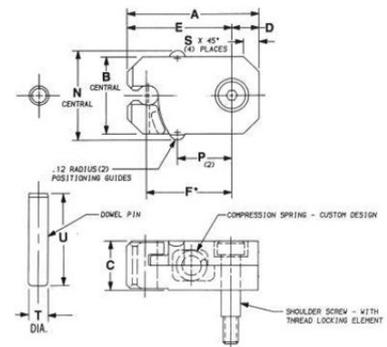
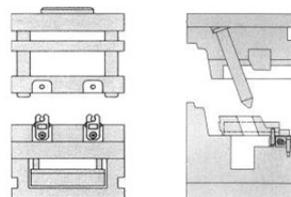
PARTING LOCKS



CODE: PL

CODE	D	d1	M	B	T	L	BAHT
PL-401	10	8.5	5.0	4.0	3.0	18.0	
PL-402	12	11.5	6.0	5.0	3.2	20.0	
PL-403	13	11.5	6.0	5.0	3.5	20.0	
PL-404	16	14.0	8.0	6.0	4.5	25.0	
PL-405	20	16.0	10.0	8.0	5.0	30.0	

SIDE RETAINERS

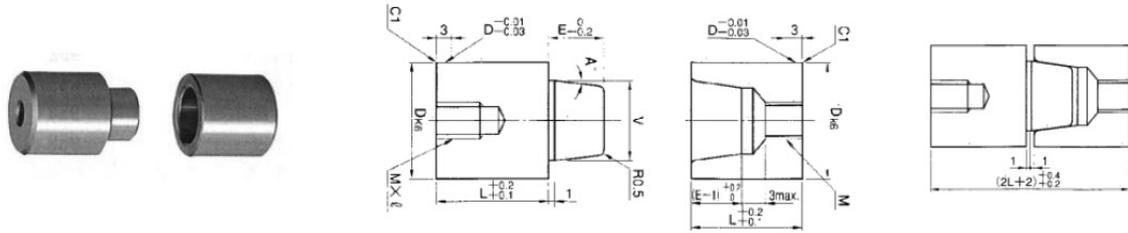


CODE	A	B	C	D	E	F	N	P	S	T	U	BAHT
P02-01	1.50	.76	.63	.27	1.23	.980	.94	.61	.14	.250	1.25	
P02-02	2.13	1.26	.79	.44	1.69	1.375	1.44	.88	.25	.312	1.50	
P02-03	3.38	1.76	1.18	.75	2.63	2.125	1.94	1.57	.38	.375	2.25	



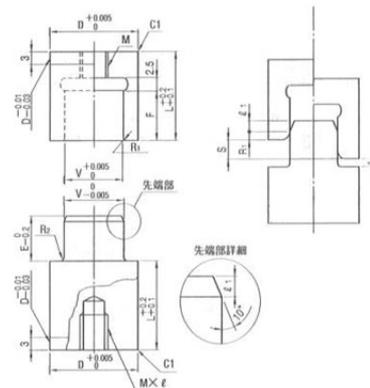
TAPERED INTERLOCKS

MATERIAL: Tool Steel
 HARDNESS: HRC58+/-2



CODE: TP

CODE	ØD	L2	L	V	E	M x l	A°	BAHT (/SET)
TP-13	13 +0.03 +0.02	30	14	7	6	M4 x 10	5°	
TP-16	16 +0.03 +0.02	30	14	10	6	M5 x 10		
TP-20	20 +0.03 +0.02	40	19	13	9	M6 x 12		
TP-25	25 +0.03 +0.02	50	24	16	12	M8 x 16		
TP-30	30 +0.03 +0.02	60	29	20	15	M10 x 20		
TP-35	35 +0.03 +0.02	70	34	24	18	M12 x 24		



CODE	D	E	L	V	F	M x l	I ₁	R ₁	R ₂	BAHT
S13-1307	13	7	14.5	7	5	M4 x 10	1	0.5	0.8	
S13-1313	13	13	24.5	7	11	M4 x 10	1	0.5	0.8	
S13-1607	16	7	14.5	10	5	M5 x 10	1	0.5	0.8	
S13-1613	16	13	24.5	10	11	M5 x 10	1	0.5	0.8	
S13-2008	20	8	14.5	13	6	M6 x 12	1	0.5	0.8	
S13-2011	20	11	19.5	13	9	M6 x 12	1	0.5	0.8	
S13-2016	20	16	29	13	14	M6 x 12	2	1	1.5	
S13-2511	25	11	19.5	16	9	M8 x 16	1	0.5	0.8	
S13-2513	25	13	24.5	16	11	M8 x 16	1	0.5	0.8	
S13-2520	25	20	34	16	18	M8 x 16	2	1	1.5	
S13-3025	30	25	39	20	23	M10 x 20	2	1	1.5	



TAPERED LOCKS

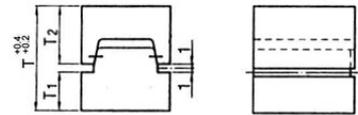
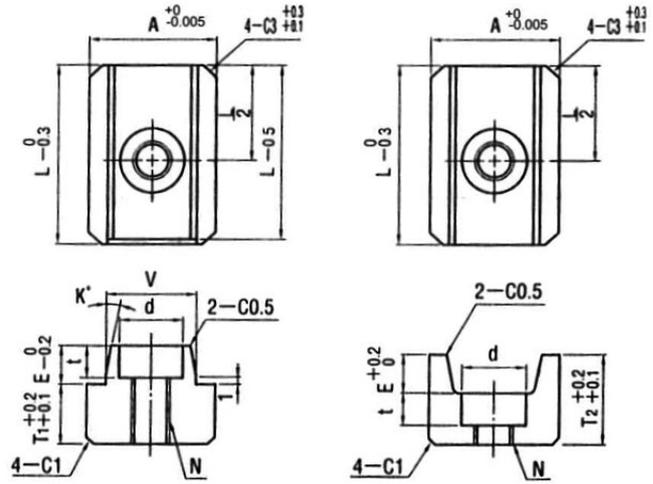
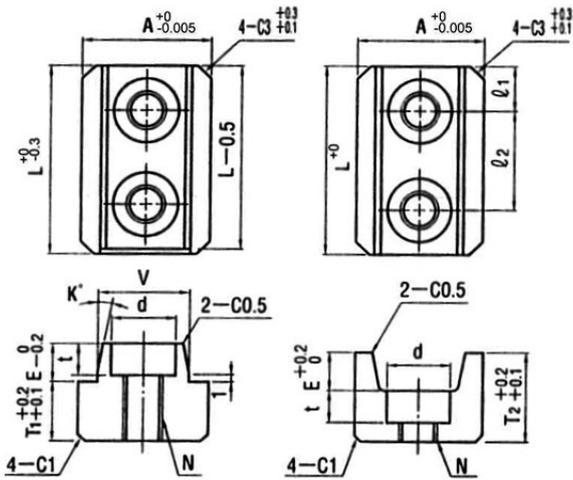
MATERIAL: Tool Steel
 HARDNESS: HRC58+/-2



L30 • 40



L25



CODE	A	L	K°	V	E	T	T ₁	T ₂	l ₁	l ₂	d	t	N	BAHT
S14-20251	20	25	1	12	7	23	7	14	-	-	6.5	3.5	M4	
S14-20253	20	25	3	12	7	23	7	14	-	-	6.5	3.5	M4	
S14-20255	20	25	5	12	7	23	7	14	-	-	6.5	3.5	M4	
S14-20301	20	30	1	12	7	23	7	14	7.5	15	6.5	3.5	M4	
S14-20303	20	30	3	12	7	23	7	14	7.5	15	6.5	3.5	M4	
S14-20305	20	30	5	12	7	23	7	14	7.5	15	6.5	3.5	M4	
S14-25251	25	25	1	15	8	28	9	17	-	-	8	5	M5	
S14-25253	25	25	3	15	8	28	9	17	-	-	8	5	M5	
S14-25255	25	25	5	15	8	28	9	17	-	-	8	5	M5	
S14-25301	25	30	1	15	8	28	9	17	7.5	15	8	5	M5	
S14-25303	25	30	3	15	8	28	9	17	7.5	15	8	5	M5	
S14-25305	25	30	5	15	8	28	9	17	7.5	15	8	5	M5	
S14-30401	30	40	1	17	8	32	10	20	10	20	9	6	M6	
S14-30403	30	40	3	17	8	32	10	20	10	20	9	6	M6	
S14-30405	30	40	5	17	8	32	10	20	10	20	9	6	M6	
S14-35401	35	40	1	20	10	35	11	22	10	20	11	7	M8	
S14-35403	35	40	3	20	10	35	11	22	10	20	11	7	M8	
S14-35405	35	40	5	20	10	35	11	22	10	20	11	7	M8	



TAPERED LOCKS

MATERIAL: Tool Steel
 HARDNESS: HRC58+/-2



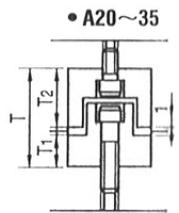
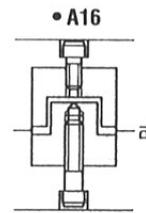
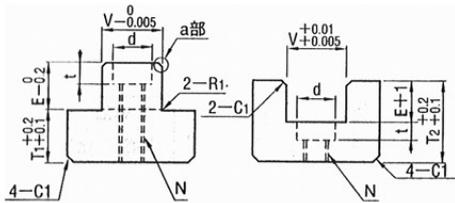
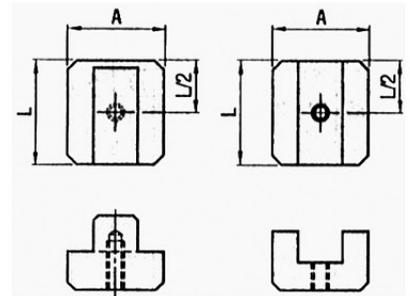
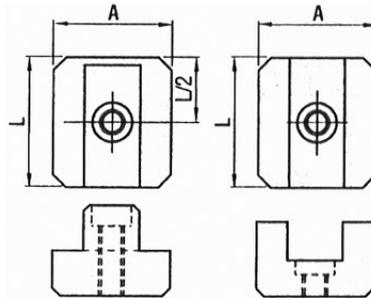
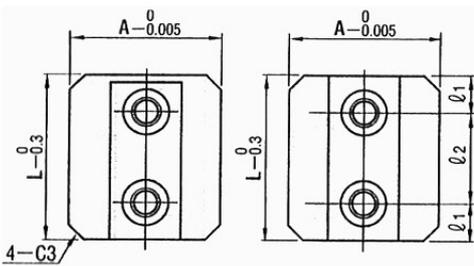
L30-50



L25



L16-20

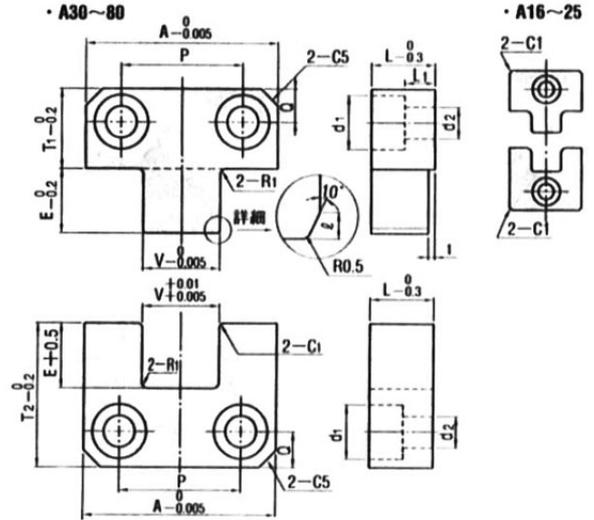


CODE	A	L	E	V	T	T ₁	T ₂	l	R ₁	C ₁	l ₁	l ₂	d	t	N	BAHT
S15-161608	16	16	8	9	26	8	17	1	0.5	0.5					M4	
S15-161612	16	16	12	9	30	8	21	1	0.5	0.5					M4	
S15-162008	16	20	8	9	26	8	17	1	0.5	0.5					M4	
S15-162012	16	20	12	9	30	8	21	1	0.5	0.5					M4	
S15-202508	20	25	8	12	26	8	17	1	0.5	0.5			6.5	3.5	M4	
S15-202512	20	25	12	12	30	8	21	1	0.5	0.5			6.5	3.5	M4	
S15-203008	20	30	8	12	26	8	17	1	0.5	0.5	7.5	15	6.5	3.5	M4	
S15-203012	20	30	12	12	30	8	21	1	0.5	0.5	7.5	15	6.5	3.5	M4	
S15-252510	25	25	10	15	32	10	21	1	0.5	0.5			8	5	M5	
S15-252515	25	25	15	15	37	10	26	2	1	1			8	5	M5	
S15-253010	25	30	10	15	32	10	21	1	0.5	0.5	7.5	15	8	5	M5	
S15-253015	25	30	15	15	37	10	26	2	1	1	7.5	15	8	5	M5	
S15-303012	30	30	12	17	36	12	23	1	0.5	0.5	7.5	15	9.5	6	M6	
S15-303020	30	30	20	17	34	12	31	2	1	1	7.5	15	9.5	6	M6	
S15-304012	30	40	12	17	36	12	23	1	0.5	0.5	10	20	9.5	6	M6	
S15-304020	30	40	20	17	34	12	31	2	1	1	10	20	9.5	6	M6	
S15-354015	35	40	15	20	41	12	28	2	1	1	10	20	11	7	M8	
S15-354025	35	40	25	20	51	12	38	2	1	1	10	20	11	7	M8	
S15-355015	35	50	15	20	41	12	28	2	1	1	10	30	11	7	M8	
S15-355025	35	50	25	20	51	12	38	2	1	1	10	30	11	7	M8	



STRAIGHT SIDE LOCKS

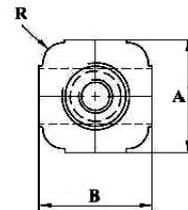
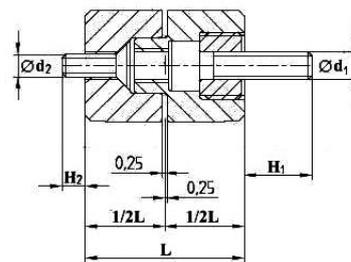
MATERIAL: Tool Steel
 HARDNESS: HRC58+/-2



CODE	A	E	V	T ₁	T ₂	I	R ₁	C ₁	P	Q	d ₁	d ₂	L	L ₁	BAHT
S16-1606	16	6	7	11	17	1	1	0.5	-	5	8	4.5	8	3	
S16-2006	20	6	8	11	17	1	1	0.5	-	5	8	4.5	8	3	
S16-2508	25	8	10	11	19	1	1	0.5	-	5	8	4.5	8	3	
S16-3008	30	8	12	14	22	1	1	0.5	16	6	9.5	5.5	10	4	
S16-3020	30	20	12	14	34	2	2	1	16	6	9.5	5.5	10	4	
S16-4010	40	10	15	18	28	1	1	0.5	22	7	11	6.6	13	6	
S16-4025	40	25	15	18	43	2	2	1	22	7	11	6.6	13	6	
S16-6020	60	20	25	30	50	2	2	1	36	12	14	8.6	20	11	
S16-6035	60	35	25	30	65	2	2	1	36	12	14	8.6	20	11	
S16-8030	80	30	30	40	70	2	2	1	52	14	18	11	25	14	
S16-8045	80	45	30	40	85	2	2	1	52	14	18	11	25	14	

SQUARE INTERLOCKS

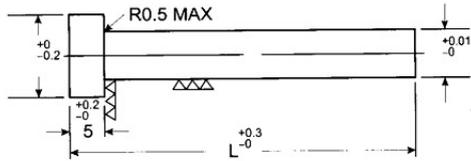
MATERIAL: Tool Steel
 HARDNESS: HRC58+/-2



CODE: S07

ขนาด: mm

CODE	A	B	L	d ₁	d ₂	H ₁	H ₂	R	BAHT
S07-20	20	20	28	M5	M4	12	4	4	
S07-25	25	25	32	M6	M5	13	8	5	
S07-32	32	32	36	M8	M6	15	12	6	
S07-40	40	40	45	M10	M8	17	10	6	



MATERIAL: SKD-11
 HARDNESS: HRC 60°- 62°

SIZE		L						BAHT/ PC
D	H	40	50	60	70	80	90	100
1	1.6							
1.5	2							
2	4							
2.5	4.5							
3	5							
3.5	5.5							
4	6							
4.5	6.5							
5	7							
5.5	7.5							
6	8							
6.5	8.5							
7	10							
8	11							
9	12							
10	13							
11	14							
12	15							
13	16							
14	17							
15	18							
16	19							
18	21							
20	23							

MATERIAL: SKH-51
 HARDNESS: HRC 61°- 64°

SIZE		L						BAHT/ PC
D	H	40	50	60	70	80	90	100
1	1.6							
1.5	2							
2	4							
2.5	4.5							
3	5							
3.5	5.5							
4	6							
4.5	6.5							
5	7							
5.5	7.5							
6	8							
6.5	8.5							
7	10							
8	11							
9	12							
10	13							
11	14							
12	15							
13	16							
14	17							
15	18							
16	19							
18	21							
20	23							

★ SKD-11啤咀(沖頭)有現貨供應, SKH-51啤咀交貨期4天。
 ★ 歡迎訂製各種不同材料不同規格及不同形狀的啤咀和下模, 交貨期4 - 5天。



	M	M			Diagram
		CODE	ปลาย	ความยาวปลาย	
	SKD11 58-60HRC	AD	Ⓐ Ⓓ		
	SKH51 60-62HRC	AS	Ⓡ ⓔ		
	ASP23 62-64HRC	AA	ⓖ		

CODE	ปลาย	D	L	T	Material				H	B		
					Ⓐ	Ⓓ	Ⓡ	ⓔ		ⓖ	S	L
					min P max	P · Kmax	P · Wmin	R				
AD	Ⓐ	3	40 50 60 80	5	1.00~2.99				5	8	13	
		4	40 50 60 80		1.00~3.99	3.97	1.00	6				
		5	40 50 60 80		2.00~3.99	4.97	1.00	7				
		6	40 50 60 80		2.00~5.99	5.97	1.00	8				
AS	Ⓡ	8	(40) 50 60 80 90		3.00~7.99	7.97	2.00	10	13	19		
		10	(40) 50 60 80 90		3.00~9.99	9.97	1.50	13				
		13	(40) 50 60 80 90		6.00~12.99	12.97	3.00	16				
AA	ⓖ	16	(40) 50 60 80 90		10.00~15.99	15.97	4.00	19	19	25		
		20	(40) 50 60 80 90		13.00~19.99	19.97	5.00	23				
		25	(40) 50 60 80 90		18.00~24.99	24.97	6.00	28				

Material : SKD-11

CODE	D	L					
		40.50	60	70	80	90	
AD ADAL	3	S					
		L					
	4						
	5						
	6						
	8						
	10						
	13						
	16						
20							
25							

Material : SKH-51

CODE	D	L				
		40.50	60	70	80	90
AS ASAL	3	S				
		L				
	4					
	5					
	6					
	8					
	10					
	13					
	16					
	20					
25						

Material : SKD-11

CODE	D	L				
		40.50	60	70	80	90
AA AAAL	3	S				
		L				
	4					
	5					
	6					
	8					
	10					
	13					
	16					
	20					
25						



พินซ์มีป่า (SHOUDER PUNCHES)

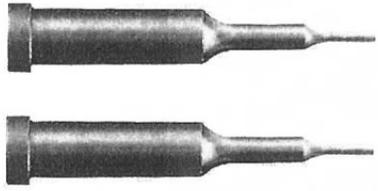
	CODE	ปลาย	Material SKD11 58-60 HRC
	AD	D R E G T H	

สี่เหลี่ยม D $\textcircled{1} K = \sqrt{P^2 + W_2}$	สี่เหลี่ยม R R $\textcircled{1} K = \sqrt{(P-2R)^2 + (W-2R)^2} + 2R$	ทรงไข่ E 	ทรงไข่ R G 	สามเหลี่ยม T 	หกเหลี่ยม H
--	---	------------------------	--------------------------	----------------------------	---------------------------

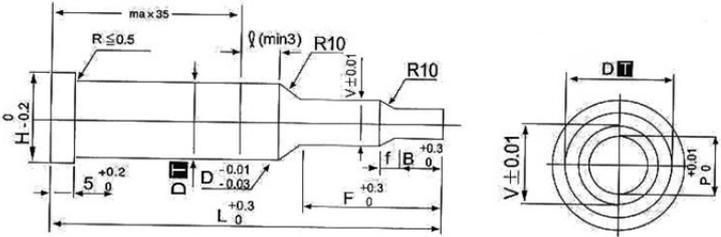
CODE	D	ปลาย		D	R	E	G	T	H	
		B	L							
AD	4	15	60							
	5									
	6									
	7									
	8									
	10									
	11									
	12									
	13									
	14									
	15									
	16	20								
	17									
	18									
	20									
	21									
	22									
	23									
	24									
	25									
26										
27										
28										
30										



B-AB



Material : SK-11
: 58 ~ 60 HRC



CODE				H	L			
	D	P	B		40.50	60	70	80
B-AB	3	0.50~0.99	2.0~10.0	5				
		1.00~1.98	2.0~20.0					
		2.00~2.98	2.0~35.0					
	4	0.50~0.99	2.0~10.0	6				
		1.00~1.98	2.0~20.0					
		2.00~3.98	2.0~35.0					
	5	1.00~1.99	2.0~20.0	7				
		2.00~3.98	2.0~35.0					
		4.00~1.98	2.0~45.0					
	6	1.00~4.99	2.0~20.0	8				
		2.00~3.98	2.0~35.0					
		4.00~5.98	2.0~45.0					
	8	1.00~1.99	2.0~20.0	10				
		2.00~3.99	2.0~35.0					
		4.00~5.99	2.0~45.0					
		6.00~7.98	2.0~60.0					
	10	1.50~1.99	2.0~20.0	13				
		2.00~3.99	2.0~35.0					
		4.00~5.99	2.0~45.0					
		6.00~9.98	2.0~60.0					
13	3.00~3.99	2.0~35.0	16					
	4.00~5.99	2.0~45.0						
	6.00~12.98	2.0~60.0						
16	5.00~5.99	2.0~45.0	19					
	6.00~15.98	2.0~60.0						
20	6.50~19.98	2.0~60.0	23					
25	9.00~24.98	2.0~60.0	28					

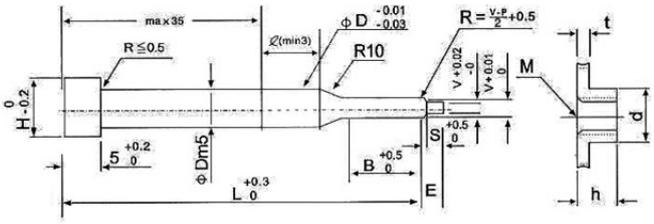


XXXX

ADK



Material : SKD-11
: 58-60 HRC

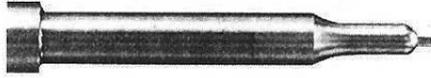


M	V	L				min V max	min P	
		D	41	51	61			71
8 13 19	6	ADK	4				2.00-3.20	1.00
	7		5				2.00-3.80	1.20
	8		6				2.00-5.30	1.20
	10		8				5.00-5.40	1.50

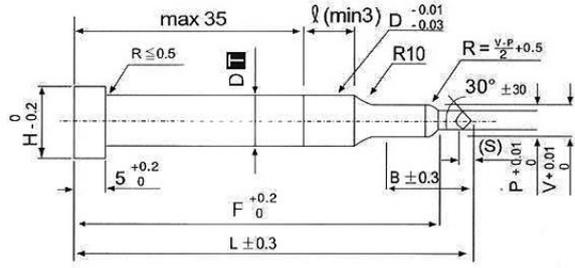
M	V	P	B	S	5.6E	MxP	h.d(spcc)								
							t	0.6	0.8	1.0	1.2	1.6	2.0		
2.6	2.22	1.5	6	2	2.7	M2.6 x 0.45	A	d							
	2.25						B	h							
	2.32						C	d							
	2.35						D	h							
3	2.59	1.9	8	3	3.6	M3 x 0.5	A	d							
	2.63						B	h							
	2.72				C		d								
	2.76				D		h								
4	3.39	2.4		3	3.9	M4 x 0.7	A	d							
	3.44						B	h							
	3.64				C		d								
	3.69				D		h								
5	4.33	2.9	4	4	5.4	M5 x 0.8	A	d							
	4.38						B	h							
	4.62						C	d							
	4.67						D	h							



ADK2E
ADK3E
ADK4E



Material : SKD-11
: 58-60 HRC

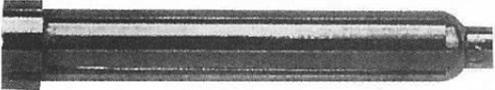


xx			
xx	ADK2E	ADK3E	ADK4E

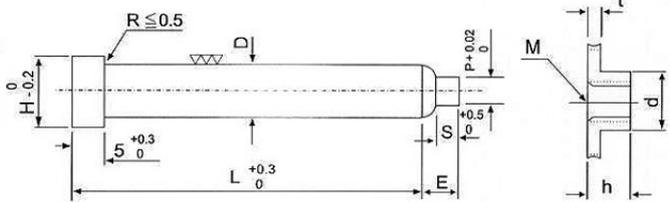
xx	D	L			R	F	B	H
		min V	max	min P				
ADK2E	5	40.00~80.00	2.00	4.99	0.5 ≤ R ≤ V - P	F ≤ L - (P × 0.866) - 1	8	7
ADK3E	6		2.00	5.99				8
ADK4E	8	40.00~100.0	3.00	7.99			13	10

D	ADK2E	ADK3E	ADK4E
5			
6			
8			

HDK



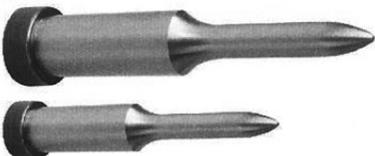
XXXX



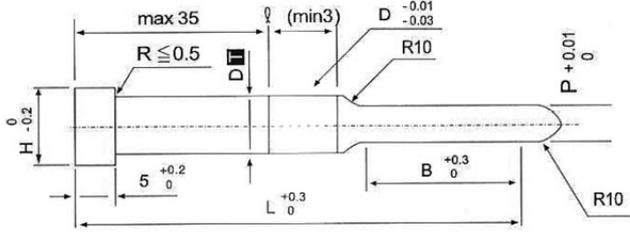
CODE	D	L				min P max	Min	H
		41	51	61	71			
HDK	4					2.00-3.20	1.00	6
	5					2.00-3.80	1.20	7
	6					2.00-5.30	1.20	8
	8					5.00-5.40	1.50	10



ADBS
ADBL



Material : SKD-11
: 58-60 HRC

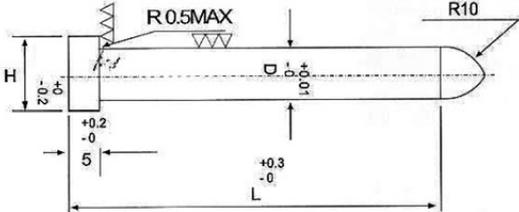


		P	B	H	L				
CODE	D				42.52	62	42	82	90
ADBS	3	1.00~2.99	10	5					
	4	1.00~3.99		6					
	5	2.00~4.99		7					
	6	2.50~5.99		8					
	8	3.00~7.99	15	10					
	10	3.00~9.99		13					
	13	6.00~12.99		16					
ADBL	3	1.00~2.99	15	5					
	4	1.00~3.99		6					
	5	2.00~4.99		7					
	6	2.50~5.99		8					
	8	3.00~7.99	21	10					
	10	3.00~9.99		13					
	13	6.00~12.99		16					
	16	10.00~15.99	27	19					

HBD



Material : SKD-11
: 58-60 HRC

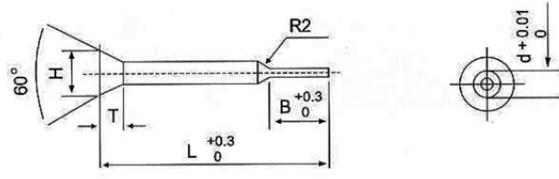


		D	H	L			
CODE	D			42	52	62	72
HDB	3	2.00~3.00	5				
	4	3.00~4.00	6				
	5	4.00~5.00	7				
	6	5.00~6.00	8				
	8	6.00~8.00	10				
	10	8.00~10.00	13				





