

# STERLING



**STERLING**

*Competitive Quality through Efficiency*

**MACHINE**

**ACCESSORIES**

Sterling TSI was founded with the desire to bring hi-tech products to Asia, and to export the finest goods manufactured in Asia. It is our aim to provide customers with quality products at competitive prices, communicated, and delivered in the most efficient manner.

In addition to the accessories shown in this catalogue, we are also proud to be agents for:



Sterling is ideally positioned as a strong partner in the machine tool industry. We provide solutions to machine tool makers by importing both competitive and high level products. We are able to partner with machine tool builders and accessory producers to supply international customers with the best of Taiwan's quality exports.

Sterling - competitive quality through efficiency.

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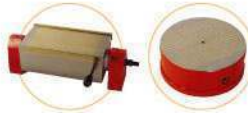
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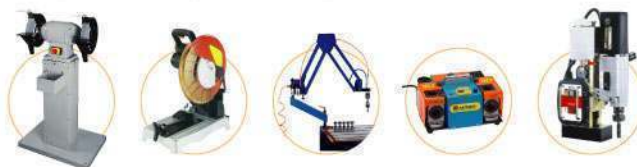
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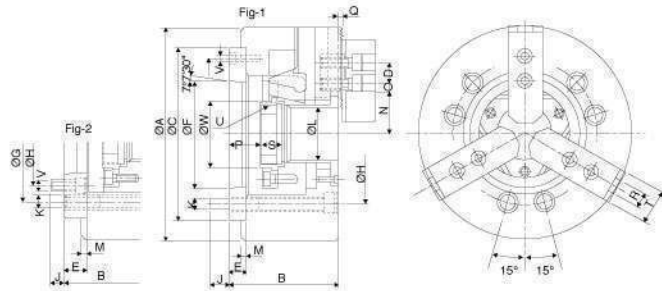


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## 3 JAW WEDGE TYPE THROUGH HOLE POWER CHUCK-WITH ADAPTOR

► 2111-2205~2111-2219

TAIWAN



### SPECIFICATIONS :

CODE No.	Mfg. No.	Through Hole (mm)	Plunger Stroke	Jaw Stroke	Max. Draw Bar Pull Force	Max. Gripping Force	Max. Speed (r.p.m)	Weight (kgs)	Matching Cylinder	Max. Operating Pressure	Matching Soft Jaw	Matching Hard Jaw
2111-2205	N-205A4	Ø33	10 mm	5.4 mm	1700 Kgf	3600 Kgf	7000	7.8	M1036	29.6 kgf/cm <sup>2</sup>	HC05	HJ05
2111-2206	N-206A5	Ø45	12 mm	5.5 mm	2200 Kgf	5700 Kgf	6000	14.7	M1246	28.5 kgf/cm <sup>2</sup>	HC06	HJ06
2111-2208	N-208A5	Ø52	16 mm	7.4 mm	3500 Kgf	8900 Kgf	4900	25.8	M1552	26.5 kgf/cm <sup>2</sup>	HC08	HJ08
2111-2209	N-208A6	Ø52	16 mm	7.4 mm	3500 Kgf	8900 Kgf	4900	25.0	M1552	26.5 kgf/cm <sup>2</sup>	HC08	HJ08
2111-2210	N-210A6	Ø75	19 mm	8.8 mm	4500 Kgf	11300 Kgf	4200	41.0	M1875	27.5 kgf/cm <sup>2</sup>	HC10	HJ10
2111-2211	N-210A8	Ø75	19 mm	8.8 mm	4500 Kgf	11300 Kgf	4200	38.0	M1875	27.5 kgf/cm <sup>2</sup>	HC10	HJ10
2111-2212	N-212A8	Ø91	23 mm	10.6 mm	5600 Kgf	14680 Kgf	3400	59.5	M2091	27.5 kgf/cm <sup>2</sup>	HC12	HJ12
2111-2215	N-215A8	Ø117.5	23 mm	10.6 mm	7240 Kgf	18355 Kgf	2500	125.0	M2511	23.5 kgf/cm <sup>2</sup>	HC15	HJ15
2111-2216	N-215A11	Ø117.5	23 mm	10.6 mm	7240 Kgf	18355 Kgf	2500	118.0	M2511	23.5 kgf/cm <sup>2</sup>	HC15	HJ15
2111-2218	N-218A8	Ø117.5	23 mm	10.6 mm	7240 Kgf	18355 Kgf	2000	178.0	M2511	23.5 kgf/cm <sup>2</sup>	HC15	HJ15
2111-2219	N-218A11	Ø117.5	23 mm	10.6 mm	7240 Kgf	18355 Kgf	2000	171.0	M2511	23.5 kgf/cm <sup>2</sup>	HC15	HJ15