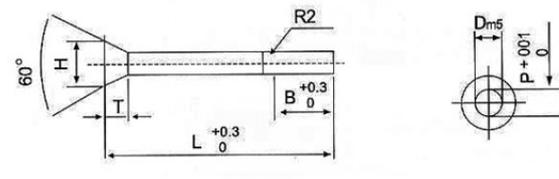
ADBS



B	T	H			L	min P max	xx
				D			xx
4	1.1	2.9	SHCL	1.5	(25)30 35 40 50	0.30~1.59	25
6	1.4	3.6		2.0		0.50~1.99	
8	1.8	4.5		2.5		1.00~2.49	

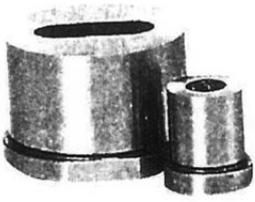
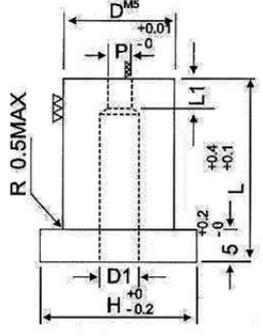
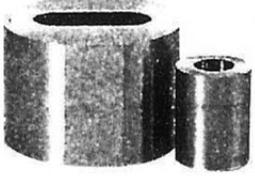
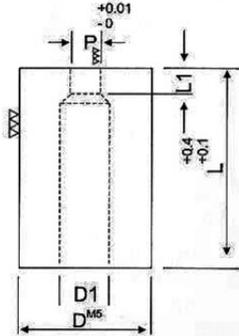


SH



T	H			L	
0.7	1.8	SH	1.0	25	12
0.8	2.0		1.1		
0.8	2.1		1.2		
0.9	2.3		1.3		
1.0	2.6		1.4		
1.1	2.8		1.5		
1.1	2.9		1.6		
1.2	3.1		1.7		
1.3	3.3		1.8		
1.3	3.4		1.9		
1.4	3.6		2.0		
1.5	3.8		2.1		
1.5	3.9		2.2		
1.6	4.1		2.3		
1.7	4.4		2.4		
1.8	4.6		2.5		
1.8	4.7		2.6		
1.9	4.1		2.7		
2.0	5.1		2.8		
2.0	5.2		2.9		
2.1	5.4			50	15



ชนิด (Type)	Mat	Catalog No.		
		Code	Shape	
Headtype (แบบมีปีก) 	SKD-11 58~60HRC	MAD	(A) (D) (R) (E) (G)	
	SKH-51 60~62HRC	MAS		
Straight Type (แบบตรง) 	SKD-11 58~60HRC	MBD	(A) (D) (R) (E) (G)	
	SKH-51 60~62HRC	MBS		

CODE	Shape	D	m5	n5	H	L	(A)	(D)	(R)	(G)	(E)	(R)	L1	D1
							min P max	P · Kmax	P · Wmin	R				
MAD MBD MAS MBS	(A) (D) (R) (E) (G)	6	+0.009 +0.004	+0.013 +0.008	8	15 20 25 20 35	1.00~3.00	3.00	1.00	0.20 ~ W 2	3	P+0.05		
		8	+0.012	+0.016	10		1.00~4.00	4.00	1.00			P+0.05		
		10	+0.006	+0.010	13		2.00~6.00	6.00	1.20			P+0.05		
		13	+0.015	+0.020	16		3.00~8.00	8.00	2.00			P+0.05		
		16	+0.007	+0.012	19		5.00~10.00	10.00	2.50			P+0.05		
		18	+0.017 +0.008	+0.024 +0.015	21		6.00~11.00	11.00	3.00			P+0.05		
		20			7.00~12.00		12.00	3.00	P+0.05					
		22	8.00~14.00	14.00	3.00		P+0.05							
		25	10.00~16.00	16.00	3.00		P+0.05							
		28	13.00~18.00	18.00	3.00		P+0.05							
30	+0.020 +0.009	+0.028 +0.017	33	14.00~19.00	19.00	4.00	P+0.05							
32	15.00~20.00	20.00	4.00	P+0.05										

Order Catalog No. \varnothing D - L - P - W - R E Only
 MBDA - 13 - 30 - P7.00 - 30

	5~15L	16~20L	21~25L
D=6, 8			
D=10, 13, 16			
D=18, 20, 22			
D=25, 28			
D=30, 32			

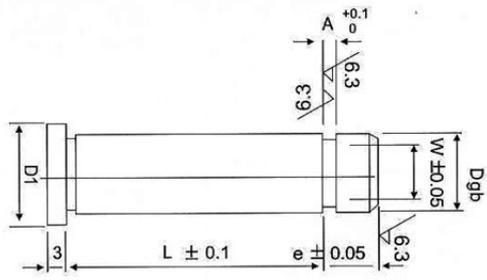


กระทุ้งลอย

GLS



Material : SKD-11
: 58 ~ 60 HRC



D96	W	e	D1	MxP	h			L	A
						GLS	D		
4	-0.004	2.0	5	6	8x1.25	8	4	22 25 28 30 33 36	0.5 0.8
5	-0.012	3.6	7	8	10x1.5	10	6	22 25 28 30 33 36	1.0 1.6
8	-0.005	5.0	7	10	12x1.5	10	8	22 25 28 30 33 36	1.6 2.0
10	-0.014	6.0	7	13	16x1.5	10	10	25 28 30 33 36 40 50	1.6 2.5
13	-0.006	7.0	7	16	20x1.5	12	13	25 28 30 33 36 40 50	2.5 3.6
16	-0.017	8.0	12	19	22x1.5	12	16	25 28 30 33 36 40 50 60	2.5 4.0
20	-0.007~-0.020	10.0	12	23	27x1.5	12	20	25 28 30 33 36 40 50 60 70	3.6 5.0

D86	W	e	D1	MxP	h			L	A
						GLSY	D		
4	-0.004	2.0	5	6	8x1.25	8	4	22 25 28 30 33 36	0.5 0.8
5	-0.012	3.6	7	8	10x1.5	10	6	22 25 28 30 33 36	1.0 1.6
8	-0.005	5.0	7	10	12x1.5	10	8	22 25 28 30 33 36	1.6 2.0
10	-0.014	6.0	7	13	16x1.5	10	10	25 28 30 33 36 40 50	1.6 2.5
13	-0.006	7.0	7	16	20x1.5	12	13	25 28 30 33 36 40 50	2.5 3.6
16	-0.017	8.0	12	19	22x1.5	12	16	25 28 30 33 36 40 50 60	2.5 4.0
20	-0.007~-0.020	10.0	12	23	27x1.5	12	20	25 28 30 33 36 40 50 60 70	3.6 5.0

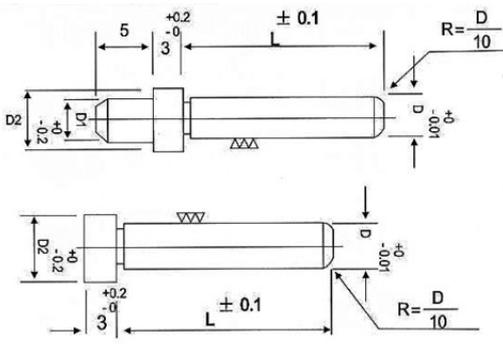
LA



LB



Material : SK-3
: 53°-58° HRC



CODE	D	D2	D1	L						
				15	20	22	25	30	35	40
LA	3	5	3							
	4	6	4							
	5	7	4							
	6	8	5							
	8	10	7							
LB	3	5								
	4	6								
	5	7								
	6	8								
	8	10								

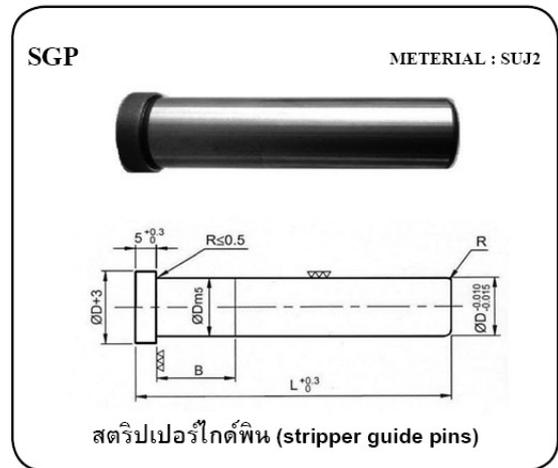
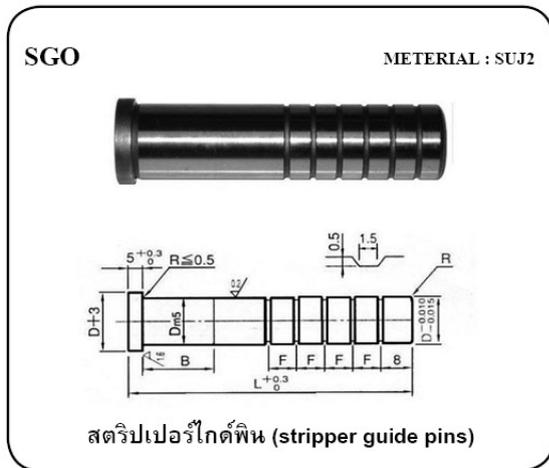
Catalog No. \varnothing D - L - R

LA 3 - 20 - 50

LB 4 - 25 - 100



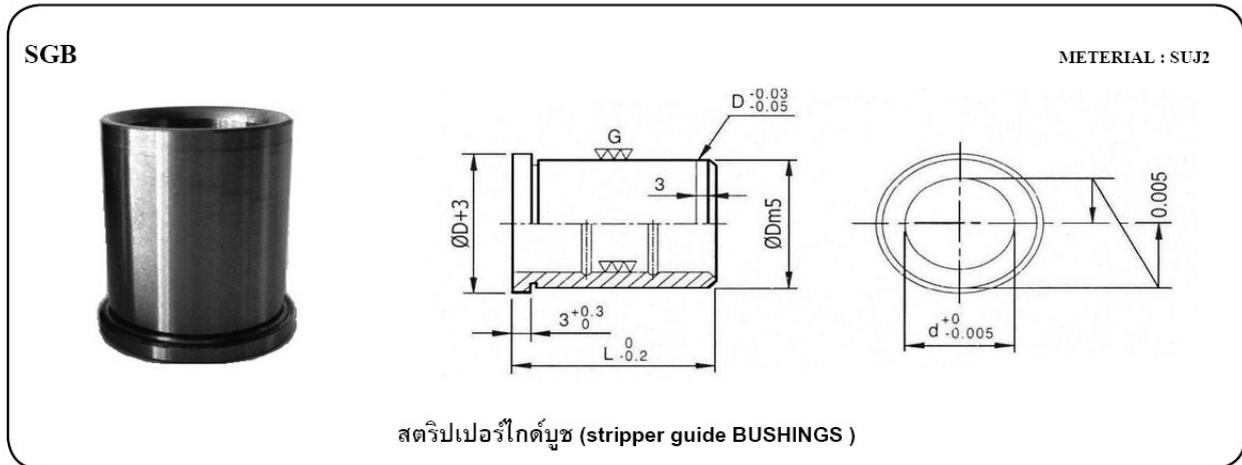
สตริปปเปอร์ไกด์พิน (STRIPPER GUIDE PINS)



ØDm5		R	B	L	ราคา
8	+0.012	1.0	10	40 50 60	
				70 80	
10	+0.006	1.0	13	40 50 60 70	
				80 90 100	
13	+0.015	1.5	16	50 60 70	
				80 90 100	
16	+0.007	1.5	20	110 120	
				50 60 70 80	
20	+0.017	2.0	25	90 100 110 120	
				130 140	
25	+0.008	2.0	28	60 70 80 90 100	
				110 120	
				70 80 90 100	
				110 120	
				130 140	



สตริปเปอร์ไกด์บุช (STRIPPER GUIDE BUSHINGS)



ØDm5		Ød	L	ราคา
12	+0.015	8	10 13 16 20	
14		10	10 13 16 20 25	
18	+0.007	13	13 16 20 25 30	
22	+0.017	16	16 20 25 30 35	
25	+0.008	20	20 25 30 35	
32	+0.020 +0.009	25	20 25 30 35	



LDetail of grooves (K.STOH, K.SGON)		
L	Number of grooves	F
40 ~	2	L 40 ~ 119.5 = 5 L 120 ~ max = 10
50 ~	3	
70 ~	4	
80 ~	5	
90 ~	6	
160 ~	7	
180 ~	8	



ไกด์โพสท์แบบธรรมดา (MY) GPS

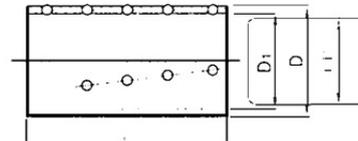
ขนาด	ความยาว	ราคา
20	80 - 90 - 100 - 110 - 120	
20	130 - 140 - 150	
25	80 - 90 - 100 - 110 - 120	
25	130 - 140 - 150 -160	
25	170 - 180 - 200	
32	100 - 110 - 120	
32	130 - 140 - 150 - 160	
32	170 - 180 - 200	
32	220 - 250 - 280- 300	
38	120 - 130 - 140 - 150 -160	
38	170 -180 - 200	
38	220 - 250 - 280 - 300	
50	160 - 170 - 180 - 200	
50	220 - 250	
50	280 - 300 - 350	
60	180 - 200 - 220 - 250	
60	280 - 300	
60	350 - 400	



ไกด์โพสท์ชนิดมีรูโดเวล (MYP) GPSP

ขนาด	ความยาว	ราคา
20	80 - 90 - 100 - 110 - 120	
20	130 - 140 - 150	
25	80 - 90 - 100 - 110 - 120	
25	130 - 140 - 150 -160	
25	170 - 180 - 200	
32	100 - 110 - 120	
32	130 - 140 - 150 - 160	
32	170 - 180 - 200	
32	220 - 250 - 280- 300	
38	120 - 130 - 140 - 150 -160	
38	170 -180 - 200	
38	220 - 250 - 280 - 300	
50	160 - 170 - 180 - 200	
50	220 - 250	
50	280 - 300 - 350	
60	180 - 200 - 220 - 250	
60	280 - 300	
60	350 - 400	

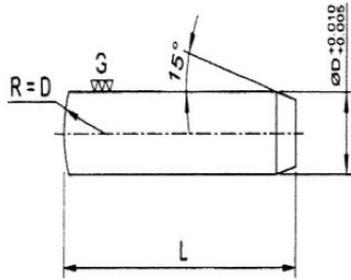
ปลอกลูกปืน (BALL RETAINERS)



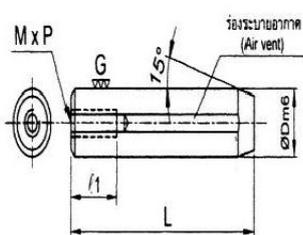
d	D1	D2	d0	L	PMS	AMS	EMS	
12	12.4	17.6	2	40				
16	16.4	21.6	2.5	60				
19	19.4	24.6	3		75			
20	20.4	25.6						
22	22.4	27.6						
25	25.4	30.6						
28	28.4	39.4	4	85				
32	32.6	43.4						
36	36.6	47.4						
38	38.7	54.3	5	95				
45	45.7	59.3						
50	50.7	65.3						
60	60.7	69.3				110		



สลักโดเวลพิน แบบตัน : DOWEL PINS STRAIGHT TYPE

  M S50C H 45 HRC	CODE	D	L
			3
		4	10 15 20 25 30 35 40 45 50
		5	20 25 30 10 15 35 40 45 50 60
		6	20 25 30 35 40 45 50 55 60 10 15 70
		8	20 25 30 35 40 45 50 55 60 10 15 70 80 100
		10	20 25 30 35 40 45 50 55 60 70 80 15 100
		12	20 25 30 35 40 45 50 55 60 70 80

สลักโดเวลพิน แบบเกลียว : DOWEL PINS STRAIGHT TYPE

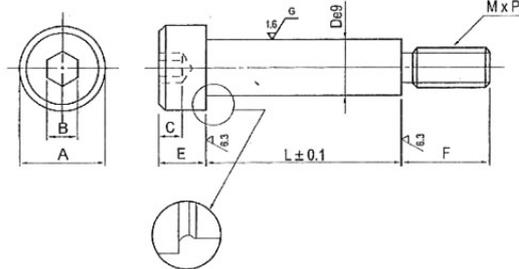
  M S50C H 45 HRC	CODE	D	M x P	l1	L
			6	4 x 0.7	8
		8	5 x 0.8	20 25 30 35 40 45 50 55 60 15 65 70 80	
		10	6 x 1.0	10	30 35 40 45 50 55 60 15 20 25 70 80 100
		12			20 25 30 35 40 45 50 55 60 70 80 100
		13	8 x 1.25	15	40 45 50 60 70 80
		16			40 50 60 70 80
		20	10 x 1.5	18	50 60 70 80



สตริปเปอร์โบลท์ : STRIPPER BOLTS



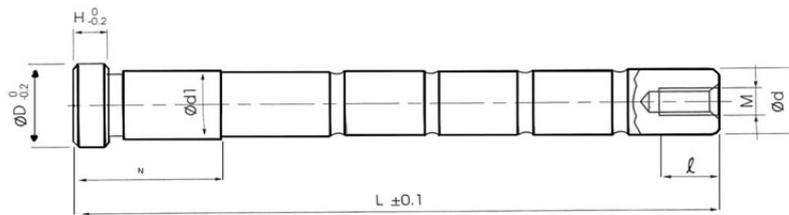
MSB



M SCM 440
H 38-40 HRC

De9		A	B	C	E	F	M x P
5.5	-0.020	9	3	2.2	4	7	4 x 0.7
	-0.050						
6.5	-0.025	10	4	2.5	5	9	5 x 0.8
	-0.061						
8	-0.061	13	5	3	6	9	6 x 1.0
12	-0.032	17	6	4	8	12	8 x 1.25
							8 x 1.25
13	-0.075	18	8	5	10	16	10 x 1.5
16		24	10	7	14	18	12 x 1.75
20	-0.040	27	14	9	18	24	16 x 2.0
	-0.092						

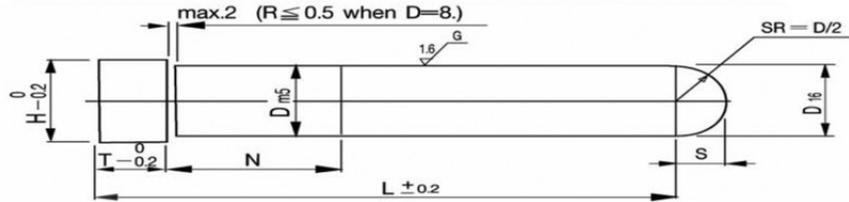
ซัพพอร์ต พิน : SUPPORT PINS



CODE	Ød	N	Ød	Ød1	D	L1	T	M x P	l		
SPP	12	24	12	-0.016	12	+0.018	17	24	6	6 x 1	12
	16	24	16	-0.027	16	+0.007	20	24	8	10 x 1.5	20
	20	29	20	-0.02	20	+0.021	25	29	10	12 x 1.75	25
	25	34	25	-0.033	25	+0.008	30	34	12	14 x 2	30
	30	44	30		30		35	44	14	16 x 2	35
	35	49	35	-0.025	35	+0.025	40	49	16		
	40	59	40	-0.041	40	+0.009	45	59	18		



แองกูลาร์พิน : ANGULAR PINS



CODE	D	Dm5	Df6	T	H	S	N	A
AP	10	+0.012 +0.022	-0.013 -0.022	10	13	5	2 ≤ N N ≤ L-T-1 OR N = 0	0~30
	13	+0.015	-0.016		16	6.5		
	16	+0.007	-0.027		19	8		
	20	+0.017	-0.020	13	23	10		
	25	+0.008	-0.033		28			
	30				35			
	35	+0.020	-0.025	15	40			
	40	+0.009	-0.041		45			
50			20		55			

หัวแม่พิมพ์แบบห่วง : LIFTING EYE BOLTS

M ss400
JIS 118

CODE	M	M x P	a	b	C	D	H	l	e	g	R	da	Max.permissible load N {kgf}		BAHT
													A:Vertical 1pc.	B:45°2Pcs.	
HL	8	8 x 1.25	32.6	20	6.3	16	33.3	15	3	6	1	9.2	80	80	
	10	10 x 1.5	41	25	8	20	41.5	18	4	7.7	1.2	11.2	150	150	
	12	12 x 1.75	50	30	10	25	51	22	5	9.4	1.4	14.2	220	220	
	16	16 x 2.0	60	35	12.5	30	60	27	5	13	1.6	18.2	450	450	
	20	20 x 2.5	72	40	16	35	71	30	6	16.4	2	22.4	630	630	
	24	24 x 3.0	90	50	20	45	90	38	8	19.6	2.5	26.4	950	950	
	30	30 x 3.5	110	60	25	60	110	45	8	25	3	33.4	1500	1500	
	36	36 x 4.0	133	70	31.5	70	132	55	10	30.3	3	39.4	2300	2300	
42	42 x 4.5	151	80	35.5	80	151	65	12	35.6	3.5	45.6	3400	3400		



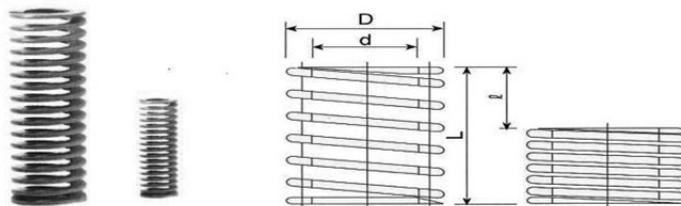
TF MINIMUM LOAD (สปริงสี่เหลี่ยม แรงกดเบามาก)

CODE	D	d	L	BAHT	CODE	D	d	L	BAHT
TF 8X10	8	4	10		TF18X25	18	9	25	
15			15		30			30	
20			20		35			35	
25			25		40			40	
30			30		45			45	
35			35		50			50	
40			40		55			55	
45			45		60			60	
50			50		65			65	
55			55		70			70	
60			60		75			75	
TF 10X20			10	5	20				80
25	25				90	90			
30	30				100	100			
35	35				TF20X25	25			
40	40				30	30			
45	45				35	35			
50	50				40	40			
55	55				45	45			
60	60				50	50			
65	65				55	55			
70	70				60	60			
75	75				65	65			
80	80		70	70					
TF12X20	12	6	20		75	22	11	75	
25			25		80			80	
30			30		90			90	
35			35		100			100	
40			40		125			125	
45			45		150			150	
50			50		TF22X25			25	
55			55		30			30	
60			60		35			35	
65			65		40			40	
70			70		45			45	
75			75		50			50	
80	80		55	55					
TF14X25	14	7	25		60	25	13.5	60	
30			30		65			65	
35			35		70			70	
40			40		75			75	
45			45		80			80	
50			50		90			90	
55			55		100			100	
60			60		125			125	
65			65		150			150	
70			70		TF25X25			25	
75			75		30			30	
80			80		35			35	
90	90		40	40					
TF16X25	16	8	25		45	25	13.5	45	
30			30		50			50	
35			35		55			55	
40			40		60			60	
45			45		65			65	
50			50		70			70	
55			55		75			75	
60			60		80			80	
65			65		90			90	
70			70		100			100	
75			75		125			125	
80			80		150			150	
90	90		175	175					
100	100								



TF MINIMUN LOAD (สปริงสี่เหลี่ยม แรงกดเบามาก)

CODE	D	d	L	BAHT	CODE	D	d	L	BAHT
TF27X25	27	13.5	25		TF40X40	40	22	40	
30			30		50			50	
35			35		60			60	
40			40		70			70	
45			45		80			80	
50			50		90			90	
55			55		100			100	
60			60		125			125	
65			65		150			150	
70			70		175			175	
75			75		200			200	
80			80		250			250	
90			90		TF50X50			50	
100			100		60			60	
125			125		70			70	
150			150		80			80	
175			175		90			90	
TF30X25	30	16	25		100	100			
30			30		125	125			
35			35		150	150			
40			40		175	175			
45			45		200	200			
50			50		250	250			
55			55		300	300			
60			60		350	350			
65			65		400	400			
70			70		450	450			
75			75		500	500			
80			80		TF60X60	60			
90			90		70	70			
100			100		80	80			
125			125		90	90			
150			150		100	100			
175			175		125	125			
200	200		150	150					
TF35X40	35	19	40		175	175			
45			45		200	200			
50			50		250	250			
55			55		300	300			
60			60		350	350			
65			65		400	400			
70			70		450	450			
75			75		500	500			
80			80						
90			90						
100			100						
125			125						
150			150						
175			175						
200			200						





TL LIGHT LOAD (สปริงไฟฟ้า แรงกดเบา)

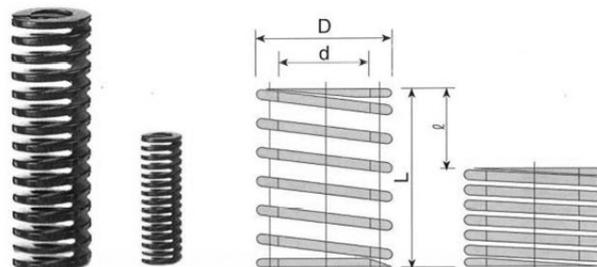
CODE	D	d	L	BAHT	CODE	D	d	L	BAHT
TL 8X10	8	4	10		TL18X25	18	9	25	
15			15		30				
20			20		35				
25			25		40				
30			30		45				
35			35		50				
40			40		55				
45			45		60				
50			50		65				
55			55		70				
60			60		75				
TL10X20			10	5	20				80
25	25				90				
30	30				100				
35	35				TL20X25	25			
40	40				30				
45	45				35				
50	50				40				
55	55				45				
60	60				50				
65	65				55				
70	70				60				
75	75				65				
80	80		70						
TL12X20	12	6	20		75	22	11	75	
25			25		80				
30			30		90				
35			35		100				
40			40		125				
45			45		150				
50			50		TL22X25			25	
55			55		30				
60			60		35				
65			65		40				
70			70		45				
75			75		50				
80	80		55						
TL14X25	14	7	25		60	25	12.5	60	
30			30		65				
35			35		70				
40			40		75				
45			45		80				
50			50		90				
55			55		100				
60			60		125				
65			65		150				
70			70		TL25X25			25	
75			75		30				
80			80		35				
90	90		40						
TL16X25	16	8	25		45	25	12.5	45	
30			30		50				
35			35		55				
40			40		60				
45			45		65				
50			50		70				
55			55		75				
60			60		80				
65			65		90				
70			70		100				
75			75		125				
80			80		150				
90	90		175						
100	100								



TL LIGHT LOAD (สปริงสีฟ้า แรงกดเบา)

CODE	D	d	L	BAHT	CODE	D	d	L	BAHT
TL27X25	27	13.5	25		TL40X40	40	20	40	
30			30		50			50	
35			35		60			60	
40			40		70			70	
45			45		80			80	
50			50		90			90	
55			55		100			100	
60			60		125			125	
65			65		150			150	
70			70		175			175	
75			75		200			200	
80			80		250			250	
90			90		TL50X50			50	
100			100		60			60	
125			125		70			70	
150			150		80			80	
175			175		90			90	
TL30X25	30	15	25	TL30X25	50	25	100		
30			30				125	125	
35			35				150	150	
40			40				175	175	
45			45				200	200	
50			50				250	250	
55			55				300	300	
60			60				350	350	
65			65				400	400	
70			70				450	450	
75			75				500	500	
80			80				TL60X60	60	
90			90				70	70	
100			100				80	80	
125			125				90	90	
150			150				100	100	
175			175				125	125	
200	200		150	150					
TL35X40	35	17.5	40		60	30	175		
45			45				200	200	
50			50				250	250	
55			55				300	300	
60			60				350	350	
65			65				400	400	
70			70				450	450	
75			75				500	500	
80			80						
90			90						
100			100						
125			125						
150			150						
175			175						
200			200						

- เฟอร์เซนต์การยวบตัว 40%
- ยวบตัวหมด 48%





TM MEDIUM LOAD (สปริงสีแดง แรงกตปานกลาง)

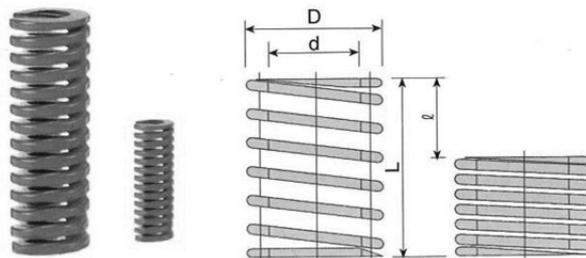
CODE	D	d	L	BAHT	CODE	D	d	L	BAHT
TM 8X10	8	4	10		TM18X25	18	9	25	
15			15		30			30	
20			20		35			35	
25			25		40			40	
30			30		45			45	
35			35		50			50	
40			40		55			55	
45			45		60			60	
50			50		65			65	
55			55		70			70	
60			60		75			75	
TM10X20			10	5	20				80
25	25				90	90			
30	30				100	100			
35	35				TM20X25	25			
40	40				30	30			
45	45				35	35			
50	50				40	40			
55	55				45	45			
60	60				50	50			
65	65				55	55			
70	70				60	60			
75	75				65	65			
80	80		70	70					
TM12X20	12	6	20		75	22	11	75	
25			25		80			80	
30			30		90			90	
35			35		100			100	
40			40		125			125	
45			45		150			150	
50			50		TM22X25			25	
55			55		30			30	
60			60		35			35	
65			65		40			40	
70			70		45			45	
75			75		50			50	
80	80		55	55					
TM14X25	14	7	25		60	25	12.5	60	
30			30		65			65	
35			35		70			70	
40			40		75			75	
45			45		80			80	
50			50		90			90	
55			55		100			100	
60			60		125			125	
65			65		150			150	
70			70		TM25X25			25	
75			75		30			30	
80			80		35			35	
90	90		40	40					
TM16X25	16	8	25		45	25	12.5	45	
30			30		50			50	
35			35		55			55	
40			40		60			60	
45			45		65			65	
50			50		70			70	
55			55		75			75	
60			60		80			80	
65			65		90			90	
70			70		100			100	
75			75		125			125	
80			80		150			150	
90	90		175	175					
100	100								



TM MEDIUM LOAD (สปริงสีแดง แรงกวดปานกลาง)

CODE	D	d	L	BAHT	CODE	D	d	L	BAHT	
TM27X25	27	13.5	25		TM40X40	40	20	40		
30			30		50			50		
35			35		60			60		
40			40		70			70		
45			45		80			80		
50			50		90			90		
55			55		100			100		
60			60		125			125		
65			65		150			150		
70			70		175			175		
75			75		200			200		
80			80		250			250		
90			90		TM50X50			50		
100			100		60			60		
125			125		70			70		
150			150		80			80		
175			175		90			90		
TM30X25	30	15	25		100	100				
30			30		125	125				
35			35		150	150				
40			40		175	175				
45			45		200	200				
50			50		250	250				
55			55		300	300				
60			60		TM60X60	60				
65			65		70	70				
70			70		80	80				
75			75		90	90				
80			80		100	100				
90			90		125	125				
100			100		150	150				
125			125		175	175				
150			150		200	200				
175			175		250	250				
200	200		300	300						
TM35X40	35	17.5	40							
45			45							
50			50							
55			55							
60			60							
65			65							
70			70							
75			75							
80			80							
90			90							
100			100							
125			125							
150	150									
175	175									
200	200									

- เฟอร์เซนต์การยวบตัว 32%
- ยวบตัวหมด 38%





TH HEAVY LOAD (สปริงสี่เหลี่ยม แรงกดหนัก)

CODE	D	d	L	BAHT	CODE	D	d	L	BAHT
TH 8X10	8	4	10		TH18X25	18	9	25	
15			15		30			30	
20			20		35			35	
25			25		40			40	
30			30		45			45	
35			35		50			50	
40			40		55			55	
45			45		60			60	
50			50		65			65	
55			55		70			70	
60			60		75			75	
TH10X20			10	5	20				80
25	25				90	90			
30	30				100	100			
35	35				TH20X25	25			
40	40				30	30			
45	45				35	35			
50	50				40	40			
55	55				45	45			
60	60				50	50			
65	65				55	55			
70	70				60	60			
75	75				65	65			
80	80		70	70					
TH12X20	12	6	20		75	22	11	75	
25			25		80			80	
30			30		90			90	
35			35		100			100	
40			40		125			125	
45			45		150			150	
50			50		TH22X25			25	
55			55		30			30	
60			60		35			35	
65			65		40			40	
70			70		45			45	
75			75		50			50	
80	80		55	55					
TH14X25	14	7	25		60	25	12.5	60	
30			30		65			65	
35			35		70			70	
40			40		75			75	
45			45		80			80	
50			50		90			90	
55			55		100			100	
60			60		125			125	
65			65		150			150	
70			70		TH25X25			25	
75			75		30			30	
80			80		35			35	
90	90		40	40					
TH16X25	16	8	25		45	25	12.5	45	
30			30		50			50	
35			35		55			55	
40			40		60			60	
45			45		65			65	
50			50		70			70	
55			55		75			75	
60			60		80			80	
65			65		90			90	
70			70		100			100	
75			75		125			125	
80			80		150			150	
90	90		175	175					
100	100								

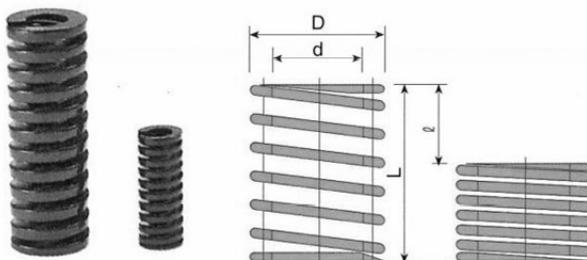


TH HEAVY LOAD (สปริงสี่เหลี่ยม แรงกดหนัก)

CODE	D	d	L	BAHT
TH27X25	27	13.5	25	
30			30	
35			35	
40			40	
45			45	
50			50	
55			55	
60			60	
65			65	
70			70	
75			75	
80			80	
90			90	
100			100	
125			125	
150			150	
175			175	
TH30X25	30	15	25	
30			30	
35			35	
40			40	
45			45	
50			50	
55			55	
60			60	
65			65	
70			70	
75			75	
80			80	
90			90	
100			100	
125			125	
150			150	
175			175	
200	200			
TH35X40	35	17.5	40	
45			45	
50			50	
55			55	
60			60	
65			65	
70			70	
75			75	
80			80	
90			90	
100			100	
125			125	
150			150	
175	175			
200	200			

CODE	D	d	L	BAHT
TH40X40	40	20	40	
50			50	
60			60	
70			70	
80			80	
90			90	
100			100	
125			125	
150			150	
175			175	
200			200	
250			250	
TH50X50			50	25
60	60			
70	70			
80	80			
90	90			
100	100			
125	125			
150	150			
175	175			
200	200			
250	250			
300	300			
TH60X60	60	30	60	
70			70	
80			80	
90			90	
100			100	
125			125	
150			150	
175			175	
200			200	
250	250			
300	300			

- เฟอร์เซนต์การยวบตัว 24%
- ยวบตัวหมด 28%





TB EXTRA HEAVY LOAD (สปริงสีน้ำตาล แรงกดหนักพิเศษ)

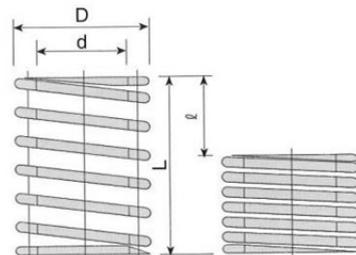
CODE	D	d	L	BAHT	CODE	D	d	L	BAHT
TB 8X10	8	4	10		TB18X25	18	9	25	
15			15		30				
20			20		35				
25			25		40				
30			30		45				
35			35		50				
40			40		55				
45			45		60				
50			50		65				
55			55		70				
60			60		75				
TB10X20			10	5	20				80
25	25				90				
30	30				100				
35	35				TB20X25	25			
40	40				30				
45	45				35				
50	50				40				
55	55				45				
60	60				50				
65	65				55				
70	70				60				
75	75				65				
80	80		70						
TB12X20	12	6	20		75	22	11	75	
25			25		80				
30			30		90				
35			35		100				
40			40		125				
45			45		150				
50			50		TB22X25			25	
55			55		30				
60			60		35				
65			65		40				
70			70		45				
75			75		50				
80	80		55						
TB14X25	14	7	25		60	25	12.5	60	
30			30		65				
35			35		70				
40			40		75				
45			45		80				
50			50		90				
55			55		100				
60			60		125				
65			65		150				
70			70		TB25X25			25	
75			75		30				
80			80		35				
90	90		40						
TB16X25	16	8	25		45	25	12.5	45	
30			30		50				
35			35		55				
40			40		60				
45			45		65				
50			50		70				
55			55		75				
60			60		80				
65			65		90				
70			70		100				
75			75		125				
80			80		150				
90	90		175						
100	100								



TB EXTRA HEAVY LOAD (สปริงสีน้ำตาล แรงกดหนักพิเศษ)

CODE	D	d	L	BAHT	CODE	D	d	L	BAHT	
TB27X25	27	13.5	25		TB40X40	40	20	40		
30			30		50			50		
40			40		70			70		
45			45		80			80		
50			50		90			90		
55			55		100			100		
60			60		125			125		
65			65		150			150		
70			70		175			175		
75			75		200			200		
80			80		250			250		
90			90		TB50X50			50		
100			100		60			60		
125			125		70			70		
150			150		80			80		
175			175		90			90		
TB30X25			30	15	25				100	100
30	30				125	125				
35	35				150	150				
40	40				175	175				
45	45				200	200				
50	50				250	250				
55	55				300	300				
60	60				TB60X60	60				
65	65				70	70				
70	70				80	80				
75	75				90	90				
80	80				100	100				
90	90				125	125				
100	100				150	150				
125	125				175	175				
150	150				200	200				
175	175				250	250				
200	200		300	300						
TB35X40	35	17.5	40							
45			45							
50			50							
55			55							
60			60							
65			65							
70			70							
75			75							
80			80							
90			90							
100			100							
125			125							
150			150							
175			175							
200			200							

- เฟอร์เซนต์การยวบตัว 20%
- ยวบตัวหมด 24%





TR สปริงสำหรับรีเทิร์นพิน (สีเงิน)
SPRING FOR MOLD RETURN PINS (SILVER COLOR)

CODE	วงนอก	วงใน	ความยาว	หน้าตัดรับน.น (kg/mm.)	หน้าตัดสปริง (kg/mm.)	ระยะตัวสปริง	รับน.น. กต (kg)	ระยะงาน	ราคา	CODE	วงนอก	วงใน	ความยาว	หน้าตัดรับน.น (kg/mm.)	หน้าตัดสปริง (kg/mm.)	ระยะตัวสปริง	รับน.น. กต (kg)	ระยะงาน	ราคา														
TR 14520	14.5	9	20	1.10	10.0	11	8			TR 2630	26	16.5	30	2.73	15.0	41	12																
TR 14525			25	0.88	12.5					10			TR 2635	35	2.34					17.5	14												
TR 14530			30	0.73	15.0					12			TR 2640	40	2.05					20.0	16												
TR 14535			35	0.63	17.5					14			TR 2645	45	1.82					22.5	18												
TR 14540			40	0.55	20.0					16			TR 2650	50	1.64					25.0	20												
TR 14545			45	0.49	22.5					18			TR 2655	55	1.49					27.5	22												
TR 14550			50	0.44	25.0					20			TR 2660	60	1.37					30.0	24												
TR 14555			55	0.40	27.5					22			TR 2665	65	1.26					32.5	26												
TR 14560			60	0.37	30.0					24			TR 2670	70	1.17					35.0	28												
TR 14565			65	0.34	32.5					26			TR 2675	75	1.09					37.5	30												
TR 14570			70	0.31	35.0					28			TR 2680	80	1.03					40.0	32												
TR 14575			75	0.29	37.5					30			TR 2690	90	0.91					45.0	36												
TR 14580			80	0.28	40.0					32			TR 26100	100	0.82					50.0	40												
TR 14590			90	0.24	45.0					36			TR 16110	110	0.75					55.0	44												
TR 145100			100	0.22	50.0					40			TR 26125	125	0.66					62.5	50												
TR 145125	125	0.18	62.5	50	TR 26150	150	0.55	75.0	60																								
TR 1725	17	11	25	1.52	12.5	19	10			TR 3240	32	21	40	2.55	20.0	51	16																
TR 1730			30	1.27	15.0					12			TR 3250	50	2.04					25.0	20												
TR 1735			35	1.09	17.5					14			TR 3260	60	1.70					30.0	24												
TR 1740			40	0.95	20.0					16			TR 3270	70	1.46					35.0	28												
TR 1745			45	0.84	22.5					18			TR 3280	80	1.28					40.0	32												
TR 1750			50	0.76	25.0					20			TR 3290	90	1.13					45.0	36												
TR 1755			55	0.69	27.5					22			TR 32100	100	1.02					50.0	40												
TR 1760			60	0.63	30.0					24			TR 32110	110	0.93					55.0	44												
TR 1765			65	0.58	32.5					26			TR 32125	125	0.82					62.5	50												
TR 1770			70	0.54	35.0					28			TR 32150	150	0.68					75.0	60												
TR 1775			75	0.51	37.5					30			TR 3940	39	26					40	2.75	20.0	55	16									
TR 1780			80	0.48	40.0					32			TR 3950							50	2.20	25.0					20						
TR 1790			90	0.42	45.0					36			TR 3960							60	1.83	30.0					24						
TR 17100			100	0.38	50.0					40			TR 3970							70	1.57	35.0					28						
TR 17125			125	0.30	62.5					50			TR 3980							80	1.38	40.0					32						
TR 2130	21	13	30	1.40	15.0	21	12			TR 3990	39	26	90			1.22	45.0	62	36														
TR 2135			35	1.20	17.5					14			TR 39100			100	1.10					50.0					40						
TR 2140			40	1.05	20.0					16			TR 39110			110	1.00					55.0					44						
TR 2145			45	0.93	22.5					18			TR 39125			125	0.88					62.0					50						
TR 2150			50	0.84	25.0					20			TR 39150			150	0.73					75.0					60						
TR 2155			55	0.76	27.5					22			TR 39175			175	0.63					87.0					70						
TR 2160			60	0.70	30.0					24			TR 39200			200	0.56					100.0					80						
TR 2165			65	0.65	32.5					26			TR 4670			46	32					70					1.77	35.0	62	28			
TR 2170			70	0.60	35.0					28			TR 4680									80					1.55	40.0					32
TR 2175			75	0.56	37.5					30			TR 4690									90					1.38	45.0					36
TR 2180			80	0.53	40.0					32			TR 46100	100	1.24							50.0	40										
TR 2190			90	0.47	45.0					36			TR 46110	110	1.13							55.0	44										
TR 21100			100	0.42	50.0					40			TR 46125	125	1.99							62.5	50										
TR 21125			125	0.34	62.5					50			TR 46150	150	0.83							75.0	60										
TR 21150			150	0.26	75.0					60			TR 46175	175	0.71							87.5	70										
					TR 46200	200	0.62	100.0	80																								



POLY URETHANE SPRINGS

ยูเรเทนสปริงสีธรรมชาติ (เหลือง)

แบบกรวง

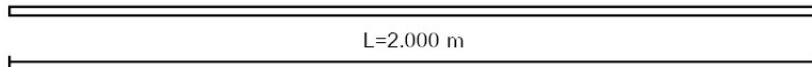
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A20x8.5x300	
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A35x13x300	
A40x15x300	
A45x15x300	
A50x16x300	
A60x18x300	
A70x18x300	
A80x20x300	
A90x25x300	
A100x30x300	

แบบตัน

ขนาด	ราคา
B10x300	
B12x300	
B15x300	
B20x300	
B25x300	
B30x300	
B35x300	
B40x300	
B45x300	
B50x300	
B60x300	
B70x300	
80x300	
90x300	
100x300	

SIVER STEEL ROD PRICE

เหล็กเจียรผิว



เหล็กเจียรผิว SIVER STEEL ROD	เทียบเกรด			ส่วนผสมทางเคมี						HARDNESS
	EQUIVALENT			CHEMICAL COMPOSITION						
	JIS	AISI	ASSAB	C	SI	Mn	P	S	Pb	HRC 13
	SK4	1095	DF2	0.9-1.00	< 0.35	0.45-0.80	0.02-0.07	0.04-0.10	0.10-0.30	

คุณสมบัติ สำหรับงานชิ้นส่วนมาตรฐาน, ชิ้นส่วนเครื่องจักร (FEATURE AND USE MACHINABILITY FOR PRECISION PARTS)

size / mm	ราคา
1 mm	
1.5 mm	
2 mm	
2.5 mm	
3 mm	
3.5 mm	
4 mm	
4.5 mm	
5 mm	
6 mm	
7 mm	
8 mm	
9 mm	
10 mm	
11 mm	
12 mm	
12.7 mm	

size / mm	ราคา
14 mm	
15 mm	
16 mm	
17 mm	
18 mm	
19 mm	
20 mm	
22 mm	
24 mm	
25 mm	
28 mm	
30 mm	
32 mm	
35 mm	
40 mm	
45 mm	
50 mm	



UHT Precision Air Grinder

MSG-3BSN		
Free Speed (rpm)	65,000	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	17x143	
Weigh(g)	130	
Chuck Diameter (m)	Ø3	
		BATH

MAG-122N		
Free Speed (rpm)	35,000	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	17x104	
Weigh(g)	130	
Chuck Diameter (m)	Ø3	
		BATH

MAG-093N		
Free Speed (rpm)	35,000	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	17x108	
Weigh(g)	140	
Chuck Diameter (m)	Ø3	
		BATH

MAG-123N		
Free Speed (rpm)	23,500	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	17x123	
Weigh(g)	175	
Chuck Diameter (m)	Ø3	
		BATH

MAG-121N		
Free Speed (rpm)	52,500	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	17x107	
Weigh(g)	140	
Chuck Diameter (m)	Ø3	
		BATH

AGP-635		
Free Speed (rpm)	35,00	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	22x160	
Weigh(g)	180	
Chuck Diameter (m)	Ø3 / Ø6	
		BATH

Precision Air Grinder

AF-02 Recipro air lapper		
Frequency (Stroke-rpm)	3400/min	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	29x163	
Weigh(g)	350	
Linear Stroke (mm)	5	
		BATH

AF-10 Recipro air lapper		
Frequency (Stroke-rpm)	3000/min	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	29x157	
Weigh(g)	350	
Linear Stroke (mm)	10	
		BATH



UHT Precision Air Grinder

Linear Stroke		
TLL-03		
Frequency (Stroke-rpm)	52,000	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	28x218	
Weigh(g)	180	
Linear Stroke (mm)	0.3	
		BATH

Linear Stroke		
TLS-03		
Frequency (Stroke-rpm)	56x000	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	28x218	
Weigh(g)	180	
Linear Stroke (mm)	0.3x0.2	
		BATH

Linear Stroke		
TLL-07		
Frequency (Stroke-rpm)	28,000	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	28x218	
Weigh(g)	180	
Linear Stroke (mm)	0.7	
		BATH

Linear Stroke		
TLS-07		
Frequency (Stroke-rpm)	20x000	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	28x218	
Weigh(g)	180	
Linear Stroke (mm)	0.7x9	
		BATH

Linear Stroke		
TLL-12		
Frequency (Stroke-rpm)	19,000	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	28x218	
Weigh(g)	180	
Linear Stroke (mm)	1.2	
		BATH

Linear Stroke		
TLS-12		
Frequency (Stroke-rpm)	14,000	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	28x218	
Weigh(g)	180	
Linear Stroke (mm)	1.2x12	
		BATH

Precision Air Grinder

AJF-05 Recipro air lapper		
Linear Stroke (mm)	↑ ↓ 0.5	
(rpm)	45000	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	23x200	
Weigh(g)	450	
		BATH

AF-N30 Silent air finger sander		
Frequency (Stroke-rpm)	15,000	
Pressure Recommend (psi)	90	
Dimension Ø DxL(mm)	38x95x190	
Weigh(g)	750	
Linear Stroke (mm)	3.0	
		BATH



U-Lap® / ULTRA AIR LAPPERS แบบอูลตรา ใช้กับตะไบ
 UR-50 :



Stroke	0.5mm
Speed	45000 rpm.
ขนาดของเครื่อง	Ø23mm X 185mm (L)
น้ำหนัก	220 g

U-Lap® / TURBO AIR LAPPERS แบบอูลตรา ใช้กับตะไบ
 UTR-30 :
 UTR-70 :



	UTR-30	UTR-70
Stroke	0.3mm	0.7mm
Speed	40000 rpm.	35000 rpm.
กำลังลม	90psi	
ขนาดของเครื่อง	Ø28mm X 200mm (L)	
น้ำหนัก	190 g	

U-Lap® / SWING AIR LAPPERS (รุ่นตะไบซ้าย, ขวา)
 US-70 :
 US-100 :



	US-70	US-100
Stroke	0.7mm	1.0mm
Speed	15000 rpm.	11000 rpm.
ขนาดของเครื่อง	Ø18mm X 180mm (L)	
น้ำหนัก	250 g	

U-Lap® / AIR GRINDERS

UG-400(3.0) :
 UG-400I(3/32) :



Speed	60000 rpm.
ขนาดของเครื่อง	Ø17mm X 159mm (L)
น้ำหนัก	130 g

- เปลี่ยนหัวไม่ได้ต้องระบุหัว 3mm. หรือ 2.34mm (3/32)

UG-500 (静音型) :



Speed	60000 rpm.
ขนาดของเครื่อง	Ø20mm X 160mm (L)
น้ำหนัก	110 g

- รุ่นเสียงเงียบเปลี่ยนได้ 3mm. หรือ 2.34mm (3/32)

UG-300 :



Speed	35000 rpm.
ขนาดของเครื่อง	Ø22mm X 180mm (L)
น้ำหนัก	170 g

- เปลี่ยนหัวได้ 3mm หรือ 6mm



RIA /AIR GRINDERS RA-600 (3.0mm) RA-600I (3/32") 	<table border="1"> <tr><td>Speed</td><td>60,000RPM</td></tr> <tr><td>จับแกน</td><td>3/32" , 3.0mm</td></tr> <tr><td>ขนาดของเครื่อง</td><td>17.5 X 142mm</td></tr> <tr><td>น้ำหนัก</td><td>180 g</td></tr> </table>	Speed	60,000RPM	จับแกน	3/32" , 3.0mm	ขนาดของเครื่อง	17.5 X 142mm	น้ำหนัก	180 g		
Speed	60,000RPM										
จับแกน	3/32" , 3.0mm										
ขนาดของเครื่อง	17.5 X 142mm										
น้ำหนัก	180 g										
RA-800 : 	<table border="1"> <tr><td>Speed</td><td>80,000RPM</td></tr> <tr><td>จับแกน</td><td>3/32" , 3.0mm</td></tr> <tr><td>ขนาดของเครื่อง</td><td>17.5 X 143mm</td></tr> <tr><td>น้ำหนัก</td><td>160 g</td></tr> </table>	Speed	80,000RPM	จับแกน	3/32" , 3.0mm	ขนาดของเครื่อง	17.5 X 143mm	น้ำหนัก	160 g		
Speed	80,000RPM										
จับแกน	3/32" , 3.0mm										
ขนาดของเครื่อง	17.5 X 143mm										
น้ำหนัก	160 g										
GP-522 : 	<table border="1"> <tr><td>Speed</td><td>22,000RPM</td></tr> <tr><td>จับแกน</td><td>120°</td></tr> <tr><td>ขนาดของเครื่อง</td><td>16.5 X 136mm</td></tr> <tr><td>น้ำหนัก</td><td>200 g</td></tr> </table>	Speed	22,000RPM	จับแกน	120°	ขนาดของเครื่อง	16.5 X 136mm	น้ำหนัก	200 g		
Speed	22,000RPM										
จับแกน	120°										
ขนาดของเครื่อง	16.5 X 136mm										
น้ำหนัก	200 g										
USHIO /AIR GRINDERS MSG-3BSN (3.0夾頭) : MSG-24BSN (3/32夾頭) : 	<table border="1"> <tr><td>Speed</td><td>65,000RPM</td></tr> <tr><td>จับแกน</td><td>3/32" , 3.0mm</td></tr> <tr><td>น้ำหนัก</td><td>130 g</td></tr> </table>	Speed	65,000RPM	จับแกน	3/32" , 3.0mm	น้ำหนัก	130 g				
Speed	65,000RPM										
จับแกน	3/32" , 3.0mm										
น้ำหนัก	130 g										
MAG-123N : 	<table border="1"> <tr><td>Speed</td><td>23,500RPM</td></tr> <tr><td>องศาคอ</td><td>120°</td></tr> <tr><td>น้ำหนัก</td><td>160 g</td></tr> </table>	Speed	23,500RPM	องศาคอ	120°	น้ำหนัก	160 g				
Speed	23,500RPM										
องศาคอ	120°										
น้ำหนัก	160 g										
ULTRASONIC LAPPING MACHINE-HANDPIECE GS-H06 : 	<table border="1"> <tr><td>กำลัง</td><td>40 WATTS</td></tr> <tr><td>ขนาดของเครื่อง</td><td>Ø30 X 130MM</td></tr> <tr><td>น้ำหนัก</td><td>185 g</td></tr> <tr><td>適用機種</td><td>AR-108</td></tr> </table>	กำลัง	40 WATTS	ขนาดของเครื่อง	Ø30 X 130MM	น้ำหนัก	185 g	適用機種	AR-108		
กำลัง	40 WATTS										
ขนาดของเครื่อง	Ø30 X 130MM										
น้ำหนัก	185 g										
適用機種	AR-108										
GS-H04 : 	<table border="1"> <tr><td>กำลัง</td><td>45 WATTS</td></tr> <tr><td>ขนาดของเครื่อง</td><td>Ø33 X 146MM</td></tr> <tr><td>น้ำหนัก</td><td>254 g</td></tr> <tr><td>適用機種</td><td>AR-800/ AR-600/ AR-600(E)</td></tr> </table>	กำลัง	45 WATTS	ขนาดของเครื่อง	Ø33 X 146MM	น้ำหนัก	254 g	適用機種	AR-800/ AR-600/ AR-600(E)		
กำลัง	45 WATTS										
ขนาดของเครื่อง	Ø33 X 146MM										
น้ำหนัก	254 g										
適用機種	AR-800/ AR-600/ AR-600(E)										
GS-H26 : 	<table border="1"> <tr><td>กำลัง</td><td>40 WATTS</td></tr> <tr><td>ขนาดของเครื่อง</td><td>Ø27 X 125MM</td></tr> <tr><td>น้ำหนัก</td><td>150 g</td></tr> <tr><td>適用機種</td><td>AR-800</td></tr> </table>	กำลัง	40 WATTS	ขนาดของเครื่อง	Ø27 X 125MM	น้ำหนัก	150 g	適用機種	AR-800		
กำลัง	40 WATTS										
ขนาดของเครื่อง	Ø27 X 125MM										
น้ำหนัก	150 g										
適用機種	AR-800										
U-LAP 35 : 	<table border="1"> <tr><td>Speed</td><td>30,000RPM</td></tr> <tr><td>แรงบิด</td><td>2.9Ncm</td></tr> <tr><td>ขนาดของเครื่อง</td><td>Ø29 X 152MM</td></tr> <tr><td>น้ำหนัก</td><td>230 g</td></tr> <tr><td>適用機種</td><td>AR-800/ AR-600/ AR-600(E)</td></tr> </table>	Speed	30,000RPM	แรงบิด	2.9Ncm	ขนาดของเครื่อง	Ø29 X 152MM	น้ำหนัก	230 g	適用機種	AR-800/ AR-600/ AR-600(E)
Speed	30,000RPM										
แรงบิด	2.9Ncm										
ขนาดของเครื่อง	Ø29 X 152MM										
น้ำหนัก	230 g										
適用機種	AR-800/ AR-600/ AR-600(E)										
U-LAP 50 : 	<table border="1"> <tr><td>Speed</td><td>40,000RPM</td></tr> <tr><td>แรงบิด</td><td>4.5Ncm</td></tr> <tr><td>ขนาดของเครื่อง</td><td>Ø29 X 153MM</td></tr> <tr><td>น้ำหนัก</td><td>260 g</td></tr> <tr><td>適用機種</td><td>AR-800/ AR-600/ AR-600(E)</td></tr> </table>	Speed	40,000RPM	แรงบิด	4.5Ncm	ขนาดของเครื่อง	Ø29 X 153MM	น้ำหนัก	260 g	適用機種	AR-800/ AR-600/ AR-600(E)
Speed	40,000RPM										
แรงบิด	4.5Ncm										
ขนาดของเครื่อง	Ø29 X 153MM										
น้ำหนัก	260 g										
適用機種	AR-800/ AR-600/ AR-600(E)										
U-LAP 60 : 	<table border="1"> <tr><td>Speed</td><td>50,000RPM</td></tr> <tr><td>แรงบิด</td><td>7.8Ncm</td></tr> <tr><td>ขนาดของเครื่อง</td><td>Ø29 X 161MM</td></tr> <tr><td>น้ำหนัก</td><td>250 g</td></tr> <tr><td>適用機種</td><td>AR-800/ AR-600</td></tr> </table>	Speed	50,000RPM	แรงบิด	7.8Ncm	ขนาดของเครื่อง	Ø29 X 161MM	น้ำหนัก	250 g	適用機種	AR-800/ AR-600
Speed	50,000RPM										
แรงบิด	7.8Ncm										
ขนาดของเครื่อง	Ø29 X 161MM										
น้ำหนัก	250 g										
適用機種	AR-800/ AR-600										



AR-108 單功型



AR-600(E) 雙功能強力型



AR-800 旗艦型多功能型

編號	AR-108	AR-600(E)	AR-800
價格			
編號			
電源	AC 90V 或 250V, 50/60Hz		
超音波輸出	36瓦	45瓦	45瓦
直流馬達輸出	/	5-30V	5~32V
超音波振頻	18.0 ~ 25.0 kHz	18.0 ~ 26.0 kHz	
超音波振幅	10 ~ 35µm	3 ~ 40µm	3 ~ 40µm
保險絲	2A	2A	3A
尺寸 (W X D X H)	192 X 156 X 96mm	170 X 240 X 140mm	170 X 260 X 140mm
重量(淨重)	185g	210g	170g



DIAMOND COMPOUNDS



鑽石膏

Diamond Compounds

- Carrier Classifications Oil soluble or water soluble
- Containers : Plastic Syringes, 5 grams per syring
- Diamond Concentrations : Medium or heavy concentrations

5 grams net

CODE	LD 002	LD 004	LD 006	LD 008	LD 010	LD 012	LD 015	LD 018	LD 020	LD 030	LD 050	LD 080	LD 140	LD 280	LD 600
Mesh Size	#200	#400	#600	#800	#1,000	#1,200	#1,500	#1,800	#2,000	#3,000	#5,000	#8,000	#14,000	#28,000	#60,000
Micron Range (µ m)	90µ (80-100)	50 (40-60)	35 (35-40)	25 (20-30)	17.5 (15-20)	15 (10-20)	13 (10-16)	9 (6-12)	8 (6-10)	6 (4-8)	4.5 (3-6)	3 (2-4)	1 (0-1)	0.5 (0-1)	0.25 (0-0.5)
Colour	Black	Purple	Red	Browns	Dark Green	Blue	Pink	Green	Light Blue	Orange	Light Brown	Yellow	White	Grey	Silver

- Note :**
1. Oil soluble is standard carries, other carries depent on your requirement.
 2. We also supply thinners, help you to do better polishing performance.