### DIMENSIONS :

Unit:mm

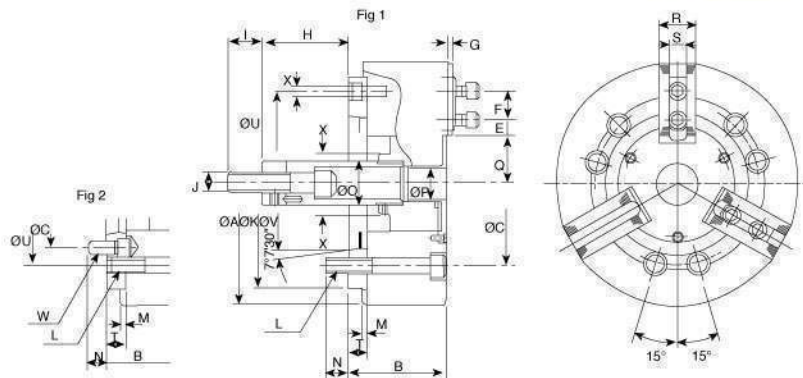
CODE No.	A	B	G	D	E	F	C	H	J	K	L	M
2111-2205	135	71	96.00	14	15	63.513	110	82.55	15.5	3 x M10	33.0	4
2111-2206	169	91	116.00	20	15	82.563	140	104.78	16.0	6 x M10	45.0	5
2111-2208	210	109	133.35	25	23	82.563	170	104.78	13.0	6 x M12	52.0	5
2111-2209	210	103	150.00	25	17	106.375	170	133.35	18.0	6 x M12	52.0	5
2111-2210	254	120	171.45	30	25	106.375	220	133.35	18.0	6 x M16	75.0	5
2111-2211	254	113	190.00	30	18	139.719	220	171.45	24.0	6 x M16	75.0	5
2111-2212	304	122	190.00	30	18	139.719	220	171.45	25.0	6 x M16	91.0	6
2111-2215	381	160	235.00	43	33	139.719	300	171.45	24.0	6 x M20	117.5	6
2111-2216	381	149	260.00	43	22	196.869	300	235.00	28.0	6 x M20	117.5	6
2111-2218	450	160	235.00	43	33	139.719	300	171.45	24.0	6 x M20	117.5	6
2111-2219	450	149	260.00	43	22	196.869	300	235.00	28.0	6 x M20	117.5	6

CODE No.	N (max)	N (min)	O (max)	O (min)	P (max)	P (min)	Q	R	S	T	U (max)	V	W
2111-2205	26.5	23.80	19.75	7.75	16.0	6.0	2	10	20.0	23	M40 x 1.5	3 x M6	45
2111-2206	32.0	29.25	22.75	9.25	26.0	14.0	2	12	19.0	32	M55 x 2.0	3 x M6	60
2111-2208	38.7	35.00	29.75	14.75	37.5	21.5	2	14	20.5	37	M60 x 2.0	6 x M10	66
2111-2209	38.7	35.00	29.75	14.75	31.5	15.5	2	14	20.5	37	M60 x 2.0	3 x M6	66
2111-2210	51.0	46.60	33.75	14.25	33.5	14.5	2	16	25.0	42	M85 x 2.0	6 x M12	94
2111-2211	51.0	46.60	33.75	14.25	26.5	7.5	2	16	25.0	42	M85 x 2.0	6 x M8	94
2111-2212	61.3	56.00	45.75	15.75	26.0	3.0	2	21	28.0	52	M100 x 2.0	6 x M8	108
2111-2215	82.0	76.70	46.75	13.75	40.0	17.0	5	24	43.0	62	M130 x 2.0	6 x M16	139
2111-2216	82.0	76.70	46.75	13.75	29.0	6.0	5	24	43.0	62	M130 x 2.0	6 x M10	139
2111-2218	82.0	76.70	79.25	13.75	29.0	6.0	5	22	43.0	62	M130 x 2.0	6 x M16	139
2111-2219	82.0	76.70	79.25	13.75	29.0	6.0	5	22	43.0	62	M130 x 2.0	3 x M10	139