FILIX POLISHING STONES

(價格：/支)

ITEM 規格 SIZE	砂號 GRIT	EDM		DF		
		120 150 180* 220 320	400 600	150 180 220 320	400	600
1/16 X 1/4 X 4"						
1/16 X 1/2 X 6"						
1/8 X 1/8 X 4"						
1/8 X 1/4 X 6"						
1/8 X 1/2 X 6"						
1/4 X 1/4 X 6"						
1/4 X 1/2 X 6"						
3/8 X 3/8 X 6"						
1/2 X 1/2 X 6"						
1/4 X RND X 6"						
3/8 X RND X 6"						

[*註: DF圓油石無備 #180]

“GESSWEIN” DIAMOND COMPOUND



MADE IN USA

CODE	SIZE	เบอร์	สี	บรรจุ	使用参考	BATH
890-8972	1/4 – 10M	100,000	白	5 grams	超級鏡面拋光	
890-8973	1/2 – 9M	60,000	白	5 grams	超級鏡面拋光	
890-8160	1 – 8M	14,000	象牙	5 grams	超級鏡面拋光	
890-8159	3 – 7M	8,000	黃	5 grams	超高度鏡面拋光	
890-8158	6 – 48M	3,000	橙	5 grams	鏡面拋光	
890-8157	9 – 6M	1,800	綠	5 grams	高精細拋光	
890-8180	15 – 5M	1,200	藍	5 grams	精細拋光	
890-8156	30 – 4H	600	紅	5 grams	快速拋光	
890-8974	45 – 3H	325	褐	5 grams	中速切削	
890-8975	60 – 2H	230	紫	5 grams	快速切削	
890-9877	90 – 1H	170	灰	5 grams	粗切削	
890-9907	120 – H	120	黑	5 grams	快速打磨	

“GESSWEIN” OIL SOLUBLE COMPOUND LUBRICANT

MADE IN USA

CODE	SIZE	BATH
825-1300	8 安士 (瓶裝)	



“GESSWEIN” STONES

MADE IN USA

EDM สีส้ม



CODE	SIZE	NO.	BATH
6102	1/16 X 1/4 X 6"	120	
6105		150	
6110	1/16 X 1/4 X 4"	180	
6216	1/16 X 1/4 X 6"	220	
6316		320	
6416		400	
6616		600	
6120	1/16 X 1/2 X 6"	120	
6150		150	
6180		180	
6200		220	
6300		320	
6400		400	
6600		600	
6111		1/8 X 1/8 X 6"	120
6115	150		
6118	180		
6220	220		
6320	320		
6420	400		
6620	600		
6121	1/8 X 1/4 X 6"		120
6151		150	
6181		180	
6201		220	
6301		320	
6401		400	
6601		600	

CODE	SIZE	NO.	BATH
6123	1/8 X 1/2 X 6"	120	
6153		150	
6183		180	
6203		220	
6303		320	
6403		400	
6603	600		
6122	1/4 X 1/4 X 6"	120	
6152		150	
6182		180	
6202		220	
6302		320	
6402		400	
6602	600		
6124	1/4 X 1/2 X 6"	120	
6154		150	
6184		180	
6204		220	
6304		320	
6404		400	
6604	600		
6128	3/8 X 3/8 X 6"	120	
6158		150	
6188		180	
6208		220	
6308		320	
6408		400	
6608		600	

CODE	SIZE	NO.	BATH
6125	1/2 X 1/2 X 6"	120	
6155		150	
6185		180	
6205		220	
6305		320	
6405		400	
6605	600		
61T2	1/4 X 6" (三角形)	120	
62T2		180	
63T2		320	
61T8	3/8 X 6" (三角形)	120	
62T8		180	
63T8		320	
E122	1/4 X 6" (圓形)	120	
E152		150	
E182		180	
E222		220	
E302		320	
E402		400	
E602	600		
E123	3/8 X 6" (圓形)	120	
E153		150	
E183		180	
E203		220	
E303		320	
E403		400	
E603		600	

EDM系列

專為研磨經火花機電蝕後之表面部份，切割能力高，但不損壞該鋼材之表皮。

DF สีเทา



CODE	SIZE	NO.	BATH	
2115	1/16 X 1/4 X 4"	150		
2210		220		
2310		320		
2410		400		
2610	600			
2910	900			
2100	1/16 X 1/4 X 6"	150		
2200		220		
2300		320		
2400		400		
2600		600		
2900		900		
2120	1/16 X 1/2 X 6"	150		
2220		220		
2320		320		
2420		400		
2620		600		
2920		900		
2101		1/8 X 1/8 X 6"	150	
2201			220	
2301	320			
2401	400			
2601	600			
2901	900			

CODE	SIZE	NO.	BATH
2103	1/8 X 1/2 X 6"	150	
2203		220	
2303		320	
2403		400	
2603		600	
2903		900	
2102	1/4 X 1/4 X 6"	150	
2202		220	
2302		320	
2402		400	
2602		600	
2902		900	
2104	1/4 X 1/2 X 6"	150	
2204		220	
2304		320	
2404		400	
2604		600	
2904		900	
2108	3/8 X 3/8 X 6"	150	
2208		220	
2308		320	
2408		400	
2608		600	
2908		900	

CODE	SIZE	NO.	BATH
2105	1/2 X 1/2 X 6"	150	
2205		220	
2305		320	
2405		400	
2605		600	
2905		900	
21T2	1/4 X 6" (三角形)	150	
22T2		220	
23T2		320	
24T2	400		
21T8	3/8 X 6" (三角形)	150	
22T8		220	
23T8		320	
24T8	400		
3102	1/4 X 6" (圓形)	150	
3202		220	
3302		320	
3402		400	
3602		600	
3902		900	
3108	3/8 X 6" (圓形)	150	
3208		220	
3308		320	
3408		400	
3608		600	
3908		900	

DF系列 石身半軟硬，含有氧化鋁，有高切削性能，適用於一切未經熱處理之鋼材，最適合一般製模廠所採用。



POLISHING STONES/SUPER STONE/WATERPROOF SANDPAPERS

“BORIDE” POLISHING STONES

NEW SUPER STONE

MADE IN JAPAN

MADE IN USA

(價格: /pc)

ITEM	AS-9 EDM สีส้ม			AO สีขาวข้าง		
	150 180 220	320 400	600	150 220	320 400	600
1/16 X 1/4						
1/16 X 1/2						
1/8 X 1/8						
1/8 X 1/4						
1/8 X 1/2						
1/4 X 1/4						
1/4 X 1/2						
1/4 ROUND						
3/8 ROUND						

“CERATON” CERAMIC SUPER STONE



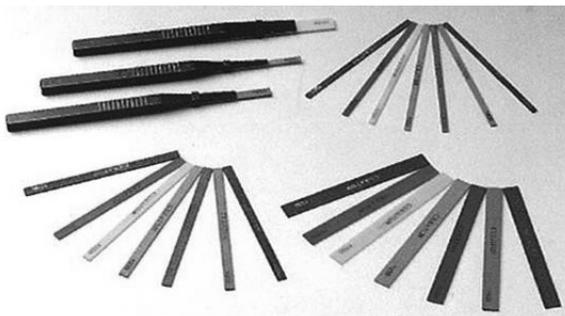
MADE IN JAPAN

日本製造

CODE	GRIT	SIZE	BATH
CSC-1004	สีน้ำตาล#180	1 X 4 X 100	
CSC-1006		1 X 6 X 100	
CSC-1010		1 X 10 X 100	
CSO-1004	สีส้ม#250	1 X 4 X 100	
CSO-1006		1 X 6 X 100	
CSO-1010		1 X 10 X 100	
CSD-1004	สีฟ้า#280	1 X 4 X 100	
CSD-1006		1 X 6 X 100	
CSD-1010		1 X 10 X 100	
CSB-1004	สีฟ้า#400	1 X 4 X 100	
CSB-1006		1 X 6 X 100	
CSB-1010		1 X 10 X 100	
CSY-1004	สีเหลือง#700	1 X 4 X 100	
CSY-1006		1 X 6 X 100	
CSY-1010		1 X 10 X 100	
CSR-1004	สีแดง#1200	1 X 4 X 100	
CSR-1006		1 X 6 X 100	
CSR-1010		1 X 10 X 100	
CGC-30	สีน้ำตาล#180	Ø3 X 100	
CGO-30	สีส้ม #250	Ø3 X 100	
CGD-30	สีฟ้า #280	Ø3 X 100	
CGB-30	สีฟ้า #400	Ø3 X 100	
CGY-30	สีเหลือง #700	Ø3 X 100	
CGR-30	สีแดง1200	Ø3 X 100	

CODE	GRIT	SIZE	BATH
SE102	สีเขียว #120	1 X 2 X 100	
SE104		1 X 4 X 100	
SE106		1 X 6 X 100	
SE110		1 X 10 X 100	
SG102	สีทอง #180	1 X 2 X 100	
SG104		1 X 4 X 100	
SG106		1 X 6 X 100	
SG110		1 X 10 X 100	
SL102	สีน้ำตาล #300	1 X 2 X 100	
SL104		1 X 4 X 100	
SL106		1 X 6 X 100	
SL110		1 X 10 X 100	
SO102	สีส้ม #400	1 X 2 X 100	
SO104		1 X 4 X 100	
SO106		1 X 6 X 100	
SO110		1 X 10 X 100	
SP102	สีฟ้า #600	1 X 2 X 100	
SP104		1 X 4 X 100	
SP106		1 X 6 X 100	
SP110		1 X 10 X 100	
SB102	สีฟ้า #800	1 X 2 X 100	
SB104		1 X 4 X 100	
SB106		1 X 6 X 100	
SB110		1 X 10 X 100	
SW102	สีขาว #1000	1 X 2 X 100	
SW104		1 X 4 X 100	
SW106		1 X 6 X 100	
SW110		1 X 10 X 100	
SR102	สีแดง #1200	1 X 2 X 100	
SR104		1 X 4 X 100	
SR106		1 X 6 X 100	
SR110		1 X 10 X 100	
SED3B	สีเขียว #120	Ø3 X 100	
SGD3B	สีทอง #180	Ø3 X 100	
SLD3B	สีน้ำตาล #300	Ø3 X 100	
SOD3B	สีส้ม #400	Ø3 X 100	
SPD3B	สีฟ้า #600	Ø3 X 100	
SBD3B	สีฟ้า #800	Ø3 X 100	
SWD3B	สีขาว #1000	Ø3 X 100	
SRD3B	สีแดง#1200	Ø3 X 100	

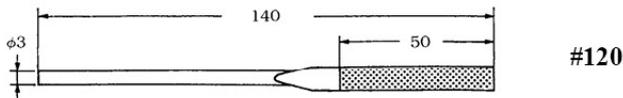
〈註〉 使用纖維油石時，請將工具與工件呈30°-45°，用端面研磨效果最佳。





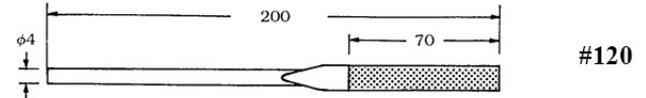
MADE IN TAIWAN

DIAMOND NEEDLE FILE



PF-10 (5pcs/set)

BATH/SET



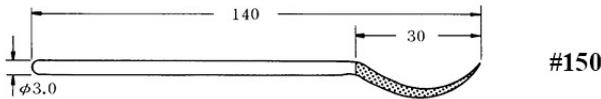
PF-20 (5pcs/set)

BATH/SET

ลักษณะ					
CODE	PF-101	PF-102	PF-103	PF-104	PF-105
BATH					

ลักษณะ					
CODE	PF-201	PF-202	PF-203	PF-204	PF-205
BATH					

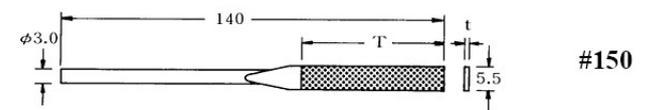
DIAMOND BENT FILES



BF-60 (5pcs/set)

BATH/SET

DIAMOND THIN FLAT FILES



PF-20 (5pcs/set)

BATH/SET

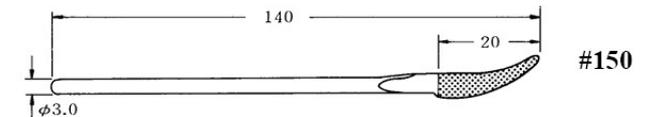
ลักษณะ					
CODE	BF-601	BF-602	BF-603	BF-604	BF-605
BATH					

CODE	PF705	PF708	PF710
T	40	50	50
t	0.5	0.8	1.0
BATH			

DIAMOND BENT FILES

BF-90 (10pcs/set)

BATH/SET



ลักษณะ										
CODE	BF-901	BF-902	BF-903	BF-904	BF-905	BF-906	BF-907	BF-908	BF-909	BF-910
BATH										

DIAMOND NEEDLE TAPER FILES

PTF-10 (10pcs/set)

BATH/SET

	<p>PTF-16F(#200) PTF-16V(#400) PTF-16X(#600)</p>		<p>PTF-12F(#200) PTF-12V(#400) PTF-12X(#600)</p>
	<p>PTF-14F(#200) PTF-14V(#400) PTF-14X(#600)</p>		<p>PTF-103X(#600)</p>



MADE IN TAIWAN

DIAMOND NEEDLE FILE

CF-400 (12pcs/set)

BATH/SET

	CF-408J(#150) CF-408F(#200) CF-408V(#400)		CF-404J(#150) CF-404F(#200) CF-404V(#400)
	CF-406J(#150) CF-406F(#200) CF-406V(#400)		CF-402J(#150) CF-402F(#200) CF-402V(#400)
註：CF-400單支價格： CF-402 CF-404 CF-406 CF-408.....			

CF-500 (5pcs/set)

BATH/SET

#200	NO.	T	#200	NO.	T
	CF-501	70		CF-504	50
	CF-502	60		CF-505	50
	CF-503	60	註：CF-500單支價格： CF-503 CF-501 CF-504 CF-502 CF-505		

DIAMOND MACHINE TAPER FILES

MTF-100 (12pcs/set)

BATH/SET 單支價格：

BATH/SET

	MTF-13F(#200) MTF-13V(#400) MTF-13X(#600)		MTF-23F(#200) MTF-23V(#400) MTF-23X(#600)
	MTF-16F(#200) MTF-16V(#400) MTF-16X(#600)		MTF-26F(#200) MTF-26V(#400) MTF-26X(#600)

MTP-120 (12pcs/set)

BATH/SET 單支價格：

BATH/PC

	MTP-12J (#150) MTP-12F (#200) MTP-12H (#300) MTP-12V (#400)		MTP-16J (#150) MTP-16F (#200) MTP-16H (#300) MTP-16V (#400)
	MTP-14J (#150) MTP-14F (#200) MTP-14H (#300) MTP-14V (#400)		



MADE IN TAIWAN

DIAMOND MACHINE FILES

BATH/SET

MPF-10 (5pcs/set)	BATH/SET	CODE	ลักษณะ	SIZE
		MPF-101		4 X 2
		MPF-102		5 X 2
		MPF-103		Ø3
		MPF-104		2.5 X 2.5
		MPF-109		5 X 2

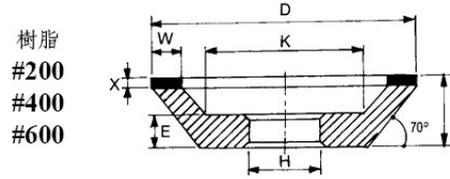
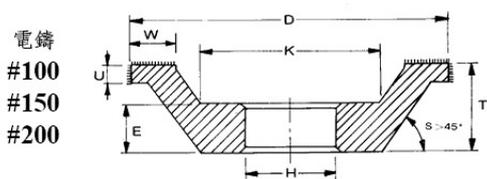
DIAMOND MACHINE FILES

BATH/SET

MBF-90 (10pcs/set)	BATH/SET	CODE	ลักษณะ	SIZE
		MBF-901		5.8x1.2
		MBF-902		3.2x1.4
		MBF-903		5x2
		MBF-904		3.2x1.4
		MBF-905		Ø3
		MBF-906		Ø3
		MBF-907		2.5 Side
		MBF-908		3.2x1.4
		MBF-909		3.2x1.4
		MBF-910		4x2

MBF-60 (4pcs/set)	BATH/SET	CODE	ลักษณะ	SIZE
		MBF-601		4x1.2
		MBF-602		5x2
		MBF-603		Ø3
		MBF-604		2.5x2.5

DIAMOND MACHINE FILES



CODE	SIZE	BATH
GW101100	100D x 10W x 5U x 35T x 20H	
GW101150	100D x 10W x 5U x 35T x 20H	
Gw101200	100D x 10W x 5U x 35T x 20H	
GW102100	100D x 10W x 5U x 35T x 3/4H	
GW102150	100D x 10W x 5U x 35T x 3/4H	
GW102200	100D x 10W x 5U x 35T x 3/4H	

CODE	SIZE	BATH
GW103200	100D x 8W x 3X x 30T x 20H	
GW103400	100D x 8W x 3X x 30T x 20H	
GW103600	100D x 8W x 3X x 30T x 20H	
GW104200	100D x 8W x 3X x 30T x 3/4H	
GW104400	100D x 8W x 3X x 30T x 3/4H	
GW104600	100D x 8W x 3X x 30T x 3/4H	



DIAMOND DRESSERS

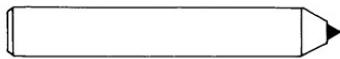
MADE IN TAIWAN

FORMER DIAMOND DRESSERS



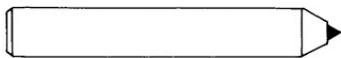
CODE	SIZE	使用參考	BATH
DS192	1/4 x 2" x 60° (BD70)	1/15	
DS193	3/8 x 2" x 60° (BD70)	1/15	
DS195	1/4 x 2" x 60° (BD60)	1/20	
DS196	3/8 x 2" x 60° (BD60)	1/20	
DS198	1/4 x 2" x 60° (BD50)	1/30	
DS199	3/8 x 2" x 60° (BD50)	1/30	
DS200	1/8 x 2" x 60° (BD40)	1/50	
DS201	1/4 x 2" x 60° (BD40)	1/40	
DS202	3/8 x 2" x 60° (BD40)	1/40	
DS203	1/8 x 2" x 60° (BD30)	1/60	
DS204	1/4 x 2" x 60° (BD30)	1/50	
DS205	3/8 x 2" x 60° (BD30)	1/50	

SINGLE POINT DRESSERS DIAMOND



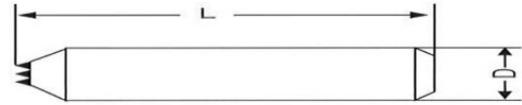
CODE	SIZE	BATH
DS210	3/8 x 6" x 0.25CT	
DS211	1/2 x 6" x 0.25CT	
DS212	1/2 x 6" x 0.5CT	
DS213	3/8 x 6" x 0.5CT	

SINGLE POINT DIAMOND DRESSERS



CODE	SIZE	BATH
DS220	Ø10 x 80L (#10)	0.20CT
DS221	Ø12 x 100L (#10)	0.20CT
DS222	Ø10 x 80L (#15)	0.25CT
DS223	Ø12 x 100L (#15)	0.25CT
DS224	Ø10 x 80L (#20)	0.35CT
DS225	Ø12 x 100L (#20)	0.35CT
DS226	Ø10 x 80L (#25)	0.5CT
DS227	Ø12 x 100L (#25)	0.5CT
DS228	Ø12 x 100L (#33)	0.75CT
DS229	Ø12 x 100L (#50)	1.0CT

MULTI POINT DIAMOND DRESSERS



CODE	SIZE	使用參考	ลักษณะ	BATH
DS301	Ø12 x 100L	3	▲▲▲	
DS302	Ø12 x 100L	3	▲▲▲	
DS303	Ø12 x 100L	5	▲▲▲	
DS304	Ø12 x 100L	6	▲▲▲	
DS305	Ø12 x 100L	7	▲▲▲	

IMPREGNATED DIAMOND DRESSERS

名稱	ลักษณะ	SIZE (mm)
方形結合修刀		Ø12 x 100L
圓柱形結合修刀		Ø12 X 50L Ø10 X 50L
手持式結合修刀		Ø12 X 150L

備選粒度說明

備選粒度	鑽石粒度	適用被修整砂輪 粒度
R	#16/20+#20/30	#60以下
M	#30/40	#80----#120
F	#40/50	#150以上

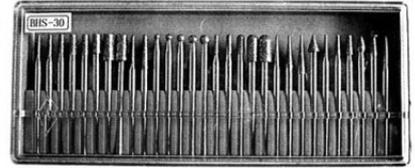
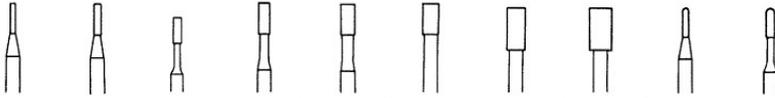


DIAMOND ENGRAVING BURRS

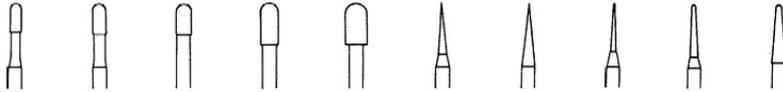
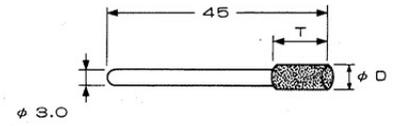
MADE IN TAIWAN

BMS-30 (30pcs/set)

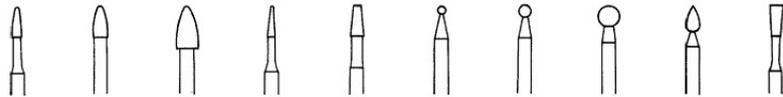
BATH/SET



NO.	BM10A	BM15A	BM20A	BM25A	BM30A	BM35A	BM40A	BM50A	BM15C	BM20C
Ø D	1.0	1.5	2.0	2.5	3.0	3.5	4.0	5.0	1.5	2.0
T	7	7	7	7	7	7	10	10	7	7
BATH										



NO.	BM25C	BM30C	BM35C	BM40C	BM50C	BM20P	BM30P	BM15R	BM20R	BM30R
Ø D	2.5	3.0	3.5	4.0	5.0	2.0	3.0	1.5	2.0	3.0
T	7	7	7	10	10	12	15	12	12	14
BATH										

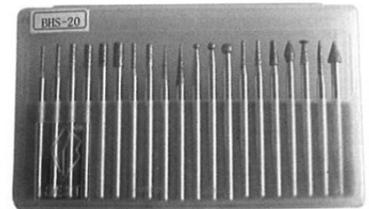
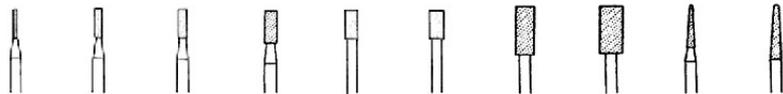


NO.	BM20F	BM30F	BM50F	BM20T	BM30T	BM20B	BM30B	BM50B	BM30S	BM30V
Ø D	2.0	3.0	5.0	2.0	3.0	2.0	3.0	5.0	3.0	3.0
T	7	7	10	7	7	-	-	-	6	7
BATH										

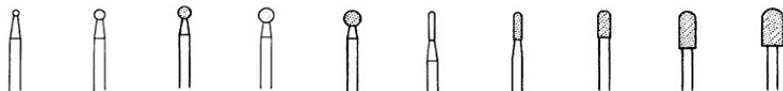
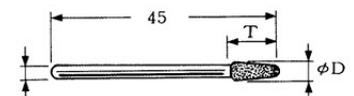
BHS-20 (20pcs/set)

BHS-30 (30pcs/set)

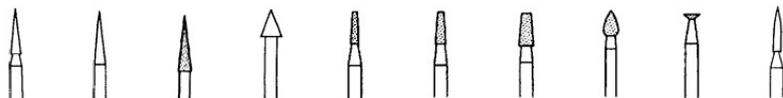
BATH/SET



NO.	BH11A	BH14A	BH19A	BH24A	BH27A	BH32A	BH39A	BH49A	BH14R	BH24R
Ø D	1.1	1.4	1.9	2.4	2.7	3.2	3.9	4.9	1.4	2.4
T	7	7	7	7	7	7	10	10	10	13
BATH										



NO.	BH20B	BH24B	BH30B	BH35B	BH39B	BH14C	BH19C	BH29C	BH39C	BH49C
Ø D	2.0	2.4	3.0	3.5	3.9	1.4	1.9	2.9	3.9	4.9
T	-	-	-	-	-	7	7	7	10	10
BATH										

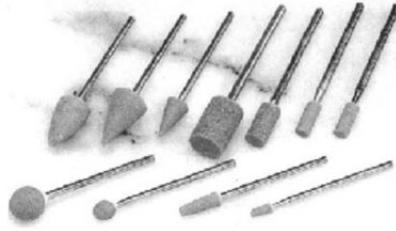


NO.	BH18P	BH24P	BH29P	BH42P	BH14T	BH19T	BH26T	BH30S	BH30Y	BH17J
Ø D	1.8	2.4	2.9	4.2	1.4	1.9	2.6	3.0	3.0	1.7
T	10	12	14	6	7	7	7	6	-	10
BATH										



MOUNTED POINTS/ TOOLS FOR AIR GRINDERS

หินเจียรระไน แกน 3 มม



MOUNTED POINTS

(柄徑 3/32 或 3.0mm)

每盒100支

SIZE										
CODE	256A	308A	410A	510A	612A	816A	1016A	1220A	310T	412T
SIZE										
CODE	710T	30B	40B	60B	80B	100B	306K	412K	515K	816K
SIZE										
CODE	813R	1224R	412J	616J	816J	1016J	612P	815P	1018P	133E
BATH										

彎頭氣動打磨機專用工具

ลักษณะ			
	RUBBER PAD	#60, #100, #150, #240, #320, #400 PAPER DISC	CUP WHEELS
CODE	300F	300D	306E
BATH			

ELASTIC MOUNTED POINTS

100

ขนาด					
	牛皮 /RESINOLD: 粒度 #120 柄徑 3/32				
BATH	N413	N515	N617	N820	N1020
	海棉 /RUBBERIZE: 粒度 #120 柄徑 3/32 或 3.0mm				
CODE	R413	R515	R617	R820	R1020
BATH	N413	N515	N617	N820	N1020

★ 牛皮砂輪: 具有良好的研磨性能, 可迅速去除工件表面之加工痕跡, 可當做初步的拋磨作業用。

海棉砂輪: 銳利性較差, 卻有良好的拋光效果, 可得較緻的表面

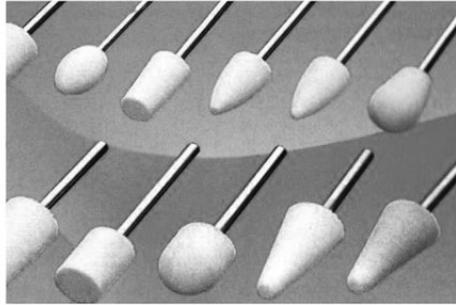


FELT BOBS/FELT WHEELS

MADE IN GERMANY

FELT BOBS

柄部3/32 แขนง 3.0mm
 直徑20mm全部為3mm柄
 訂購時請說明

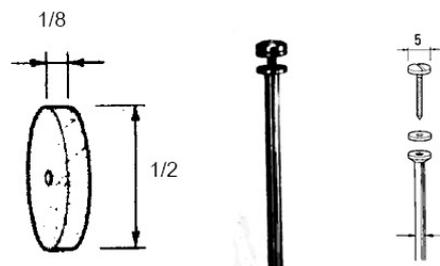


ลักษณะ												
	CODE	515AF	615AF	816AF	1020AF	1220AF	1520AF	2025AF	80BF	100BF	120BF	150BF
	SIZE	5 x 15	6 x 15	8 x 16	10 x 20	12 x 20	15 x 20	20 x 25	Ø8	Ø10	Ø12	Ø15
	BATH											
ลักษณะ												
	CODE	516JF	616JF	816JF	1020JF	1221JF	1525JF	616KF	816KF	1020KF	1221KF	1525KF
	SIZE	5 x 16	6 x 16	8 x 16	10 x 20	12 x 21	15 x 25	6 x 16	8 x 16	10 x 20	12 x 21	15 x 25
	BATH											
ลักษณะ												
	CODE	1016QF	1320QF	1018TF	1220TF	810RF	1013RF	1320RF	1520RF	2025RF	606UF	1313UF
	SIZE	10 x 16	13 x 20	10 x 18	12 x 20	8 x 10	10 x 13	13 x 20	15 x 20	20 x 25	6.5 x 6.5	13 x 13
	BATH											

FELT WHEELS

柄部3/32 แขนง 3.0mm

CODE	SIZE	BATH
1203EF	1/2 X 1/8 X 1/16	
1503EF	5/8 X 1/8 X 1/16	
2003EF	3/4 X 1/8 X 1/16	
2503EF	1" X 1/8 X 1/16	
2506EF	1" X 1/4 X 1/16	
3206EF	1-1/4 X 1/4 X 1/16	

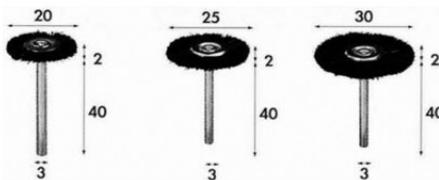
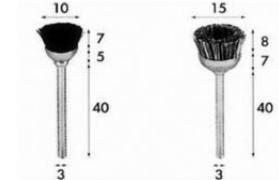




BRUSHES

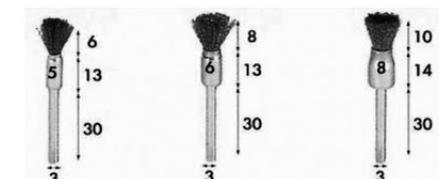
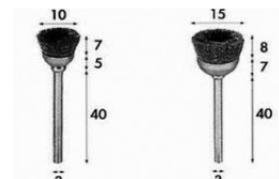
YE Series

Horse Hair Brushes

ลักษณะ									
	CODE	YEA 5	YEA 6	YEA 8	YET 20	YET 25	YET 30	YEF 10	YEF 15
	BATH								

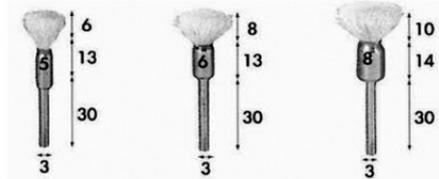
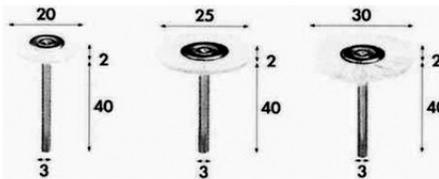
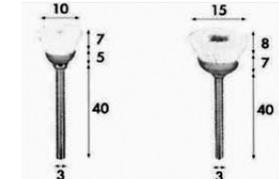
YB Series

Copper Wire Brushes

ลักษณะ									
	CODE	YBA 5	YBA 6	YBA 8	YBT 20	YBT 25	YBT 30	YBF 10	YBF 15
	BATH								

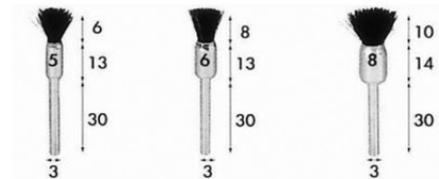
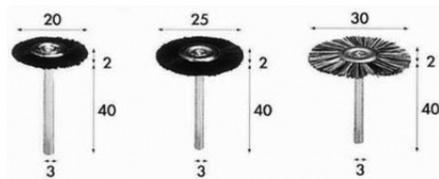
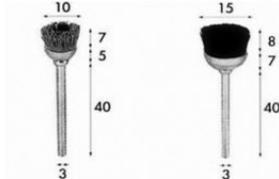
YX Series

Wool Brushes

ลักษณะ									
	CODE	YXA 5	YXA 6	YXA 8	YXT 20	YXT 25	YXT 30	YXF 10	YXF 15
	BATH								

YO Series

Boar Hair Brushes

ลักษณะ									
	CODE	YOA 5	YOA 6	YOA 8	YOT 20	YOT 25	YOT 30	YOF 10	YOF 15
	BATH								



BRUSHES

YS Series

Stainless Steel Wire Brushes

ลักษณะ								
	CODE	YSA 5	YSA 6	YSA 8	YST20	YST 25	YST 30	YSF 10
BATH								

YC Series

Stainless Steel Nylon Brushes

ลักษณะ								
	CODE	YCA 5	YCA 6	YCA 8	YCT 20	YCT 25	YCT 30	YCF 10
BATH								

LA Series

Contact Wheels

ลักษณะ					
CODE	LA 34	LA 44	LA 55	LA 66	LA 110
BATH					

LP Series

Rubber Handleless

ลักษณะ							
CODE	LP 343	LP346	LP443	LP446	LP556	LP666	LP116
BATH							



Horizontal / Vertical Rotary Table

- HV-4 (4") HV-6 (6")
- HV-8 (8") HV-10 (10")
- HV-12 (12") HV-14 (14")
- HV-16 (16")

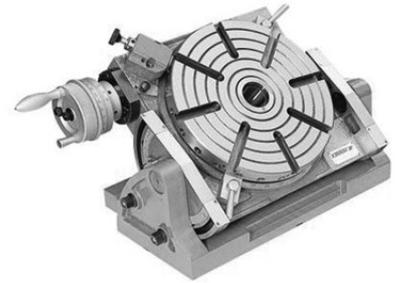


Super Indexing Spacer

- CS-6 (6")
- CS-8 (8")

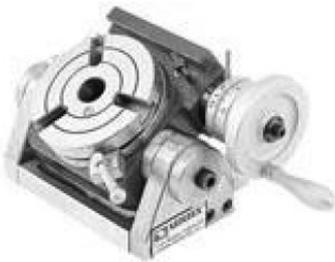


Universal Tilting Rotary Table * VU-300 (12")



Universal Tilting Rotary Table

- * VU-100 (4")
- * VU-150 (6")
- * VU-200 (8")



Economical Type Rapid Index

- * VSI-4 (4")
- * VSI-5 (5")



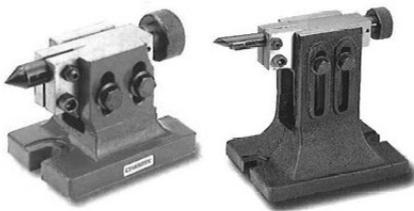
A.Dividing Plates

- * DP-1 * DP-2
- * DP-3 * DP-4
- * DP-5



B.Tailstock

- * TS-1 * TS-2
- * TS-3 * TS-4



Universal Dividing Head

BS-2 (Applicable Chuck 8")



Semi-Universal Dividing Head

- BS-0 (可配三爪卡盤4" 或5")
- BS-1 (可配三爪卡盤6")
- BS-0+VSC4 (連原裝三爪卡盤4")
- BS-0+VSC5 (連原裝三爪卡盤5")
- BS-1+VSC6 (連原裝三爪卡盤6")



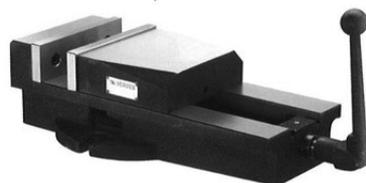
Ang-Fixed Milling Vise

- 有底盤 無底盤
- VA-4 (4") VA-4-1
- VA-5 (5") VA-5-1
- VA-6 (6") VA-6-1
- VA-8 (8") VA-8-1
- VD-675 VD-675-1
- (6" opened 7-1/2")



Ang-Fixed Milling Vise

VA-8L
(8" opened 10-1/4")



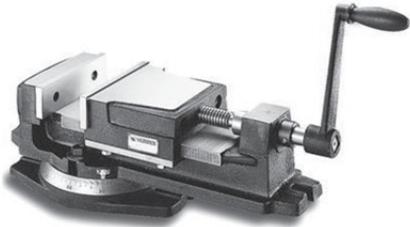
Super Open Vise

- VJ-400 (4")
- VJ-500 (5")
- VJ-600 (6")

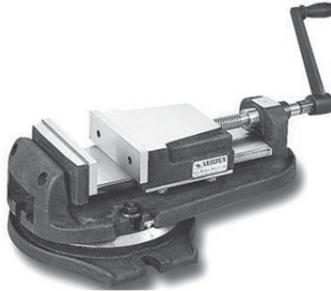




K-Type Milling Vise
 VK-4 (4") VK-5 (5")
 VK-6 (6") VK-8 (8")



B-Type Milling Vise
 * VBV-4 (4")
 * VBV-5 (5")
 * VBV-6 (6")



Compound Precision Vise
 * VCV-44 (4")
 (開口:195mm)



Tilting Hydraulic Machine Vise
 VHT-4 (4")
 VHT-6 (6")



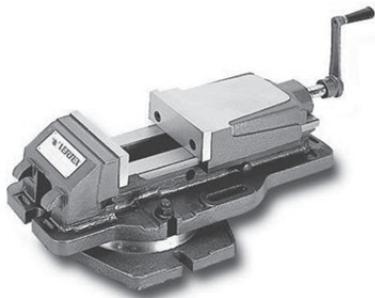
2-Way Angle Milling Vise
 VWT-4 (4")
 VWT-5 (5")
 VWT-6 (6")



3-Way Angle Milling Vise
 VW-4 (4")
 VW-5 (5")



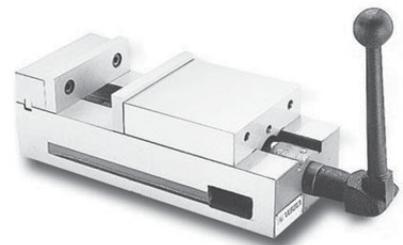
Hydraulic Machine Vise
 VH-4-1 VH-5-1
 VH-6-1 VH-8-1



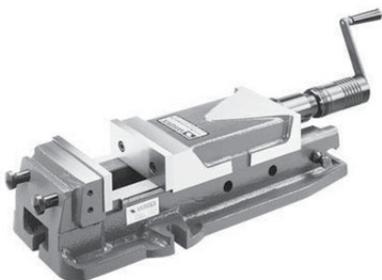
Hydraulic Machine Vise
 VHO-5 (5")
 VHO-6 (6")
 * VHO-8 (8")



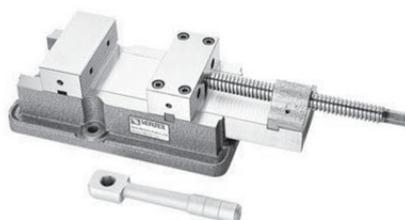
Lock-Fixed II Precision Machine Vise
 VMC-4 (4")
 VMC-6 (6")



Hydr. Ang-Fixed Vise
 VAF-4 (4")
 VAF-6 (6")
 * VAF-8 (8")



Heavy Duty Milling Vise
 * VCH-6 (6")



Double Clamp Vise
 * VMC-6D (6")





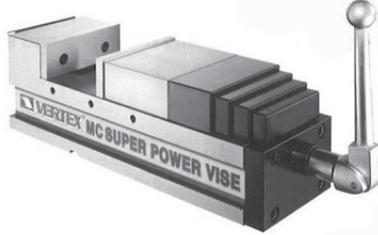
MC Power Vise

- * VQX-125
- * VQX-160
- * VQX-160L



Mechanical Type

- * VMC-100M (4")
- * VMC-130M (5")
- * VMC-160M (6")
- * VMC-200M (8")



MC Power Machine Vise

- * VMC-100HV (4")
- VMC-130HV (5")
- VMC-160HV (6")
- * VMC-200HV (8")

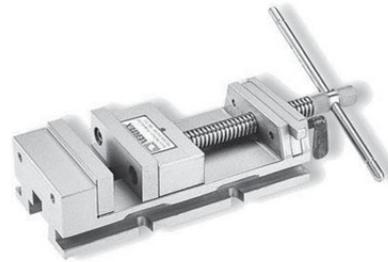


Precision Pneumatic Ang-Fixed Power Vise

- * VMC-5P (5")
- * VMC-6P (6")

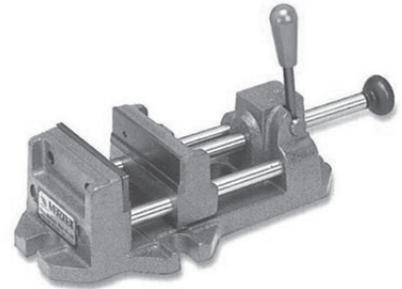
Quick Setting Vise

- VQS-3 (3")
- VQS-4 (4")
- * VQS-5 (5")



Quick Vise

- DV-3 (3")



Free Vise

- FV-350 (3")
- FV-450 (4")
- FV-550 (5")



Free Vise

- SV-62 (65 X 140 X 60)
- SV-85 (90 X 193 X 85)
- SV-125 (124 X 220 X 95)



Precision Right Angle Plate

- VRH-4" (4 X 5 X 6")
- * VRH-5" (5 X 8 X 12")
- VRH-6" (6 X 6 X 8")
- VRH-8" (8 X 10 X 12")



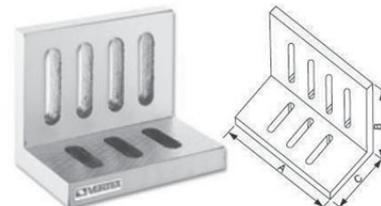
Right Angle Plate

- VR-4 (4 X 3 X 2-1/2")
- VR-6 (6 X 5 X 4-1/2")
- VR-8 (8 X 6 X 5")
- VR-10 (10 X 8 X 6")
- VR-12 (12 X 9 X 8")



Slotted Angle Plates

- VR-45 (4-1/2")
- VR-60 (6")
- VR-80 (8")
- VR-100 (10")
- VR-120 (12")



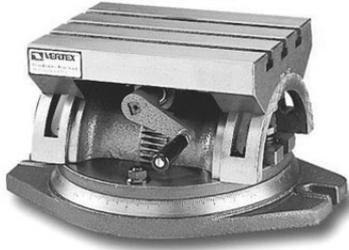
Precision Cross Table

- VCT-514 (6 X 14")

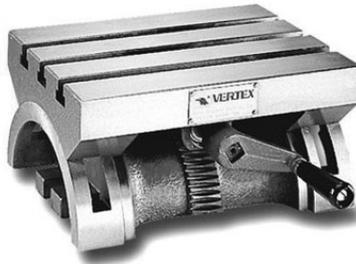




Angle Plate With Swivel Base
 VP-250S
 VP-380S



Adjustable Angle Plate
 VP-180 (7 X 5")
 VP-250 (10 X 7")
 VP-380 (15 X 10")



Boring Head
 * V-BHAM-R8
 * V-BHAM-NT30
 * V-BHAM-NT40
 * V-BHAM-BT40
 * V-BHAM-BT50



Right Angle Head
 VRA-R8
 VRA-NT40



Horizontal Milling Attachment
 VHA-R8



Boring Head Shank C-type
 V-BC-2 (2") (2" 及3" 附搪刀桿壹支)
 V-BC-3 (3") V-BC-4 (4")



Boring Head
 V-BB-R8
 V-BB-NT30 V-BB-NT40
 V-BB-BT40
 V-BB-BT50



Type Boring Head
 V-BC3-R8
 V-BC2-R8
 焊接式搪刀
 VBCR8-1060 Ø10 X 60
 VBCR8-1070 Ø10 X 70
 VBCR8-1080 Ø10 X 80
 VBCR8-1890 Ø18 X 90
 VBCR8-18120 Ø18 X 120
 搪刀桿
 VBCR8-A1890 Ø18 X 90
 VBCR8-A18120 Ø18 X 120



3D-Taster
 V-3D
 (Ø4 X 33mm standard stylus)
3D-Taster
 V-3D-05 (Ø4 X 33L)
 V-3D-06 (Ø8 X 75L)



Precision Parallels
 * VP-136 (36pcs/set)



Thin Type Parallels Set & Precision Parallels
 VP-018 (1/8", 20pcs)
 VP-064 (1/4", 18pcs)





Ground Parallels
 VP-100(18pcs)



Ground Parallels
 VP-118A (8.5mm. Width)



Ground Parallels
 VP-128A (28pcs/set)

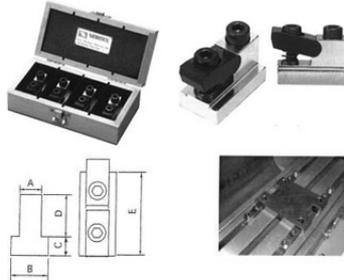


U-Clamp
 VCA-404 (1/2)
 VCA-405 (5/8)
 VCA-406 (3/4)

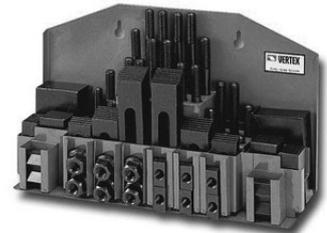


T Slot Clamps

CODE	A	B	C	D	E
CK-3712	11.5	18	7	16	38
CK-3714	13.5	22	8	18	40
CK-3716	15.5	25	8	21	45
CK-3718	17.5	28	11	24	45
CK-3720	19.5	32	12	26	50



52-Pc Steel Clamping Kit
 CK-103B (3/8) CK-104B (1/2)
 CK-105A (5/8) CK-12B (12mm)
 CK-12A (12mm) CK-14 (14mm)
 CK-16 (16mm) * CK-18 (18mm)
 CK-20 (20mm)



Vee Blocks
 V2V (2") V3V (3")
 V4V (4") V5V (5")
 V6V (6")



2pcs/set

Draw Bar
 VDR-R8-S (7/16x20-3/8")
 VDR-R8-A (7/16x23-3/8")
 VDR-NT302-S (1/2x555mm)
 VDR-NT302-A (1/2x635mm)
 VDR-NT30M-S (12x555mm)
 VDR-NT30M-A (12x635mm)
 VDR-NT40I-S (5/8x545mm)
 VDR-NT40I-A (5/8x630mm)
 VDR-NT40I-L (5/8x680mm)
 VDR-NT40M-S (16x545mm)
 VDR-NT40M-A (16x630mm)
 VDR-NT40M-L (16x680mm)



Power Table Feed
 VPF-250



End Mill Sheath Rack
 VMS-2



Tooling Trolleys
 VTT-2-30 (BT30)
 VTT-2-40 (BT40)
 VTT-2-50 (BT50)



Tooling Trolleys
 * VTT-5-30 (BT30)
 VTT-5-40 (BT40)
 * VTT-5-50 (BT50)





**Height Presetter ,
Z-Zero-Setter**
 HP-100(4")
 HP-50A (50mm)
 HP-50B (50mm)



Electronic Tool Length Setter
 HP-50EM (閃光式)
 * HP-100EM (閃光式)
 HP-50ZM (50mm)



HP-100EM HP-50EM HP-50ZM

Simple Type Tool Setting Stand
 VTS-BT30
 VTS-BT40
 VTS-BT50



Deluxe Type Tool Setting Stand
 VTD-1 (BT40)
 VTD-2 (BT50)



Tool Holder Locking Device
 VTL-BT40
 VTL-BT50

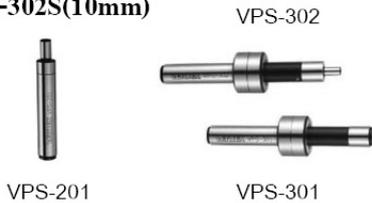


Touch Point Sensor
 VPS-20
 VPS-32 VPS-20B (有聲)
 VPS-32B (有聲)



柄部φ20mm及φ32mm

Touch Point Sensor
 VPS-201 (10mm)
 VPS-201I (3/8)
 VPS-301 (10mm)
 VPS-302 (10mm)
 VPS-302I (3/8)
 VPS-301S(10mm)
 VPS-302S(10mm)



Touch Point Sensor
 VPS-201C
 VPS-301C

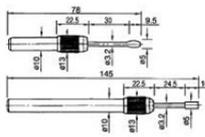


VPS-301C

Eye Shield
 VH-56



Touch Point Sensor
 VPS-401 (10mm)



Expandable Machine Guard Cover



VGC-3833F (380 X 330mm)
 VGC-3860F (380 X 600mm)
 VGC-4550F (450 X 500mm)
 保護膠板
 VGC-3775B (370 X 750mm)
 VGC-4585B (450 X 850mm)

Spindle Taper Wiper
 VTW-30 (BT30)
 VTW-40 (BT40)
 VTW-50 (BT50)





Milling Chucks

ER 高速動平衡夾頭
 x20000RPM(轉速)



CODE	TAPER	BAHT
GSH-111	B-BT30-ER16-70L	
GSH-112	B-BT30-ER16-100L	
GSH-115	B-BT30-ER20-70L	
GSH-116	B-BT30-ER20-100L	
GSH-118	B-BT30-ER25-70L	
GSH-119	B-BT30-ER25-100L	
GSH-121	B-BT30-ER32-70L	
GSH-122	B-BT30-ER32-100L	
GSH-126	B-BT40-ER16-60L	
GSH-127	B-BT40-ER16-100L	
GSH-130	B-BT40-ER20-70L	
GSH-131	B-BT40-ER20-100L	
GSH-134	B-BT40-ER25-60L	
GSH-135	B-BT40-ER25-100L	
GSH-138	B-BT40-ER32-75L	
GSH-139	B-BT40-ER32-100L	
GSH-142	B-BT40-ER40-80L	
GSH-151	HSKA63-ER16B-75L	
GSH-152	HSKA63-ER16B-100L	
GSH-155	HSKA63-ER20B-75L	
GSH-156	HSKA63-ER20B-100L	
GSH-158	HSKA63-ER25-75L	
GSH-159	HSKA63-ER25-100L	

扳手

CODE	TAPER	BAHT
GSH-811	ER16HB	
GSH-812	ER20HB	
GSH-813	ER25HB	
GSH-814	ER32HB (用V-812代替)	



Collet Chuck

CODE	TAPER	BAHT
GSH-321	BT40-C32-105	
GSH-331	BT50-C32-105	

Milling Chucks

精度: 0.01mm



ER-11

CODE	規格 (mm)	範圍 (mm)	BAHT
GER11-010	1.0	1.0-0.5	
GER11-015	1.5	1.5-1.0	
GER11-020	2.0	2.0-1.5	
GER11-025	2.5	2.5-2.0	
GER11-030	3.0	3.0-2.5	
GER11-035	3.5	3.5-3.0	
GER11-040	4.0	4.0-3.5	
GER11-045	4.5	4.5-4.0	
GER11-050	5.0	5.0-4.5	
GER11-055	5.5	5.5-5.0	
GER11-060	6.0	6.0-5.5	
GER11-065	6.5	6.5-6.0	

*** รหัส GER ยกเลิกการผลิต

HIGH PRECISION ER COLLET

精度: 0.01mm



ER-16

CODE	規格 (mm)	範圍 (mm)	BAHT
GER16-010	1.0	1.0-0.5	
GER16-020	2.0	2.0-1.0	
GER16-030	3.0	3.0-2.0	
GER16-040	4.0	4.0-3.0	
GER16-050	5.0	5.0-4.0	
GER16-060	6.0	6.0-5.0	
GER16-070	7.0	7.0-6.0	
GER16-080	8.0	8.0-7.0	
GER16-090	9.0	9.0-8.0	
GER16-100	10	10-9.0	

ER-20

CODE	規格 (mm)	範圍 (mm)	BAHT
GER20-010	1.0	1.0-0.5	
GER20-020	2.0	2.0-1.0	
GER20-030	3.0	3.0-2.0	
GER20-040	4.0	4.0-3.0	
GER20-050	5.0	5.0-4.0	
GER20-060	6.0	6.0-5.0	
GER20-070	7.0	7.0-6.0	
GER20-080	8.0	8.0-7.0	
GER20-090	9.0	9.0-8.0	
GER20-100	10	10-9.0	
GER20-110	11	11-10	
GER20-120	12	12-11	
GER20-130	13	13-12	

ER-25

CODE	規格 (mm)	範圍 (mm)	BAHT
GER25-020	2.0	2.0-1.5	
GER25-030	3.0	3.0-2.0	
GER25-040	4.0	4.0-3.0	
GER25-050	5.0	5.0-4.0	
GER25-060	6.0	6.0-5.0	
GER25-070	7.0	7.0-6.0	
GER25-080	8.0	8.0-7.0	
GER25-090	9.0	9.0-8.0	
GER25-100	10	10-9.0	
GER25-110	11	11-10	
GER25-120	12	12-11	
GER25-130	13	13-12	
GER25-140	14	14-13	
GER25-150	15	15-14	
GER25-160	16	16-15	