## 3 JAW WEDGE TYPE THROUGH HOLE POWER CHUCK-WITH ADAPTOR

► 2111-6206~2111-6225

TAIWAN



### SPECIFICATIONS :

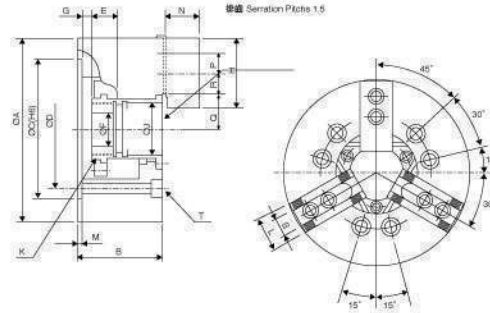
CODE No.	Mfg. No.	Through Hole (mm)	Jaw Stroke	Max. Pull Force	Max. Gripping Force	Max. Speed (r.p.m)	Weight (kg)	Matching Cylinder	Max. Operating Pressure	Moment on Inertia (Kgf.m <sup>2</sup> )	Matching Soft Jaw	Matching Hard Jaw
2111-6206	V-206A5	9.2 mm	20 mm	1835 Kgf	5253 Kgf	5000	13.2	MS105 MH100	25.5 kgf/cm <sup>2</sup>	0.045	HC06	HJ06
2111-6209	V-208A6	9.7 mm	21 mm	2549 Kgf	7648 Kgf	4500	25.0	MS125 MH125	25.5 kgf/cm <sup>2</sup>	0.137	HC08	HJ08
2111-6210	V-210A6	8.8 mm	25 mm	2957 Kgf	11013 Kgf	4000	40.5	MS125 MH125	28.6 kgf/cm <sup>2</sup>	0.300	HC10	HJ10
2111-6211	V-210A8	10.5 mm	25 mm	2957 Kgf	11013 Kgf	4000	37.5	MS125 MH125	28.6 kgf/cm <sup>2</sup>	0.300	HC10	HJ10
2111-6212	V-212A8	16.0 mm	30 mm	4181 Kgf	15907 Kgf	3300	62.5	MS150 MH150	27.5 kgf/cm <sup>2</sup>	0.725	HC12-1	HJ12-1
2111-6215	V-215A8	16.0 mm	35 mm	8362 Kgf	25391 Kgf	3000	115.0	MS150 MH150	32.6 kgf/cm <sup>2</sup>	1.800	HC15-1	HJ15-1
2111-6216	V-215A11	16.0 mm	35 mm	8362 Kgf	25391 Kgf	3000	108.0	MS200	32.6 kgf/cm <sup>2</sup>	1.800	HC15-1	HJ15-1
2111-6218	V-218A11	16.0 mm	35 mm	8362 Kgf	25391 Kgf	2700	141.0	MS200	32.6 kgf/cm <sup>2</sup>	2.500	HC15-1	HJ15-1
2111-6224	V-224A11	16.0 mm	35 mm	8362 Kgf	27838 Kgf	1760	239.0	MS200	32.6 kgf/cm <sup>2</sup>	7.400	HC24-1	HJ24-1
2111-6225	V-224A15	16.0 mm	35 mm	8362 Kgf	27838 Kgf	1760	232.0	MS200	32.6 kgf/cm <sup>2</sup>	7.000	HC24-1	HJ24-1

### DIMENSIONS :

CODE No.	A	B	C	F	K	L	M	N	P	T	V	U	E (max) (min)	G	H (max) (min)	I	J	O	Q (max) (min)	R	S	W	X
2111-6206	165	84	104.78	20	140	6-M10	5	14	21	15	82.563	116.00	15.25 9.25	4	89.6 69.6	36	M16x2.0	34	38.70 34.10	31	12.0	3-M6	48
2111-6208	210	103	104.78	25	170	6-M12	5	13	21	23	83.563	133.35	22.25 11.75	5	109.0 88.0	36	M20x2.5	38	46.75 41.90	35	14.0	6-M10	54
2111-6209	210	97	133.35	25	170	6-M12	5	18	25	17	106.375	150.00	22.25 11.75	5	115.0 94.0	36	M20x2.5	38	46.30 41.90	35	14.0	3-M6	54
2111-6210	254	109	133.35	30	220	6-M16	5	18	34	25	106.375	171.45	30.75 11.25	5	133.0 108.0	36	M20x2.5	45	51.10 46.70	40	16.0	6-M12	61
2111-6211	254	102	171.45	30	220	6-M16	5	25	34	18	139.719	190.00	30.75 11.25	5	140.0 115.0	36	M20x2.5	45	51.10 46.70	40	16.0	6-M8	61
2111-6212	304	118	171.45	30	220	6-M16	6	25	34	18	139.719	190.00	48.75 12.75	5	145.0 115.0	36	M20x2.5	50	61.00 55.75	50	18.0	6-M8	70
2111-6215	381	141	171.45	43	300	6-M20	6	24	-	33	139.719	235.00	50.25 23.25	2	71.0 36.0	55	M30x3.5	60	77.50 69.50	50	25.5	6-M16	78
2111-6216	381	130	235.00	43	300	6-M20	6	32	-	22	196.869	260.00	50.25 23.25	2	82.0 47.0	55	M30x3.5	60	77.50 69.50	50	25.5	3-M10	78
2111-6218	450	130	235.00	43	300	6-M20	6	32	-	22	196.869	260.00	50.25 23.25	2	70.0 35.0	55	M30x3.5	60	108.00 100.00	50	25.5	3-M10	78
2111-6224	610	146	235.00	60	380	6-M24	6	28	-	27	196.869	330.20	93.50 24.50	3	70.0 35.0	55	M30x3.5	60	125.00 117.00	65	25.0	6-M20	25
2111-6225	610	146	330.20	60	380	6-M24	6	34	-	27	285.775	330.20	93.50 24.50	3	70.0 35.0	55	M30x3.5	60	125.00 117.00	65	25.0	3-M12	78