ER-25

CODE	規格 (mm)	範圍 (mm)	BAHT
GER32-030	3.0	3.0-2.0	
GER32-040	4.0	4.0-3.0	
GER32-050	5.0	5.0-4.0	
GER32-060	6.0	6.0-5.0	
GER32-070	7.0	7.0-6.0	
GER32-080	8.0	8.0-7.0	
GER32-090	9.0	9.0-8.0	
GER32-100	10	10-9.0	
GER32-110	11	11-10	
GER32-120	12	12-11	
GER32-130	13	13-12	
GER32-140	14	14-13	
GER32-150	15	15-14	
GER32-160	16	16-15	
GER32-170	17	17-16	
GER32-180	18	18-17	
GER32-190	19	19-18	
GER32-200	20	20-19	



ER Spring Collet Chuck System

精度: 0.015-0.02mm



ER-11

CODE	規格 (mm)	範圍 (mm)	BAHT
ER08-010	1.0	1.0-0.5	
ER08-015	1.5	1.5-1.0	
ER08-020	2.0	2.0-1.5	
ER08-025	2.5	2.5-2.0	
ER08-030	3.0	3.0-2.5	
ER08-035	3.5	3.5-3.0	
ER08-040	4.0	4.0-3.5	
ER08-045	4.5	4.5-4.0	
ER08-050	5.0	5.0-4.5	

ER-11

CODE	規格 (mm)	範圍 (mm)	BAHT
ER11-010	1.0	1.0-0.5	
ER11-015	1.5	1.5-1.0	
ER11-020	2.0	2.0-1.5	
ER11-025	2.5	2.5-2.0	
ER11-030	3.0	3.0-2.5	
ER11-035	3.5	3.5-3.0	
ER11-040	4.0	4.0-3.5	
ER11-045	4.5	4.5-4.0	
ER11-050	5.0	5.0-4.5	
ER11-055	5.5	5.5-5.0	
ER11-060	6.0	6.0-5.5	
ER11-065	6.5	6.5-6.0	

ER-16

CODE	規格 (mm)	範圍 (mm)	BAHT
ER16-010	1.0	1.0-0.5	
ER16-020	2.0	2.0-1.0	
ER16-030	3.0	3.0-2.0	
ER16-040	4.0	4.0-3.0	
ER16-050	5.0	5.0-4.0	
ER16-060	6.0	6.0-5.0	
ER16-070	7.0	7.0-6.0	
ER16-080	8.0	8.0-7.0	
ER16-090	9.0	9.0-8.0	
ER16-100	10	10-9.0	

ER-20

CODE	規格 (mm)	範圍 (mm)	BAHT
ER20-010	1.0	1.0-0.5	
ER20-020	2.0	2.0-1.0	
ER20-030	3.0	3.0-2.0	
ER20-040	4.0	4.0-3.0	
ER20-050	5.0	5.0-4.0	
ER20-060	6.0	6.0-5.0	
ER20-070	7.0	7.0-6.0	
ER20-080	8.0	8.0-7.0	
ER20-090	9.0	9.0-8.0	
ER20-100	10	10-9.0	
ER20-110	11	11-10	
ER20-120	12	12-11	
ER20-130	13	13-12	

ER-25

CODE	規格 (mm)	範圍 (mm)	BAHT
ER25-020	2.0	2.0-1.5	
ER25-030	3.0	3.0-2.0	
ER25-040	4.0	4.0-3.0	
ER25-050	5.0	5.0-4.0	
ER25-060	6.0	6.0-5.0	
ER25-070	7.0	7.0-6.0	
ER25-080	8.0	8.0-7.0	
ER25-090	9.0	9.0-8.0	
ER25-100	10	10-9.0	
ER25-110	11	11-10	
ER25-120	12	12-11	
ER25-130	13	13-12	
ER25-140	14	14-13	
ER25-150	15	15-14	
ER25-160	16	16-15	

ER-50

CODE	規格 (mm)	範圍 (mm)	BAHT
ER50-1210	12	12-10	
ER50-1412	14	14-12	
ER50-1614	16	16-14	
ER50-1816	18	18-16	
ER50-2018	20	20-18	
ER50-2220	22	22-20	
ER50-2422	24	24-22	
ER50-2624	26	26-24	
ER50-2826	28	28-26	
ER50-3028	30	30-28	
ER50-3230	32	32-30	
ER50-3432	34	34-22	

ER-32

CODE	規格 (mm)	範圍 (mm)	BAHT
ER32-030	3.0	3.0-2.0	
ER32-040	4.0	4.0-3.0	
ER32-050	5.0	5.0-4.0	
ER32-060	6.0	6.0-5.0	
ER32-070	7.0	7.0-6.0	
ER32-080	8.0	8.0-7.0	
ER32-090	9.0	9.0-8.0	
ER32-100	10	10-9.0	
ER32-110	11	11-10	
ER32-120	12	12-11	
ER32-130	13	13-12	
ER32-140	14	14-13	
ER32-150	15	15-14	
ER32-160	16	16-15	
ER32-170	17	17-16	
ER32-180	18	18-17	
ER32-190	19	19-18	
ER32-200	20	20-19	

ER-32

CODE	規格 (mm)	範圍 (mm)	BAHT
ER40-040	4.0	4.0-3.0	
ER40-050	5.0	5.0-4.0	
ER40-060	6.0	6.0-5.0	
ER40-070	7.0	7.0-6.0	
ER40-080	8.0	8.0-7.0	
ER40-090	9.0	9.0-8.0	
ER40-100	10	10-9.0	
ER40-110	11	11-10	
ER40-120	12	12-11	
ER40-130	13	13-12	
ER40-140	14	14-13	
ER40-150	15	15-14	
ER40-160	16	16-15	
ER40-170	17	17-16	
ER40-180	18	18-17	
ER40-190	19	19-18	
ER40-200	20	20-19	
ER40-210	21	21-20	
ER40-220	22	22-21	
ER40-230	23	23-22	
ER40-240	24	24-23	
ER40-250	25	25-24	
ER40-260	26	26-25	



VERTEX

ER Spring Collet Chuck System



CODE	TAPER	SIZE	BAHT
V-231	NT30-ER16-76L	M12 X 1.75	
V-231A	NT30-ER20-76L	M12 X 1.75	
V-101	NT30-ER32-55L	M12 X 1.75	
V-102	NT30-ER40-70L	M12 X 1.75	
V-232	NT40-ER16-76L	M16 X 2.0	
V-233	NT40-ER16-100L	M16 X 2.0	
V-234	NT40-ER20-76L	M16 X 2.0	
V-235	NT40-ER20-100L	M16 X 2.0	
V-103	NT40-ER32-50L	M16 X 2.0	
V-104	NT40-ER40-60L	M16 X 2.0	
V-301	R8-ER16-38L	7/16" X 20	
V-302	R8-ER32-40L	7/16" X 20	
V-303	R8-ER40-70L	7/16" X 20	

ER Spring Collet Chuck System



RUNOUT: 0.005m/m R.P.M: 8000

CODE	TAPER	BAHT
V-710	BT30-ER11-60L	
V-711	BT30-ER11-100L	
V-770	BT30-ER16-60L	
V-713	BT30-ER16-100L	
V-715	BT30-ER20-60L	
V-716	BT30-ER20-100L	
V-718	BT30-ER25-60L	
V-718A	BT30-ER25-100L	
V-700	BT30-ER32-60L	
V-700A	BT30-ER32-100L	
V-719	BT30-ER40-70L	
V-720	BT40-ER11-70L	
V-721	BT40-ER11-100L	
V-772	BT40-ER16-70L	
V-773	BT40-ER16-100L	
* V-774A	BT40-ER16-150L	
V-774	BT40-ER20-70L	
V-775	BT40-ER20-100L	
* V-775A	BT40-ER20-135L	
* V-775B	BT40-ER20-150L	

ER Spring Collet Chuck System



RUNOUT: 0.005m/m R.P.M: 8000

CODE	TAPER	BAHT
V-725	BT40-ER25-70L	
V-726	BT40-ER25-100L	
* V-775C	BT40-ER25-150L	
V-703A	BT40-ER32-70L	
V-703B	BT40-ER32-100L	
* V-733	BT40-ER32-150L	
V-704	BT40-ER40-80L	
V-704B	BT40-ER40-100L	
* V-712	BT30-ER11M-100L	
* V-714	BT30-ER16M-100L	
* V-717	BT30-ER20M-100L	
* V-722A	BT40-ER11M-100L	
* V-723A	BT40-ER16M-100L	
* V-723B	BT40-ER16M-150L	
* V-724A	BT40-ER20M-100L	
* V-724B	BT40-ER20M-150L	
V-776	BT50-ER16-100L	
V-777	BT50-ER16-150L	
V-778	BT50-ER20-100L	
V-779	BT50-ER20-150L	
V-736	BT50-ER25-100L	
V-737A	BT50-ER25-150L	
V-705	BT50-ER32-100L	
V-738A	BT50-ER32-150L	
V-706	BT50-ER40-100L	
V-706B	BT50-ER40-150L	

ER Spring Collet Chuck System



CODE	TAPER	BAHT
V-530	ER11-16 X 50L	
V-531	ER11-16 X 100L	
* V-532	ER11-16 X 150L	
V-501	ER16-20 X 50L	
V-502	ER16-20 X 100L	
V-503	ER16-20 X 150L	
* V-504A	ER16-25 X 50L	
V-504	ER16-25 X 100L	
V-505	ER16-25 X 150L	
V-506	ER20-20 X 50L	
V-507	ER20-20 X 100L	
V-508	ER20-20 X 150L	
* V-509B	ER20-25 X 50L	
V-509A	ER20-25 X 100L	
V-509	ER20-25 X 150L	
V-511	ER25-20 X 100L	
V-512	ER25-20 X 150L	
V-513	ER25-25 X 100L	
V-514	ER25-25 X 150L	
V-551	ER11M-16 X 50L	
V-552	ER11M-16 X 100L	
V-552A	ER11M-16 X 150L	
V-561	ER16M-16 X 100L	
V-553	ER16M-20 X 50L	
V-554	ER16M-20 X 100L	
V-555	ER16M-20 X 150L	
* V-562	ER16M-25 X 100L	
* V-563	ER16M-25 X 150L	
V-556	ER20M-20 X 50L	
V-557	ER20M-20 X 100L	
V-558	ER20M-20 X 150L	
* V-559	ER20M-25 X 100L	
* V-560	ER20M-25 X 150L	



VERTEX

Collet Chuck Kit With Straight Shank



CODE	COLLET TYPE	SET RANGE	BAHT
V-603	ER16-20 X 100L(10PCS)	1.0-10 mm	
V-605	ER16-20 X 150L(10PCS)		
V-613	ER20-20 X 100L(12PCS)	2.0-13 mm	
V-615	ER20-20 X 150L(12PCS)		
V-622	ER25-20 X 100L(15PCS)	2.0-16 mm	
V-625	ER25-20 X 150L(15PCS)		
V-692A	ER11M-16 X 100L(7PCS)	1.0-7.0 mm	
V-692B	ER11M-16 X 100L(13PCS)		
V-694A	ER16M-20 X 100L(10PCS)	1.0-10 mm	
V-695A	ER16M-20 X 150L(10PCS)		
V-697A	ER20M-20 X 100L(12PCS)	2.0-1.3 mm	
V-698A	ER20M-20 X 150L(12PCS)		

Collet Chuck Kit With ISO Taper Shank



CODE	COLLET TYPE	SET RANGE	BAHT
V-201	NT30-ER32(18PCS)	3.0-20mm	
V-202	NT30-ER32(11PCS)	4.0-20mm	
V-203	NT30-ER32(6PCS)	6.0-20mm	
V-204	NT30-ER40(23PCS)	4.0-26mm	
V-205	NT30-ER40(15PCS)	4.0-26mm	
V-206	NT30-ER40(7PCS)	6.0-26mm	
V-207	NT40-ER32(18PCS)	3.0-20mm	
V-208	NT40-ER32(11PCS)	4.0-20mm	
V-209	NT40-ER32(6PCS)	6.0-20mm	
V-210	NT40-ER40(23PCS)	4.0-26mm	
V-211	NT40-ER40(15PCS)	4.0-26mm	
V-212	NT40-ER40(7PCS)	6.0-25mm	
V-313	R8-ER32(18PCS)	3.0-20mm	
V-314	R8-ER32(11PCS)	4.0-20mm	
V-315	R8-ER32(6PCS)	6.0-20mm	
V-316	R8-ER40(23PCS)	4.0-26mm	
V-317	R8-ER40(15PCS)	4.0-26mm	
V-318	R8-ER40(7PCS)	6.0-26mm	

ER32 6PCS (6,8,10,12,16,20mm) / 11PCS (4,5,6,8,10,12,13,15,16,18,20mm)
 18PCS (3-20mm 間隔 1.0)
 ER40 7PCS (6,8,10,12,16,20,25mm)
 15PCS (4,5,6,8,10,12,13,15,16,18,20,21,22,25,26mm) / 23PCS (4-26mm 間隔 1.0)

Clamping Nuts



CODE	COLLET TYPE	BAHT
V-800	ER11UM	
V-801	ER16UM	
V-802	ER20UM	
V-803	ER25UM	
V-804	ER32UM	
V-805	ER40UM	
V-806	ER50UM	
V-810C	ER11M	
V-808	ER16M	
V-809	ER20M	

彫刻機嚙咀



CODE	SIZE	BAHT
SYI020+規格 大身	3, 4, 5, 6, 8, 10 1/8, 3/16, 1/4, 5/16, 3/8	
SYI017+規格	3, 4, 5, 6, 8 1/8, 3/16, 1/4, 5/16	
大身: D20.5 X 30L	細身: D17.5 X 24L	

ER Spring Collet Chuck System



CODE	TYPE	BAHT
* V-820	ER11UM	
V-815	ER16UM	
V-816	ER20UM	
V-811	ER25UM	
V-812	ER32UM	
V-813	ER40UM	
V-814	ER50UM	
V-822	ER11M	
V-823	ER16M	
V-824	ER20M	

R8 Collet System



CODE	RANGE SIZE	BAHT
R8+ 規格	3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4	

U2 Collet System



CODE	RANGE SIZE	BAHT
U2+規格	3, 4, 5, 6, 8, 10, 12, 14, 16	
	18, 20, 25	
	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8	

Pull Studs



CODE	TAPER NO.	BAHT
BT-501	BT-30-45°	
BT-502	BT-30-60°	
BT-503	BT-40-45°	
BT-504	BT-40-60°	
BT-505	BT-50-45°	
BT-506	BT-50-60°	

Sidelock End Mill Holder



CODE	SIZE	BAHT
BT-442	BT-40-SLA6-75 (Ø6)	
BT-443	BT-40-SLA8-75 (Ø8)	
BT-444	BT-40-SLA10-75 (Ø10)	
BT-445	BT-40-SLA12-75 (Ø12)	
BT-447	BT-40-SLA16-75 (Ø16)	
BT-449	BT-40-SLA20-90 (Ø20)	
BT-450	BT-40-SLA25-90 (Ø25)	
BT-451	BT-40-SLA32-90 (Ø32)	
BT-454	BT-50-SLA6-90 (Ø6)	
BT-456	BT-50-SLA8-90 (Ø8)	
BT-458	BT-50-SLA10-90 (Ø10)	
BT-460	BT-50-SLA12-90 (Ø12)	
BT-463	BT-50-SLA16-90 (Ø16)	
BT-466	BT-50-SLA20-105 (Ø20)	
BT-470	BT-50-SLA25-105 (Ø25)	
BT-474	BT-50-SLA32-105 (Ø32)	



Multi-Lock Milling Chuck



CODE	CHUCK	DRAW BAR	BAHT
VB-431	NT40-C32-95L	5/8-11	
VB-432	NT40-C32-95L	M16 X 2.0	
* VB-433	NT50-C32-100L	1"-8	
* VB-434	NT50-C32-100L	M24 X 3.0	
VB-435A	BT40-C32-105L	M16 X 2.0	
* VB-435B	BT40-C32-150L	M16 X 2.0	
VB-436	BT50-C32-110L	M24 X 3.0	
* VB-437	BT50-C32-150L	M24 X 3.0	
* VB-438	NT50-C42-110L	1" X 8	
* VB-439	NT50-C42-110L	M24 X 3.0	
* VB-440	BT50-C42-115L	M24 X 3.0	
* VB-441	BT50-C42-150L	M24 X 3.0	
VB-444A	BT30-C20-95	M12 X 1.75	
* VB-448A	NT30-C20-80	M12 X 1.75	
* VB-448I	NT30-C20-80	1/2 X 12	

Multi-Lock Milling Chuck "ATOM"

CODE	CHUCK	DRAW BAR	BAHT
KB-104	NT40-C32-78L	5/8 X 11	
KB-105	NT50-C32-85L	M24 X 3.0	
KB-511	BT40-C32-105L	M16 X 2.0	
KB-513	BT40-C32-135L	M16 X 2.0	
KB-521	BT50-C32-105L	M24 X 3.0	
KB-523	BT50-C32-135L	M24 X 3.0	

Multi-Lock Milling Chuck



CODE	CHUCK	DRAW BAR	BAHT
VB-344A	BT40-C32-105L(7PCS)	M16 X 2.0	
VB-354A	BT50-C32-110L(7PCS)	M24 X 3.0	
VB-444	NT40-C32-95L(7PCS)	M16 X 2.0	
VB-444I	NT40-C32-95L(7PCS)	5/8 X 11	

ER Spring Collet Chuck System



C20 Straight Collet

CODE	SIZE	BAHT	CODE	SIZE	BAHT
C20-040	4mm		C20-120	12mm	
C20-060	6mm		C20-140	14mm	
C20-080	8mm		C20-160	16mm	
C20-100	10mm				

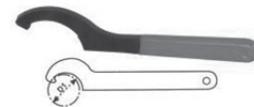
C32 Straight Collet

CODE	SIZE	BAHT	CODE	SIZE	BAHT
C32-040	4mm		C32-I012	3/16	
C32-060	6mm		C32-I016	1/4	
C32-080	8mm		C32-I020	5/16	
C32-100	10mm		C32-I024	3/8	
C32-120	12mm		C32-I032	1/2	
C32-140	14mm		C32-I040	5/8	
C32-160	16mm		C32-I048	3/4	
C32-180	18mm		C32-I100	1"	
C32-200	20mm				
C32-250	25mm				

C32 Straight Collet

CODE	SIZE	BAHT	CODE	SIZE	BAHT
C42-060	6mm		C42-I016	1/4	
C42-080	8mm		C42-I020	5/16	
C42-100	10mm		C42-I024	3/8	
C42-120	12mm		C42-I032	1/2	
C42-140	14mm		C42-I040	5/8	
C42-160	16mm		C42-I048	3/4	
C42-200	20mm		C42-I100	1"	
C42-250	25mm		C42-I116	1-1/4"	
C42-320	32mm				

C42 Wrenches



CODE	COLLETS	BAHT
C20W	C20	
C32W	C32	
C42W	C42	



VERTEX

Milling Chuck OZ Series



CODE	CHUCK SHANK ONLY	METRIC	BAHT
VB-R8	R8-OZ25	7/16-20	
VB-NT30	NT30-OZ25	M12 X 1.75	
VB-NT30I	NT30-OZ25	1/2-12	
VB-NT40	NT40-OZ25	M16 X 2.0	
VB-NT40I	NT40-OZ25	5/8-11	
* VB-NT50	NT50-OZ25	M24 X 3.0	
* VB-NT50I	NT50-OZ25	1"-8	
VB-BT40	BT40-OZ25	M16 X 2.0	
* VB-BT50	BT50-OZ25	M24 X 3.0	
* VB-131	NT40-OZ32	M16 X 3.0	
* VB-132	NT50-OZ32	M24 X 3.0	
* VB-226	BT40-OZ32	M16 X 2.0	
* VB-227	BT50-OZ32	M24 X 3.0	

Milling Collet Chuck Kit OZ25



CODE	TAPER	METRIC	BAHT
VB-101	NT30-OZ25(7PCS)	M12 X 1.75	
VB-101I	NT30-OZ25(7PCS)	1/2-12	
VB-103	NT40-OZ25(7PCS)	M16 X 2.0	
VB-103I	NT40-OZ25(7PCS)	5/8-11	
VB-113	R8-OZ25(7PCS)	7/16-20	

配公制啞咀: ø6,8,10,12,16,20

Collets For Milling Chuck OZ Series



OZ-25

CODE	SIZE	BAHT	CODE	SIZE	BAHT
OZ25-030	3mm		OZ25-180	18mm	
OZ25-040	4mm		OZ25-190	19mm	
OZ25-050	5mm		OZ25-200	20mm	
OZ25-060	6mm		OZ25-250	25mm	
OZ25-070	7mm		OZ25-I008	1/8	
OZ25-080	8mm		OZ25-I012	3/16	
OZ25-090	9mm		OZ25-I016	1/4	
OZ25-100	10mm		OZ25-I020	5/16	
OZ25-110	11mm		OZ25-I024	3/8	
OZ25-120	12mm		OZ25-I028	7/16	
OZ25-130	13mm		OZ25-I032	1/2	
OZ25-140	14mm		OZ25-I040	5/8	
OZ25-150	15mm		OZ25-I048	3/4	
OZ25-160	16mm		OZ25-I058	7/8	
OZ25-170	17mm		OZ25-I100	1"	

OZ-25

CODE	SIZE	BAHT	CODE	SIZE	BAHT
OZ32-060	6mm		OZ32-I016	1/4	
OZ32-080	8mm		OZ32-I020	5/16	
OZ32-100	10mm		OZ32-I024	3/8	
OZ32-120	12mm		OZ32-I032	1/2	
OZ32-140	14mm		OZ32-I040	5/8	
OZ32-160	16mm		OZ32-I048	3/4	
OZ32-200	20mm		OZ32-I056	7/8	
OZ32-250	25mm		OZ32-I100	1"	
OZ32-320	32mm				

Nuts & Wrench

Ball Bearing, Nuts For Collets DIN6388, Type A



CODE	COLLET	BAHT
OZ-25N	OZ-25	
OZ-32N	OZ-32	

Wrench For Collets DIN6388 Type A



CODE	COLLET	BAHT
OZ-25N	OZ-25	
OZ-32N	OZ-32	



R8 With Morse Taper Sleeve
 VQ-122 R8 X MT2
 VQ-123 R8 X MT3
 VQ-124 R8 X MT4



Morse Taper Sleeve
 VQ-101 MT2 X MT3
 VQ-102 MT2 X MT4
 VQ-105 MT3 X MT4
 VQ-106 MT3 X MT5
 VQ-108 MT4 X MT5



Morse Taper Adapter
 MTA Type (Standard Type)
 BT-209 BT40 X MT1
 BT-212 BT40 X MT2
 BT-215 BT40 X MT3
 BT-218 BT40 X MT4
 BT-220 BT50 X MT1
 BT-223 BT50 X MT2
 BT-226 BT50 X MT3
 BT-229 BT50 X MT4



Morse Taper Adapter
 VI-104 NT40 X MT1
 VI-105 NT40 X MT2
 VI-106 NT40 X MT3
 VI-107 NT40 X MT4



Drill Chuck Arbor
 VJ-128 MT2 X JT2
 VJ-129 MT2 X JT6
 VJ-130 MT3 X JT2
 VJ-136 MT3 X JT3
 VJ-131 MT3 X JT6
 VJ-137 MT4 X JT2
 VJ-139 MT4 X JT3
 VJ-132 MT4 X JT6



Drill Chuck Arbor
 VJ-121 R8 X JT1
 VJ-122 R8 X JT2
 VJ-123 R8 X JT6
 VJ-124 R8 X JT3
 VJ-141 Ø20 X JT6
 VJ-143 Ø32 X JT6



Jacobs Taper Drill Chuck Arbor
 BT-315 BT40 X JT6
 BT-325 BT50 X JT6
 VJ-106 NT40 X JT6
 VJ-103 NT30 X JT6



Keyless Drill Chucks
 V-12202-1 (0-3/8)
 V-12203-2 (0-1/2)
 V-12205-1 (1/8-5/8)



Integrated Type Keyless Drill Chucks
 INT13-R8 (1/2) INT16-MT4 (5/8)
 INT16-R8 (5/8) INT8-JC20 (5/16)
 INT13-MT3 (1/2) INT13-JC20 (1/2)
 INT16-MT3 (5/8) INT16-JC20 (5/8)
 INT13-MT4 (1/2) INT13-JC32 (1/2)
 INT16-JC32 (5/8)



Integrated Type Keyless Drill Chucks
 INT8-BT30 INT13-BT50 (1/2)
 INT13-BT30 (1/2) INT16-BT50 (5/8)
 INT8-BT40 (5/16) INT13-NT30 (1/2)
 INT13-BT40 (1/2) INT13-NT40 (1/2)
 INT16-BT40 (5/8) INT16-NT40 (5/8)



Key Type Drill Chucks
 V-10003 1/4 (JT1)
 V-10010 3/8 (JT2)
 V-10039 1/2 (JT6)
 V-10061 5/8 (JT6)
 V-10073 3/4 (JT3)



Screw Jack
 VSJ- 70
 (adjustable capacity 70-95mm)
 VSJ-150
 (adjustable capacity 100-150mm)
 VSJ-250
 (adjustable capacity 140-230mm)





Tap Chuck Series

- * VTA13-1 (JT6 Ø2-13 mm)
- * VTA13-3 (MT2 Ø2-13mm)
- * VTA16-1 (JT3 Ø3-16mm)
- * VTA16-3 (MT2 Ø3-16mm)
- * VTA16-4 (MT3 Ø3-16mm)



Tap Chuck

- * VTA-35000 (1/2-JT6)



Quick Change Tapping Chucks (Chuck Shank)

- * BT30-WF12 M3-M12
- * BT30-WF20 M8-M20
- * BT40-WF12 M3-M12
- * BT40-WF20 M8-M20
- * BT50-WF12 M3-M12
- * BT50-WF20 M8-M20



Expansible Tapping Holder (Single Holder & Holder BT Type)

- VET-102 (ER16-Ø20x80L)
- VET-202 (ER20-Ø20x80L)
- VET-252 (ER20-Ø25x80L)
- VET-271(ER20-BT40x110L)
- VET-273(ER32-BT40x110L)
- VET-272 (ER20-BT50x95L)
- VET-274 (ER32-BT50x110L)



Reversible Tapping Attachments

- VTA7-JT6 (M2-M7)
- VTA12-JT6(M4-M12)
- * VTA20-M20(M8-M20)
- VTA7 啞咀 FC-10 (Ø2.5-Ø4.5)
- FC-11 (Ø4.5-Ø6.5)
- VTA12 啞咀 FC-20(Ø4.5-Ø7.5)
- FC-21(Ø7.5-Ø10)



Quick Change Tapping Chucks (Sets)

- * VQT-312 BT30 (M3-M12)
- * VQT-320 BT30 (M8-M20)
- * VQT-412 BT40 (M3-M12)
- * VQT-420 BT40 (M8-M20)
- * VQT-512 BT50 (M3-M12)
- * VQT-520 BT50 (M8-M20)



Expansible Tapping Holder (Sets Type)

- * VET-106 (ER16-Ø20x 80L/10pcs)
- * VET-254 (ER20-Ø20x80L/12pcs)



Expansible Tapping Holder (Holder-Mini Type)

- VET-260 (ER16M-Ø20x70L)
- VET-261 (ER16M-Ø25x70L)



Reversible Tapping Attachment For Drilling & Milling Machine

- K1-1/2 (3-8mm)
- K1-MT2 (3-8mm)
- K2-1/2 (5-10mm)
- K2-MT2 (5-10mm)
- K3-MT3 (6-14mm)
- K4-MT3 (12-25mm)

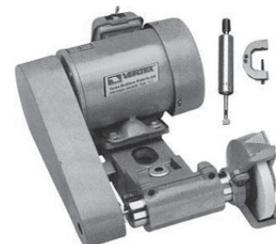


Drill Taper

- VDT33-MT3
- VDT33-MT4
- VDT33-MT5
- VDT33 啞咀 :
- 8mm(5/16")-33mm(1-1/4")



Grinder On Lathe VGR-125 (5")





Lathe Center

- VLC-112 (MT2)
- VLC-113 (MT3)
- VLC-114 (MT4)
- VLC-115 (MT5)



Live Lathe Center

- * VLC-212 (MT2) * VLC-215 (MT5)
- VLC-213 (MT3) * VLC-213B (MT3)
- VLC-214 (MT4) * VLC-214B (MT4)



High-Load NC Live Center

- * VLC-MT3A * VLC-MT3B
- * VLC-MT4A * VLC-MT4B
- * VLC-MT5A * VLC-MT5B
- * VLC-MT6A



High-Speed NC Live Center

- * VCF-MT3A * VCF-MT3B
- * VCF-MT4A * VCF-MT4B
- * VCF-MT5A * VCF-MT5B



Light Duty Live Center

- VPC-MT2
- VPC-MT3
- VPC-MT4
- VPC-MT5



Inter-Changeable Point Live Center

- *VLC-312 (MT2)
- VLC-313 (MT3)
- VLC-314 (MT4)



ACCURACY: 0.008mm

High-Speed NC Inter-Changeable Point Live Center

- * VCS-MT3
- * VCS-MT4



Bull Nose Center

- * VLC-433 MT3 X 3"
- * VLC-434 MT3 X 4"
- * VLC-443 MT4 X 3"
- * VLC-444 MT4 X 4"
- * VLC-445 MT4 X 5"
- * VLC-446 MT4 X 6"
- * VLC-448 MT4 X 8"
- * VLC-455 MT5 X 5"
- * VLC-456 MT5 X 6"
- * VLC-458 MT5 X 8"



3 Jaw Self Centering Chuck

- * VSC-3 (3")
- * VSC-4 (4")
- * VSC-5 (5")
- * VSC-6 (6")
- * VSC-8 (8")
- * VSC-10 (10")
- * VSC-12 (12")



經濟型

3 Jaw Powerful Self Centering Chuck

- * VSK-6 (6")
- * VSK-7 (7")
- * VSK-8 (8")
- * VSK-9 (9")
- * VSK-10 (10")
- * VSK-12 (12")



Soft Jaw For SK-Type Chuck (3PCS/SET)

- * VSJ-6 (6")
- * VSJ-7 (7")
- * VSJ-8 (8")
- * VSJ-9 (9")
- * VSJ-10 (10")
- * VSJ-12 (12")



Soft Jaw Hydraulic Power Chuck (3PCS/SET)

- * VHC-05 (5")
- * VHC-06 (6")
- * VHC-08 (8")
- * VHC-10 (10")
- * VHC-12 (12")





**Universal Cutter Grinder
 U2 (220V)**



**Universal Cutter Grinder
 (optional Accessory)**
 U2-E
 U2-T
 U2-L



**Ejector Pin Cutting-off Unit
 VEC-100**



**Rods Precision Cutting-off And
 End Surface Grinding Unit
 VEC-300G (220V)**
 * VEC-500G (220V)
 * VEC-600G (220V)



**Chamfering & Deburring Unit
 VCF-500S**



**Chamfering & Deburring Unit
 VCF-500**
 Accessory : Side Mill Cutter Insert
 SPUN 422



**Chamfering & Deburring Unit
 VCF-500F**
 Accessory : Face Mill Cutter Insert
 SEKN 1203



**Chamfering & Deburring Unit
 VCF-500W**
 Accessory : Grinding Wheel
 100Øx50x17Ø



**Chamfering & Deburring Unit
 VCF-600**
 Insert SPMW 321
 ZSPMW 090308



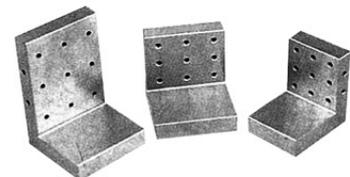
**Precision Angle Blocks
 AB-130 (12pcs angle blocks)**



**Universal Angle Block Set
 AB-163 (9pcs angle blocks)**



**Precision Steel Angle Plates
 ECE-L34 (73Wx73Lx100H)
 ECE-L44 (100Wx100Lx100H)
 ECE-L46 (100Wx100Lx150H)**



L-46 L-44 L-34



Tool Makers Vise

VB15 (1-1/2") VB35 (3-1/2")
 VB20 (2") VB40 (4")
 VB25 (2-1/2") VB50 (5")
 VB30 (3") VB60 (6")



Tool Makers Vise

VD20 (2") VD35 (3-1/2")
 VD25 (2-1/2") VD40 (4")
 VD30 (3") VD50 (5")



Tool Makers Vise

VC20 (2")
 VC25 (2-1/2")
 VC30 (3")



Tool Makers Vise

VE20 (2")
 VE25 (2-1/2")
 VE30 (3")



Tool Makers Vise (Stainless)

VST-25



JAW OPENING : 80mm
 LENGTH : 160mm
 WIDTH : 70mm

Tool Makers Vise (Stainless)

VBST-30



JAW OPENING : 100mm
 LENGTH : 190mm
 WIDTH : 73mm

Sine Vise

SV20 (2") SV40 (4")
 SV25 (2-1/2") SV50 (5")
 SV30 (3")



Sine Vise

V20 (2") V40 (4")
 V25 (2-1/2") V50 (5")
 V30 (3")



Precision Universal Angle Vise

VUA-3
 * VUA-4



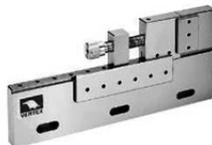
EDM Tool Maker Vise (Stainless)

WST-50 (28Wx120Lx85H)
 WST-100 (22Wx235Lx135H)
 WST-150 (22Wx320Lx145H)

WST-50 (Max.Opening : 50mm)



WST-100
 (Max.Opening : 100mm)



WST-150
 (Max.Opening : 150mm)

Electrode Holders

EH50



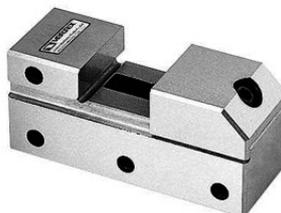
Electrode Vise

VB10 (1")



Tool Makers Vise (Stainless)

VST-10 (1")
 *JAW HEIGHT=VL-10



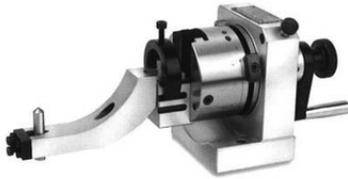
Electrode Holder

VRA-100(Ø20)





Punch Former 2 way
GIN-PFA (PB)



Punch Former 1way, Through Hold
GIN-PFB (PS)



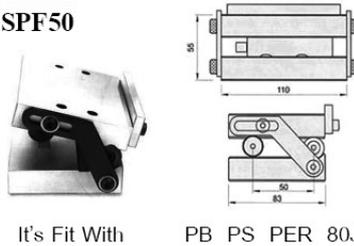
ER Collet Dividing Punch Former
GIN-PFD (PER)
(put ER32, total 7pcs.)



3-Jaws Punch Former
GIN-PFC (VPS-80J)



Sine Plate For All Type Punch Former
V-SPF50



Radius And Angle Dresser
* V-TDB (RDA)



Radius And Angle Dresser
* V-TDG (RDC)



Radius And Angle Dresser
* V-TDE (RDB)



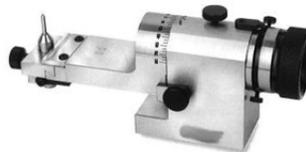
Tangimatic Dresser
*V-TDA (RD40)



Tangimatic Dresser Handy Type
* V-TDH(RD30)



Optical Radius Angle Dresser
GIN-KT50



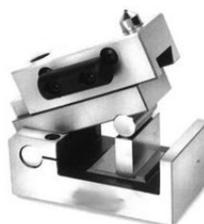
Precision Duplex Dresser
* V-DF60



Universal Wheel Dresser
* V-WD165



Matco Sine Dresser
V-AP50



Diamond Wheel Dresser
V-DT100





Motor Type CBN Flat Wheel Dresser
V-DTM100



Angle Plate
 AP-1 (47 X 46 X 102mm)
 AP-2 (47 X 30 X 102mm)
 AP-3 (32 X 25 X 75mm)



Sine Bar With Magnetic & Sine Bar
 V-S100
 V-MS50
 V-MS100



Level Balancing Stand
LBS-100



LBS-100

Grinding Wheel Flang
 FTA-350
 FKT-250



Punch Grinder
V-PGAS
 (0.5-10mm)



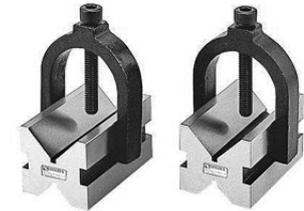
Punch Grinder
V-PGA (1.5-3.0mm)



Punch Grinder
V-PGAM (1.5-25mm)



V-Block With Clamps
VBC-243
 (70W X 45H X 42L)



V-Block With Clamps
 VBC-195 (63W X 46H X 63L)
 VBC-196 (100W X 60H X 50L)
 VBC-197 (150W X 100H X 65L)



V-Block With Clamps
VBC-003 (60W X 50H X 70L)



V-Block With Clamps
VBC-006
 (64W X 45H X 70L)



V-Block With Clamps
VBC-009
 (102W X 76H X 76L)



Angular Permanent Magnetic Plate
 VG-407 VG-614 VG-818
 VG-510 VG-618 VG-820
 VG-612 VG-816 VG-1020



Fine Pole Magnetic Plate
 * VRTW-612 * VRTW-618
 * VRTW-614 * VRTW-816





Rotary Permanent Magnetic Plate

VLU-510B
 VLU-612B



Double Way Sine Plate With Permanent & Fine Pole Magnetic Chuck

V-SP47MS (V-47MS)
 V-SP66MS (V-66MS)
 V-SP47SF (V-47MSF)
 V-SP66SF (V-66MSF)



Magnetic Sine Plate

V-SP47M (4 X 7")
 V-SP66M (6 X 6")
 V-SP612M (6 X 12")



Magnetic Sine Plate With Fine Pole

V-SP47S (4 X 7")
 V-SP66S (6 X 6")



Double Way Sine Plate With Permanent Magnetic Chuck

V-MSP47S (4 X 7")
 V-MSP66S (6 X 6")
 V-MSP612S (6 X 12")



Adjustable Sine Plate With Fine Pole Magnetic Chuck

V-MSP66SA (6 X 6")



Magnetic Transisting Block Set * VCP-6 (4 pairs of blocks)



Magnetic Transisting Block

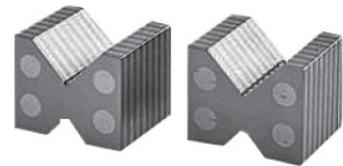
VCP-1A
 VCP-1B



VCP-1A

Magnetic Transisting Block

VCP-2 (48 X 60 X 50mm)
 VCP-3 (48 X 60 X 110mm)



VCP-2

Magnetic V Block ECE-612



磁力160kgf, 適用於銑床, 鑽床等之輕切削加工或鑽孔加工、小型鋼板或圓棒鋼材均適用、可單台或多台合併使用

磁力工作台 (適用於CNC綜合切削加工機及銑床)

ECB-210CB

夾磁吸力: 2100KGF
 規格: 134(高) X 133(寬) X 234(長)

ECB-120CB

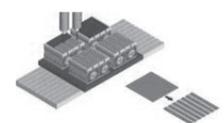
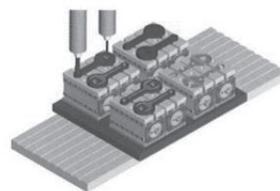
夾磁吸力: 1200KGF
 規格: 108(高) X 108(寬) X 188(長)

ECB-075CB

夾磁吸力: 750KGF
 規格: 78(高) X 76(寬) X 174(長)

ECB-050CB

夾磁吸力: 500KGF
 規格: 78(高) X 76(寬) X 126(長)





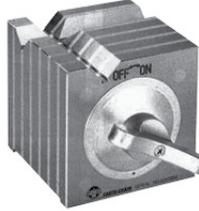
Magnetic V Block

ECE-212 (3-3/4 X 2-3/4 X 4")
 ECE-208 (2-7/8 X 2-1/8 X 2-3/4)
 VCP-27 (2-7/8 X 2-3/8 X 5")



Magnetic Square Block

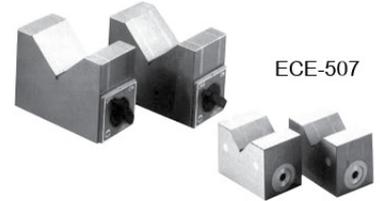
ECE-100(VCP-31)(100 X 100 X 100mm)
 ECE-150(VCP-32)(150 X 150 X 150mm)



Magnetic V Block

ECE-507 (40X70X50)
 ECE-510 (50X100X80)

MODEL : ECE-510



Magnetic Lifter

ELH-10S
 ELH-6S

MODEL : ELH-S

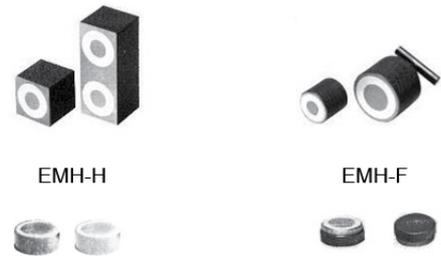


磁力吸塊

EMH-26S (10kgf) 26x26x25
 EMH-60S (20kgf) 60x26x25
 EMH-30R (15kgf) Ø30x25
 EMH-40R (30kgf) Ø40x30
 EMH-50R (50kgf) Ø50x40
 EMH-10H (3kgf) Ø10x8
 EMH-18H (5kgf) Ø18x8
 EMH-25H (9kgf) Ø25x10
 EMH-10F (3kgf) Ø10x8
 EMH-18F (5kgf) Ø18x8
 EMH-25F (9kgf) Ø25x10

MODEL : EMH-S

EMH-R



Magnetic Tools

ECE-300BS (臂長 260mm)
 ECE-300B (臂長340mm)
 ECE-300A (大磁座、臂長340mm)
 ECE-300AL (大磁座、臂長425mm)
 ECE-300ALL (加大磁座、臂長600mm)

ECE-300系列
 (精密型):

大磁座:
 磁力 100KG
 加大磁座:
 磁力 160K



Magnetic Tools

ECE-330BS (臂長 260mm)
 ECE-330B (臂長340mm)
 ECE-330A (大磁座、臂長340mm)
 ECE-330AL (大磁座、臂長425mm)

ECE-330系列
 (精密型):



Magnetic Tools

ECE-310 (臂長340mm)
 ECE-320 (臂長300mm)
 ECE-340 (臂長340mm)

經濟型:

ECE-340

ECE-310

ECE-320



Universal Arm Type

H-70
 ECE-400
 ECE-500
 ECE-550
 ECE-600



ECE-400 ECE-500 ECE-550 ECE-600



Magnetic Tools For Dial Gauge, Indicator

ECE-01A 主柱長 240mm , 支柱長 217mm
 ECE-02 主柱長 176mm 支柱長 172mm
 ECE-02A 主柱長 176mm 支柱長 172mm
 ECE-02B 主柱長 176mm 支柱長 172mm



ECE-01A



ECE-02



ECE02A



ECE-02B



Magnetic Tools

ECE-302B

ECE-302BV



302B



帶微調
302BV

Magnetic Tools

ECE-302BA



Magnetic Tools

ECE-314



Mist Coolant With Magnetic Base

ECE-310CS



ECE-323B



ECE-323L



ECE-323



Permanent Magnetic Lifter (On/Off Type)

- ELM-100 (0.1 吨)
- ELM-300 (0.3 吨)
- ELM-600 (0.6 吨)
- ELM-1000 (1 吨)
- ELM-2000 (2 吨)
- * ELM-3000 (3 吨)

EML-300



Magnetic Lifter Magnetic Tools (Wheel Dresser Clamp)

- EL-100 (1000kg)
- EL-200 (2000kg)



Magnetic Tools (Wheel Dresser Clamp)

ECE-312

- (Clamp Hold Ø12mm)
- Without Diamond
- Clamp Hold Ø10mm)
- Without Diamond



Adjustable Magnetic Nozzle Kit



CL-01
CL-01S



CL-02
CL-02S



CL-03
CL-03S



S-1



L-2



ECE-303N2



ECE-303N3



Magnetic Tools



ECE-306H1



ECE-306H2



ECE-306H3

Adjustable Coolant Hoses & Valves

- VHK-1/4-3SR (帶開關圓膠咀 ϕ 1/2)
- VHK-1/4-4SF (扁膠咀, 咀寬16mm)
- VHK-1/4-4SFL (帶開關扁膠咀, 咀寬16mm)
- VHK-3/8-5SR (圓膠咀 ϕ 5/8)
- VHK-3/8-5SF (扁膠咀 ϕ 5/8)



Magnetic Tools

ECE-CSP310

<特點>

1. 萬向支臂, 可固定於任何角度, 使用方便迅速。
2. 附有一文件夾, 可夾持工作圖

<適用範圍>

適用於金屬加工之操作, 如銑、鑽床、
車床...等金屬加工機



Magnetic Working Beam (220V)

ECE-304



Mini Type Demagnetizer

EDH-123(VDM-9)

(83 X 123 X 83mm)

AC 220V/0.9A

Height : 60mm



Demagnetizer

EDB-180(VDM-8)

(127 X 180 X 90mm)

AC 200V/2A

Height : 80mm



Demagnetizer

EDS-200(VDM-68)

(150 X 200 X 110mm)

AC 220V/3.3A

Dimension : L150x W200 x H100 mm



Demagnetizer

EDB-280

(200 X 280 X 130mm)

AC 220V/5A

Height : 160mm



Demagnetizer

* HD-420

(335 X 585 X 135mm)

AC 380V/3相/8A

脫磁有效範圍 400mm

脫磁有效厚度 70mm



Demagnetizer

* HD-500

(335 X 585 X 285mm)

AC 380V/3相/10A

脫磁有效範圍 400mm

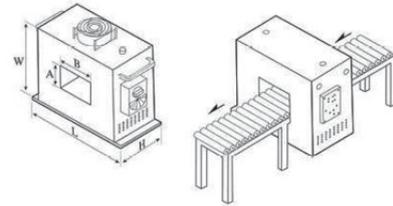
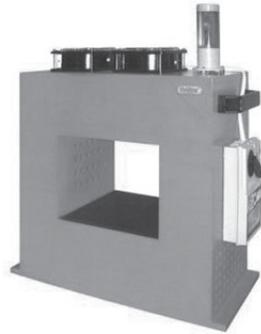
脫磁有效厚度 110mm





Tunnel Type Demagnetizer And Magnetizer

- * HD-1015
- * HD-1525
- * HD-2545



SPECIFICATION

Model	Input Voltage	Current	Duty Cycle	Dimension			Gate		Net Weight
				D	E	B	C	D	
HD-1015	AC 380 (single phase)	5A		370	370	200	100	150	38
HD-1525		12A		470	370	200	150	250	40
HD-2545	AC 380V	18A		700	500	200	250	450	45

Demagnetizer HDO-40 (VDM-40)

AC 220V/0.8A
 Hole Capacity :
 Φ 40mm
 Demagnetize
 1 minute
 Waiting 4 minute



Handy Type For Bigger Or Heavy Workpiece HDB-210 (345 X 35 X 25mm)

AC 220V/1.2A
 Demagnetize
 1 minute
 Waiting 4 minute



Dustproof Halogen Lamp Beams (220V) VHL-300S (SHORT ARM) VHL-300M (MEDIUM ARM) VHL-300L (LONG ARM)



Dustproof Halogen Lamp Beams (24V) VHL-300V-S (SHORT ARM) VHL-300V-M (MEDIUM ARM) VHL-300V-L (LONG ARM)



Quartz Halogen Lamp Beams(220V) VHL-20FT



Magnifying Fluorescent Work Light Beams(220V) VHL-30LEB VHL-30MEB VHL-30TEB



帶網火花機過濾器 SH-01W (150x72x450) SH-10(260x29x340) SH-11(150x33x340) SH-600L (150x26x600)





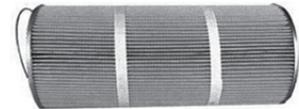
Granite Surface Stand
 VH-41 (6 X 6", 150x150mm)
 VH-42 (6 X 9", 150x220mm)
 VH-43 (9 X 12", 230x300mm)
 VH-43L (9 X 12", 300mm)



Black Granite Surface Plates
 VSG-05 300x300x70
 VSG-06 300x450x100
 VSG-07 400x400x100
 VSG-09 450x600x100
 VSG-10 630x630x130
 VSG-11 600x900x130



EDM Filter For EDM (oil)
 SH-01 (150x72x450)
 SH-03 (260x46x280)
 SH-04 (260x29x340)
 SH-09 (150x33x360)
 SH-09S(150x91x309)
 SH-300L (150x33x300)



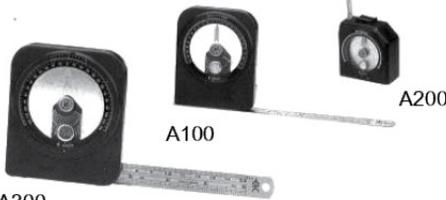
水平角度儀



A600



A800



A100



A500

A300

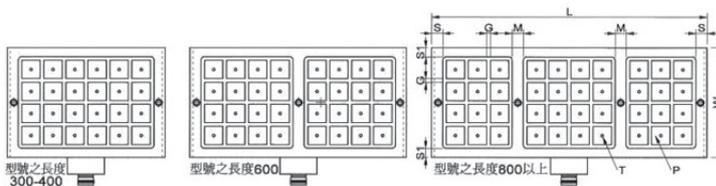
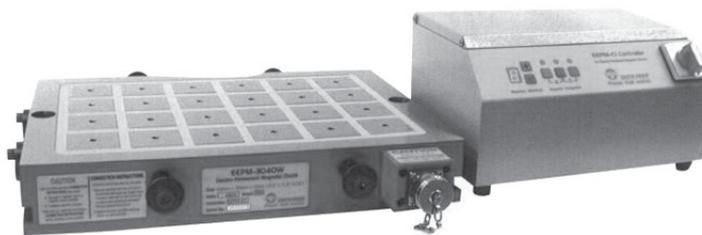
A200

SPECIFICATION

CODE	價格	L X W X H	容器	ACU
A100		78X62X14mm	膠盒	0.2°
A300		93X79X15mm	膠盒	0.1°
A500		93X79X16mm	鐵盒	0.083°
A600		140X130X20mm	鐵盒	0.05°
A200		70X65X30mm	膠盒	0.2°
		13mm / 1/2" X 3M/10'		
A800		335X73X30mm	合金盒	0.2°
		13mm / 1/2" X 3M/10'		

Permanent-Electro Magnetic

5 Sides Machining, Strong Clamping Force, Fast Setting, High Safety





CODE	DIMENSION		BAHT	電壓380V/單相	CODE	DIMENSION		BAHT
	W	L				W	L	
EEPM-2540	240	430			EEPM-2540	240	430	
EEPM-2560	240	590			EEPM-2560	240	590	
EEPM-2580	240	810			EEPM-2580	240	810	
EEPM-2590	240	870			EEPM-2590	240	870	
EEPM-25100	240	990			EEPM-25100	240	990	
EEPM-3030	300	310			EEPM-3030	300	310	
EEPM-3040	300	430			EEPM-3040	300	430	
EEPM-3060	300	590			EEPM-3060	300	590	
EEPM-3080	300	810			EEPM-3080	300	810	
EEPM-3090	300	870			EEPM-3090	300	870	
EEPM-30100	300	990			EEPM-30100	300	990	
EEPM-4040	420	430			EEPM-4040	420	430	
EEPM-4050	430	480			EEPM-4050	430	480	

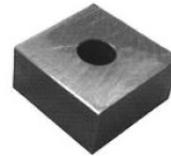
Spring Block

: EEPM-550 50 X 50 X 25mm

Magnetic Transisting Soft Jaw : EEPM-SP50 51 X 47 X 48mm



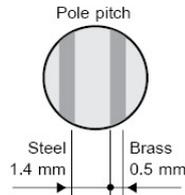
彈簧塊



導磁軟爪



荷蘭 WALKER 強力細目永久磁盤



CODE:

WKN-612P
 WKN-614P
 WKN-618P
 WKN-816P
 WKN-818P

SIZE:

150 x 300mm
 150 x 350mm
 150 x 450mm
 200 x 400mm
 200 x 450mm



游標卡尺 160系列
VERNIER CALIPERS



數顯卡尺 500系列
DIGIMATIC CALIPERS



數顯卡尺(防水、防塵) 500系列
DIGIMATIC CALIPERS



- 本系列具有高度防水、防油、防塵性能
- 環保規格 IP67

數顯超硬合金卡尺 500系列
DIGIMATIC CALIPERS WITH CARBIDE-TIPPED



- SPC數據輸出

太陽能數顯卡尺 500系列
DIGIMATIC CALIPERS-NO BATTERY



帶表卡尺 505系列
DIAL CALIPERS



深度游標卡尺 527系列
VERNIER DEPTH GAGES



倒勾式深度游標卡尺 527系列
VERNIER DEPTH GAGES



帶表深度游標卡尺 527系列
DIAL DEPTH GAGES



數顯深度卡尺 571系列
DIGIMATIC DEPTH GAGES (SPC)



- SPC數據輸出



- IP 67

游標卡尺 530系列
VERNIER CALIPERS



自鎖式游標卡尺 531系列
VERNIER CALIPERS WITH THUMB CLAMP



微調式游標卡尺 532系列
VERNIER CALIPERS WITH FINE ADJUSTMENT



數顯長量爪卡尺 550系列



- SPC數據輸出

數顯長量爪雙向卡尺 551系列



- SPC數據輸出

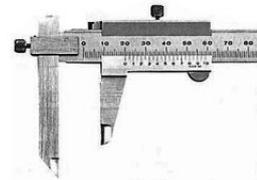
長量爪雙向游標卡尺 533系列
VERNIER CALIPERS WITH FINE ADJUSTMENT



長量爪游標卡尺 534系列
LONG JAW VERNIER CALIPERS



段差游標卡尺 536系列
OFFSET VERNIER CALIPERS



中心距游標卡尺 536系列
OFFSET CENTERLINE VERNIER CALIPERS



尖爪游標卡尺 536系列
POINT VERNIER CALIPERS



薄爪游標卡尺 536系列
BLADE TYPE VERNIER CALIPERS





長量爪內徑游標卡尺 536系列
 INSIDE VERNIER CALIPERS – KNIFE-EDGE TYPE



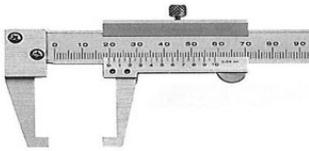
內溝槽游標卡尺 536系列
 INSIDE VERNIER CALIPERS – INSIDE GROOVE TYPE



點量爪內溝槽游標卡尺 536系列
 INSIDE VERNIER CALIPERS – POINT JAW TYPE



頸套型游標卡尺 536系列
 NECK TYPE CALIPERS



外點式游標卡尺 536系列
 OUTSIDE POINT TYPE CALIPERS



● 可在缸筒和凹洞測量壁厚

管壁厚度游標卡尺 536系列
 TUBE THICKNESS TYPE VERNIER CALIPERS



短足式游標卡尺 536系列
 HOOK TYPE VERNIER CALIPERS

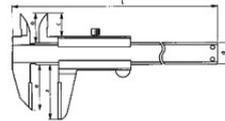


● 測溝槽內外

轉爪式游標卡尺 536系列
 SWIVEL TYPE VERNIER CALIPERS



劃線游標卡尺 536系列
 SCRIBING VERNIER CALIPERS 536-222



數顯超長爪式碳纖維卡尺 552系列
 DIGIMATIC CARBON FIBER CALIPERS WITH LONG JAWS (SPC)



● SPC數據輸出

數顯碳纖維卡尺(可更換量爪) 552系列
 DIGIMATIC CARBON FIBER CALIPERS WITH INTERCHANGEABLE JAWS (SPC)



● SPC數據輸出

數顯背量爪式中心線卡尺 573系列
 BACK-JAW CENTERLINE DIGIMATIC CALIPERS (SPC)



● SPC數據輸出 ● 中心 - 中心

數顯背量爪式中心線卡尺 573系列
 BACK-JAW CENTERLINE DIGIMATIC CALIPERS (SPC)



● SPC數據輸出 ● 邊 - 中心

數顯段差卡尺 573系列
 OFFSET ABS DIGIMATIC CALIPERS (SPC)



● SPC數據輸出

數顯中心距卡尺 573系列
 OFFSET CENTERLINE ABS DIGIMATIC CALIPERS (SPC)



● SPC數據輸出 573-605,606,608為公制型

數顯尖爪卡尺 573系列
 POINT ABS DIGIMATIC CALIPERS (SPC)



● SPC數據輸出

數顯薄爪卡尺 573系列
 BLADE TYPE ABS DIGIMATIC CALIPERS



● SPC數據輸出

數顯長量爪內徑卡尺 573系列
 INSIDE ABS DIGIMATIC CALIPER (SPC)



● SPC數據輸出

數顯內溝槽卡尺 573系列
 INSIDE ABS DIGIMATIC CALIPER (SPC)



● SPC數據輸出

數顯內溝槽卡尺(點量爪) 573系列
 INSIDE ABS DIGIMATIC CALIPERS (SPC)



● SPC數據輸出

數顯頸套型卡尺 573系列
 NECK TYPE ABS DIGIMATIC CALIPERS (SPC)



● 可在缸筒和凹洞內測量壁厚

● SPC數據輸出



數顯外點式卡尺 573系列
OUTSIDE POINT TYPE ABS DIGIMATIC CALIPERS (SPC)



- 可在缸筒和凹洞內測量壁厚
- SPC數據輸出

數顯測管卡尺 573系列
TUBE THICKNESS TYPE ABS DIGIMATIC CALIPERS (SPC)



- SPC數據輸出

數顯定壓卡尺 573系列
LOW FORCE DIGIMATIC CALIPERS (SPC)



- SPC數據輸出

數顯劃線卡尺 573系列
SCRIBING ABS DIGIMATIC CALIPERS



- SPC數據輸出

數顯快速卡尺 573系列
DIGIMATIC SNAP CALIPERS



- SPC數據輸出

數顯輪胎花紋深度尺 700系列
DIGITAL TIRE THREAD DEPTH GAGES



數顯快速厚度計 700系列
QUICK-MINI

- 適用於紙、皮革、□、塑性材料等厚度測量



雙柱帶表高度尺 192系列
DIAL HEIGHT GAGES WITH COUNTER



雙柱數顯高度尺 192系列
DIGIMATIC HEIGHT GAGES WITH COUNTER



- SPC數據輸出

帶表高度尺 506及514系列
DIAL HEIGHT GAGES



數顯高度尺(劃線尺) 570系列
DIGIMATIC HEIGHT GAGES



- 帶有SPC輸出接口

高精度數顯高度測量儀 518及574系列
QM-HITE HIGH PRECISION DIGITAL HEIGHT GAGES



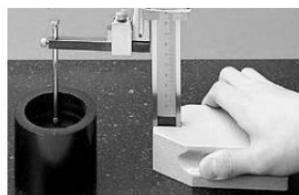
- 特別選件另報價

中心測頭 高度尺附件
CENTER PROBE



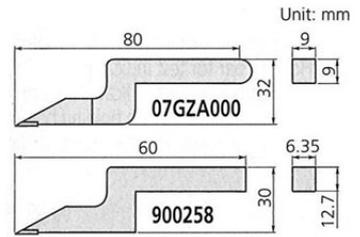
- 測量孔徑範圍1-38mm

深度輔助器中心測頭 高度尺附件
DEPTH GAGE ATTACHMENTS



- 測量最小直徑5.5mm

劃線刀、劃線刀固定器 高度尺附件
SCRIBERS, SCRIBER CLAMP



二次元高精度高度測量儀 518系列
LINEAR HEIGHT 2D Measurement System



- 特別選件另報價

百分表/千分表 1系列
DIAL INDICATORS



1003 1911 1044S



1929S 2046S 2050S



2109S-10 2971 2990



3058S-19 3019S-10 4046S



IDC 數顯千分表/百分表 543系列
DIGIMATIC INDICATORS



543-390 543-490B

- 543-265B, 543-264B
 測缸規專用 543-264B公制型

IDN/B 數顯千分表 543系列
DIGIMATIC INDICATORS



IP66 SPC數據輸出

IDC 數顯千分表 543系列
DIGIMATIC INDICATORS



- 信號輸出：
 -NG/OK/+NG
 (只限判斷結果)

IDC 數顯千分表 543系列-計算型
DIGIMATIC INDICATORS



- SPC數據輸出

IDS 數顯千分表/百分表 543系列
DIGIMATIC INDICATORS



- SPC數據輸出

IDF 數顯千分表 543系列
DIGIMATIC INDICATORS



- SPC數據輸出

IDH 高精度數顯千分表 543系列
DIGIMATIC INDICATORS



- SPC數據輸出

IDU 數顯百分表 575系列
DIGIMATIC INDICATORS



- SPC數據輸出

磁性表座 7系列
MAGNETIC STANDS



7010S-10 7032 7014

測量台 7、519系列
DIAL GAGE STANDS



7001 519-109M

7系列垂直行程100mm 519系列垂直行程335mm

測量台 7系列
DIAL GAGE STANDS



垂直行程100mm
 帶有1mm微調

測量台 215系列
COMPARATOR STANDS



- 215-505-10
 垂直行程250mm
 全行程微調

- 215-405-10
 垂直行程200mm
 帶有1mm微調

花崗石測量台 215系列
GRANITE COMPARATOR STAND



- 垂直行程：
 215-151-10 260mm
 215-153-10 250mm
 215-156-10 270mm
 全行程帶微調

校表儀 170系列
UDT-2 DIAL GAGE TESTERS



校表儀 521系列
CALIBRATION TESTERS

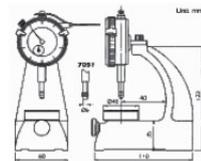


數顯式測量台 547系列
DIGIMATIC UPRIGHT GAGES



- 最大工件高度
 30mm (1.2")

量表式測量台 7系列
DIAL UPRIGHT GAGES



量表外徑規 201系列
DIAL SNAP GAGES



滾筒測徑規 310系列
ROLL CALIPERS



測缸規 511系列
BORE GAGES





測缸規 (附微分頭) 511系列
 BORE GAGES WITH MICROMETER HEAD



測缸規 (用於盲孔) 511系列
 BORE GAGES FOR BLIND HOLES



測缸規 (短足型) 511系列
 BORE GAGES SHORT LEG TYPE



測缸規 (用於小孔) 526系列
 BORE GAGES FOR SMALL HOLES

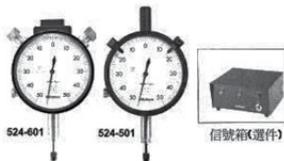


數顯高精度測缸規 511系列
 ABSOLUTE DIGIMATIC BORE GAGES

- 顯示部回轉320°
- 自動尋找最高點
- 3組記憶數值



高精度單轉千分表 524系列
 HIGH-ACCURACY ONE-REVOLUTION DIAL INDICATOR



*信號Hicator (需要信號箱選件用於進行GO/□NG判斷)

觸點壓力針 546系列
 DIAL TENSION GAGES



標準型

深度表 7系列
 DIAL DEPTH GAGES



7222 7211 7231

數顯深度表 547系列
 DIGIMATIC DEPTH GAGES

- SPC數據輸出



厚薄表 7系列
 DIAL THICKNESS GAGES



7331 7309

數顯厚薄表 547系列
 DIGIMATIC THICKNESS GAGES

- SPC數據輸出



度盤內卡規 209系列
 DIAL CALIPER GAGES (INTERNAL)



槓桿表 (較表仔) 513系列
 DIAL TEST INDICATORS



513-404E 513-444E 513-284GE



513-414E 513-455E 513-304GE

槓桿表 (較表仔) 513系列
 DIAL TEST INDICATORS



513-514T 513-517WT 513-503T

錐型外徑千分尺 (絕熱框架) 102系列
 OUTSIDE MICROMETERS WITH RATCHET STOP



錐型外徑千分尺 102系列
 OUTSIDE MICROMETERS WITH RATCHET THIMBLE



- 快速設定 - 回轉1mm 主軸φ8mm

外徑千分尺 103系列
 OUTSIDE MICROMETERS



外徑千分尺 103系列
 OUTSIDE MICROMETERS



外徑千分尺 (套裝) 103系列
 OUTSIDE MICROMETER SETS



外徑千分尺 (可換測砧) 104系列
 OUTSIDE MICROMETERS



數顯外徑千分尺 (可換測砧) 340系列
 DIGIMATIC MICROMETERS



高精度數顯外徑千分尺 293系列
 DIGIMATIC OUTSIDE MICROMETERS (SPC)



數字外徑千分尺 193系列
 DIGIT OUTSIDE MICROMETERS



數顯外徑千分尺 293系列
DIGIMATIC OUTSIDE MICROMETERS



- 環保規格IP65
- 摩擦輪套管

數顯外徑千分尺(快速測量) 293系列
DIGIMATIC MICROMETERS DIGIMATIC OUTSIDE MICROMETERS



- 適合高速測量, 每圈心軸進給2mm
- 環保規格IP65

電子數顯外徑千分尺(輕便型) 293系列
DIGIMATIC OUTSIDE MICROMETERS



數顯外徑千分尺 293系列
DIGIMATIC OUTSIDE MICROMETERS (SPC)



- SPC數據輸出
- 快速測量、防水、防油

表盤外徑千分尺 107系列
OUTSIDE MICROMETERS



- 量表另選購

限界外徑千分尺 113系列
LIMIT MICROMETERS



指示外徑千分尺 510系列
INDICATING MICROMETERS



指示外徑千分尺 523系列
DIAL SNAP METERS



數顯直進式外徑千分尺 406系列
DIGIMATIC OUTSIDE MICROMETERS WITH RATCHET STOP



測距外徑千分尺 111系列
SPLINE MICROMETERS



數顯測距外徑千分尺 331系列
DIGIMATIC SPLINE MICROMETERS



● SPC數據輸出
尖頭外徑千分尺 112系列
POINT MICROMETERS



數字尖頭外徑千分尺 142系列
DIGIT POINT MICROMETERS

數顯尖頭外徑千分尺 342系列
DIGIMATIC POINT MICROMETERS



● SPC數據輸出
端子外徑千分尺 112系列
CRIMP HEIGHT MICROMETERS



數字端子外徑千分尺 342系列
DIGIMATIC CRIMP HEIGHT MICROMETERS



- SPC數據輸出
- 另有142系列, 為跳字型

三溝外徑千分尺 114系列
V-ANVIL MICROMETERS (3 FLUTES)



* 錫鋼測頭

五溝外徑千分尺 114系列
V-ANVIL MICROMETERS (5 FLUTES)



數顯三溝外徑千分尺 314系列
DIGIMATIC V-ANVIL MICROMETERS (3 FLUTES)



● SPC數據輸出
數顯測管外徑千分尺 295及395系列
DIGIMATIC TUBE MICROMETERS



● SPC數據輸出
測管外徑千分尺 115系列
TUBE MICROMETERS



數顯測管外徑千分尺 395系列
DIGIMATIC TUBE MICROMETERS



● SPC數據輸出
萬能式外徑千分尺 117系列
UNI-MIKE MICROMETERS





數顯萬能式外徑千分尺 317系列
 DIGIMATIC UNI-MIKE MICROMETERS



U型外徑千分尺 118系列
 SHEET METAL MICROMETERS

118-102



數顯U型外徑千分尺 389系列
 DIGIMATIC SHEET METAL MICROMETERS

● SPC數據輸出



鋼板外徑千分尺 119系列
 SHEET METAL MICROMETER WITH DIAL



薄片外徑千分尺 122系列
 BLADE MICROMETERS



數顯薄片外徑千分尺 422系列
 DIGIMATIC BLADE MICROMETERS



● SPC數據輸出

數顯薄片外徑千分尺 422系列
 DIGIMATIC BLADE QUICKMIKE MICROMETERS



● SPC數據輸出 ● 快速測量、防水、防油

盤式外徑千分尺 123系列
 DISC MICROMETERS



數字盤式外徑千分尺 223系列
 DIGIT DISK MICROMETERS

電子數顯盤式外徑千分尺 323系列
 DIGIMATIC DISC MICROMETERS



● SPC數據輸出

直進盤式外徑千分尺 169系列
 DISK MICROMETERS



數顯直進盤式外徑千分尺 369系列
 DIGIMATIC DISK MICROMETERS



● SPC數據輸出

數顯盤式外徑千分尺 369系列
 DIGIMATIC DISK QUICKMIKE MICROMETERS



● SPC數據輸出 ● 快速測量、防水、防油

齒輪外徑千分尺 124系列
 GEAR TOOTH MICROMETERS



齒輪測砧 124系列
 INTERCHANGEABLE BALL ANVILS



數顯齒輪外徑千分尺 324系列
 DIGIMATIC GEAR TOOTH MICROMETERS



● SPC數據輸出

螺絲外徑千分尺 125系列
 SCREW THREAD MICROMETERS



螺絲外徑千分尺 126系列
 SCREW THREAD MICROMETERS



數顯螺紋外徑千分尺 326系列
 DIGIMATIC SCREW THREAD MICROMETERS



● SPC數據輸出

螺紋測砧 126系列
 ANVIL-SPLINDLE TIPS



卡尺型外徑千分尺 143系列
 CALIPER TYPE MICROMETER



數顯卡尺型外徑千分尺 343系列
 DIGIMATIC CALIPER TYPE MICROMETER



● SPC數據輸出

測罐千分尺 147系列
 CAN SEAM MICROMETER



● 可測量罐型接縫的寬度、高度、深度

輪殼千分尺 147系列
 HUB MICROMETERS



147-301

● 在孔內測量輪殼的厚度和側翼

鋼線千分尺 147系列
 WIRE MICROMETER



● 用於測量線的粗細及鋼珠直徑



數顯外徑千分尺(可調測力) 227系列
DIGIMATIC MICROMETER



- SPC數據輸出
- 用於測量塑膠部件等類型彈性工件

外徑千分尺台座 156系列
MICROMETER STAND

156-101



千分尺校正桿 167系列
MICROMETER STANDARDS



螺紋千分尺校正桿 167系列
STANDARDS FOR SCREW THREAD MICROMETER



V溝千分尺校正桿 167系列
STANDARDS FOR V-ANVIL MICROMETER



光學檢查平鏡 157系列
OPTICAL PARALLELS



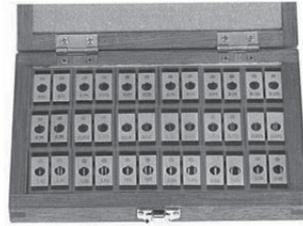
- 用來檢測千分尺表面的平行度和平面度

光學檢查平鏡 158系列
OPTICAL FLATS



- 用來精確檢測千分尺或量塊表面的平面度

精密三線規 311系列
3-WIRE UNITS



- 用標準千分尺可以簡便地測量螺紋的螺距

測溝千分尺 146系列
GROOVE MICROMETERS



直進式測溝千分尺 146系列
GROOVE MICROMETERS



深度千分尺 128、129系列
DEPTH MICROMETERS
128-101



電子數顯深度千分尺 329系列
DIGIMATIC DEPTH MICROMETERS



- SPC數據輸出

內徑千分尺 145系列
INSIDE MICROMETERS



電子數顯內徑千分尺 345系列
DIGIMATIC INSIDE MICROMETERS



- SPC數據輸出

接桿式內徑千分尺 137系列
TUBULAR INSIDE MICROMETERS

137-105



- 測頭位移量13mm

數顯接桿式內徑千分尺 337系列
DIGIMATIC TUBULAR INSIDE MICROMETERS



- SPC數據輸出 測頭位移量25mm

接桿式內徑千分尺 139系列
TUBULAR INSIDE MICROMETERS



- 測頭位移量25mm

單體內徑千分尺 133系列
TUBULAR INSIDE MICROMETER



133-143



133-144



133-146



133-150

單體內徑千分尺(套裝) 133系列
TUBULAR INSIDE MICROMETER(SET)

133-902



輕型接桿式內徑千分尺 141系列
INSIDE MICROMETER

141-101





三點內徑千分尺 368系列
THREE POINT INTERNAL MICROMETERS

368-001
 368-168

★ 可測盲孔

三點內徑千分尺 368系列
THREE POINT INTERNAL MICROMETERS

368-706 368-719

套裝三點內徑千分尺 368系列
THREE-POINT INTERNAL MICROMETERS HOLTEST COMPLETE-UNIT SETS

368-906

● 可測盲孔 (附環規延長桿)

套裝三點內徑千分尺 368系列
THREE-POINT INTERNAL MICROMETERS HOLTEST COMPLETE-UNIT SETS

368-991

● 附環規延長桿

數顯三點內徑千分尺 468系列
DIGIMATIC THREE POINT INTERNAL MICROMETERS

● SPC數據輸出 ● 可測盲孔

468-164
 468-173

數顯三點內徑千分尺(套裝) 468系列
DIGIMATIC THREE POINT INTERNAL MICROMETERS

● SPC數據輸出

數顯三點內徑千分尺(套裝) 468系列
DIGIMATIC THREE POINT INTERNAL MICROMETERS

● SPC數據輸出

數顯快測三點內徑千分尺 568系列
DIGIMATIC SNAP-OPEN BORE GAGES

● SPC數據輸出

數顯快測三點內徑千分尺(套裝) 568系列
DIGIMATIC SNAP-OPEN BORE GAGES

● SPC數據輸出
 *可更換測砧型

校正環規 177系列
SETTING RINGS

測微頭(千分尺頭) 110系列
MICROMETER HEADS

110-101

測微頭(千分尺頭) 148系列
MICROMETER HEADS

測微頭(千分尺頭) 148系列
MICROMETER HEADS

● 大套筒直徑方便讀數

148-307 148-309 148-311

測微頭(千分尺頭) 148系列
MICROMETER HEADS

● 鬆開鎖緊螺釘, 套筒可在任意位置設置零點

148-503 148-504

測微頭(千分尺頭) 148系列
MICROMETER HEADS

● 大套筒直徑方便讀數

148-104 148-132

測微頭(千分尺頭) 149系列
MICROMETER HEADS

149-132 149-134

測微頭(千分尺頭) 150系列
MICROMETER HEADS

150-801 150-191

測微頭(千分尺頭) 152系列
MICROMETER HEADS

152-283

● 套筒直徑 φ 49mm

測微頭(千分尺頭) 151系列
MICROMETER HEADS

151-224 151-223

測微頭(千分尺頭) 152系列
MICROMETER HEADS

● X、Y平面測量

152-310

測微頭(千分尺頭) 153系列
MICROMETER HEADS

153-201

數顯測微頭 164系列
DIGIMATIC MICROMETER HEADS

● SPC數據輸出
 主軸 φ 8mm

164-164

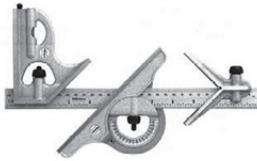


數顯測微頭 350系列
DIGIMATIC MICROMETER HEADS



- SPC數據輸出

萬能角度尺 180系列
COMBINATION SQUARE SET



萬能分度尺 187系列
UNIVERSAL BEVEL PROTRACTOR



數顯萬能分度尺 187系列
DIGIMATIC UNIVERSAL PROTRACTOR



187-501

精密角尺 916系列
PRECISION SQUARES



精密水平儀 960系列
PRECISION LEVELS



960-606

960-706

- 靈敏度0.02mm/m

厚度規 184系列
THICKNESS GAGES



184-307S

半徑規 (R規) 186系列
RADIUS GAGES



牙規 (螺距規)
SCREW PITCH GAGE



小孔規 154系列
SMALL HOLE GAGE SET



伸縮規 155系列
TELESCOPING GAGE SET



放大鏡 183系列
POCKET MAGNIFIERS



183-201

183-202

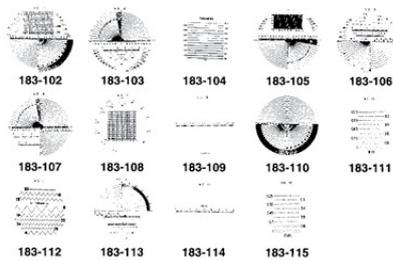
放大鏡 183系列
POCKET COMPARATORS



183-101

- 精裝品：可調焦距

標準鏡片 183系列
RETICLES



183-102

183-103

183-104

183-105

183-106

183-107

183-108

183-109

183-110

183-111

183-112

183-113

183-114

183-115

放大鏡 183系列
CLEAR LOUPE



183-301

183-302

183-303

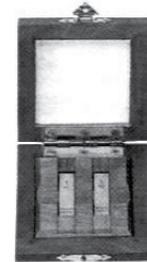
變焦放大鏡 183系列
ZOOM LOUPE



塊規保養工具 516系列
MAINTENANCE KIT FOR GAUGE BLOCKS



精密鎢鋼塊規 516系列
CARBIDE GAUGE BLOCKS



精密鋼質塊規 516系列
STEEL GAUGE BLOCKS



精密鋼質塊規 516系列
STEEL GAUGE BLOCKS



精密直角定規 311系列
SQUARE MASTERS





卡尺檢測規 515系列
CALIPER CHECKERS

- 陶瓷材質



內徑千分尺檢測規 515系列
INSIDE MICRO CHECKERS

- 陶瓷材質



高精度步距規 515系列
HIGH ACCURACY CHECK MASTERS

- 鋼制材質



高精度步距規 515系列
HIGH ACCURACY CHECK MASTERS

- 陶瓷材質



標準尺 182系列
STANDARD SCALES



LGK 線性測微計 542系列
LGK LINEAR GAGES



LGF 線性測微計 542系列
LGF LINEAR GAGES



542-,165,166,174 帶有原點標識

LGB 線性測微計 542系列
LGB LINEAR GAGES



LGH 線性測微計 542系列
LGH LINEAR GAGES



LG 線性測微計 542系列
LG LINEAR GAGES



LGD 光柵長度計 542系列
LGD LINEAR GAGES



LGS 光柵長度計 542系列
LGS LINEAR GAGES



編號	規格	
575-303	0-12mm	分辨率 0.01mm

EG 計數器 542系列
EG COUNTER



EB 計數器 542系列
EB COUNTER



EH 計數器 542系列
EH COUNTER



EV-16P/D/Z 計數器 542系列
EV-16 COUNTER



特別附件 02ADB440 I/O 訊號輸出接頭

D-EV 顯示器 (用於EV-16計數器)
EV-16 COUNTER



計數器用特別附件
 EV, EB, EH計數器及D-EV須選購

02ADB440



表面粗糙度儀(SJ-210) 178系列
PORTABLE SURFACE ROUGHNESS TESTERS



表面粗糙度儀 (SJ-310) 178系列
PORTABLE SURFACE ROUGHNESS TESTERS



- 特殊配件另報價

工具顯微鏡 176系列
TOOLMAKER'S MICROSCOPES

- 測微頭另購



立體顯微鏡 377系列
STEREO MICROSCOPES



MSM-412 MSM-Z414 MSM-465

SPC統計輸送器 264系列
SPC STATISTICAL PROCESS CONTROL



264-002

264-504



百分表蓋(塑膠)
 BACKS FOR DIGIMATIC & DIAL
 INDICATOR



槓桿表(較表仔) 配件
 ACCESSORIES FOR DIAL TEST
 INDICATORS



902804

900321



901959



901916



900209

測缸規配件
 PART FOR BORE GAGES

適用於6-10mm (511標準系列):
 測頭

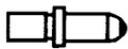


適用於10-18.5mm (511標準系列):
 測頭 及 墊片

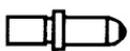


適用於160-400mm (511標準系列):
 延長桿 及

測頭 及 墊片

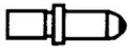


適用於18-35mm (511標準系列):
 測頭 及 墊片



適用於35-160mm (511標準系列):
 延長桿 及

測頭 及 墊片



延長桿(測缸規用)
 EXTENSION RODS



昇降扳手(百分表用)
 SPINDLE LIFTING LEVERS

900527

21AZ8149



903424

21AZ8150

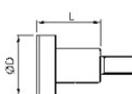
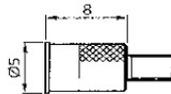
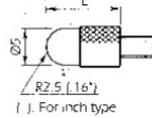
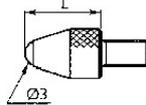
延長桿(三點內測千分尺用)
 EXTENSION RODS



延長桿(百分表用)
 EXTENSION RODS



百分表測頭
 CONTACT POINTS FOR DIAL
 INDICATOR



槓桿表(較表仔) 測頭
 CONTACT POINTS FOR DIAL TEST
 INDICATOR



量表心軸提昇線
 SPINDLE LIFTING CABLES



白色固定扣
 SPINDLE
 LIFTING KNOB



連接電纜線(輸出功能用)
 SPC CONNECTING CABLES

直型

回轉型

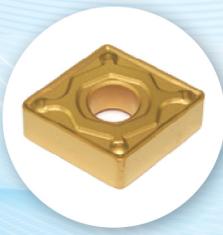
右轉型

左轉型

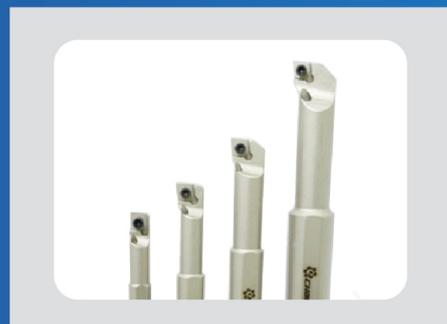
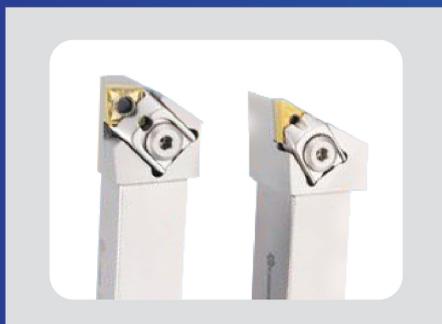


卡尺固定基座
 DEP DEPTH BASE ATTACHMENT





ECHAINTOOL
TOP CUTTING TOOLS
BRAND IN TAIWAN





VERTEX



High Precision Machine Accessories

Horizontal Vertical
Rotary-Table



HV-6, 8, 10, 12, 14, 16

Super Indexing Spacer



CS-6, 8

Hydraulic Machine Vises



VH-4, 5, 6, 8, 8L

Hydraulic Machine Vises



VHO-5, 6, 8

Ang-Fixed Milling Vise



VA-4, 5

52-Pcs Steel Clamping Kit



CK-103A~206, 08~18

Ground Parallels



VP-118A

ER Spring Collet
Chuck System
DIN 6499



HV-6, 8, 10, 12, 14, 16

Collet Holder With BT Taper
Shank (For CNC Machine
Center) ER-32, ER-40



BT30-ER32-60L, BT40-ER40-80L,
BT50-ER50-150L

Integrated Type
Keyless Drill Chuck



INT-8-MT2, JC20, INT13-R8, MT3,
MT4, NT30, NT40, BT40, BT50, INT16
-NT30, NT40, JC20, JC25, JC32, BT40

Precision Drill Grinder



VDG-13A, 25, 30

Precision End Mill Grinder



VEG-13A, 25A

ตัวแทนนำเข้าและจำหน่ายจากต่างประเทศ

เครื่องมือจักรกลโรงงานอุตสาหกรรม อุปกรณ์และชิ้นส่วนมาตรฐานของแม่พิมพ์ปั๊มโลหะ-แม่พิมพ์พลาสติก นำเข้าสินค้าหลากหลายประเภท ภายใต้ยี่ห้อ VERTEX , SOMTA , OSG , E-CHAIN , LAMINA , END MILLS STK STM SCS และรับสั่งทำสินค้าไซส์พิเศษตาม DRAWING ราคาข้อมเยาว์ส่งมอบงานตรงเวลา



บริษัท ไวว่า ดีเวลอปเม้นท์ จำกัด

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📞 0-2361-8388-9, 0-2748-8284

56/1 ซ.อุดมสุข 60 ถนนสุขุมวิท 103 แขวงหนองบอน เขตประเวศ กรุงเทพมหานคร 10250
56/1 SOI UDOMSUK 60, SUKHUMVIT 103 ROAD., NONGBON, PRAVEJ, BANGKOK THAILAND 10250