## 3 JAW WEDGE TYPE THROUGH HOLE POWER CHUCK-WITHOUT ADAPTOR

▶ 2111-0205~2111-0218



TAIWAN

### SPECIFICATIONS :

CODE No.	Mfg. No.	Through Hole (mm)	Plunger Stroke	Jaw Stroke	Max. Draw Bar Pull Force	Max. Gripping Force	Max. Speed (r.p.m)	Weight (kgs)	Moment of Inertia (kgs)	Matching Cylinder	Matching Soft Jaw	Matching Hard Jaw
2111-0205	N-205	Ø33	10 mm	5.4 mm	1700 Kgf	3600 Kgf	7000	7.0	0.0175	M1036	HC05	HJ05
2111-0206	N-206	Ø45	12 mm	5.5 mm	2200 Kgf	5700 Kgf	6000	13.5	0.0570	M1246	HC06	HJ06
2111-0208	N-208	Ø52	16 mm	7.4 mm	3500 Kgf	8900 Kgf	4900	23.0	0.1700	M15522	HC08	HJ08
2111-0210	N-210	Ø75	19 mm	8.8 mm	4500 Kgf	11300 Kgf	4200	35.0	0.3150	M1875	HC10	HJ10
2111-0211	N-212	Ø91	23 mm	10.6 mm	5800 Kgf	15000 Kgf	3300	56.5	0.7370	M2091	HC12	HJ12
2111-0215	N-215	Ø117.5	23 mm	10.6 mm	7240 Kgf	18355 Kgf	2500	111.0	2.2700	M2511	HC15	HJ15
2111-0218	N-218	Ø117.5	23 mm	10.6 mm	7240 Kgf	18355 Kgf	2000	164.0	4.4500	M2511	HC15	HJ15

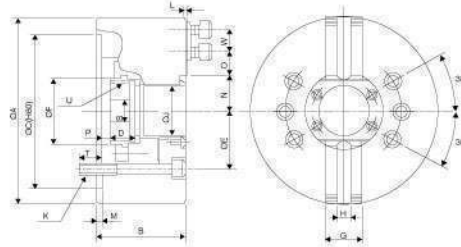
### DIMENSIONS :

Unit:mm

CODE No.	A	B	C (H6)	D	E	F	G (max)	G (min)	M	J	K (max)	L	H	N	P	Q (max)	Q (min)	R (max)	R (min)	S	T
2111-0205	135	60	110	82.55	20.0	12	1.0	-9.0	4	33	M40x1.5	23	54	26	14	26.5	23.80	19.75	7.75	10	3-M10x60
2111-0206	169	81	140	104.78	19.0	20	11.0	-1.0	5	45	M55x2	32	73	37	20	32.0	29.25	22.75	9.25	12	6-M10x80
2111-0208	210	91	170	133.35	20.5	30	14.5	-1.5	5	52	M60x2	37	95	38	25	38.7	35.00	29.75	14.75	14	6-M12x90
2111-0210	254	100	220	171.45	25.0	45	8.5	-10.5	5	75	M85x2	42	110	43	30	51.0	46.60	33.75	14.75	16	6-M16x100
2111-0211	304	110	220	171.45	28.0	50	8.0	-15.0	6	91	M100x2	52	130	51	30	61.3	56.00	45.75	15.75	21	6-M16x110
2111-0215	381	133	300	235.00	43.0	60	7.0	-16.0	6	117.5	M130x2	62	165	66	43	82.0	75.70	46.75	13.75	24	6-M20x135
2111-0218	450	133	300	235.00	43.0	60	7.0	-16.0	6	117.5	M130x2	62	165	66	43	82.0	76.70	79.25	13.75	24	6-M20x135

## 2 JAW WEDGE TYPE THROUGH HOLE POWER CHUCK-WITHOUT ADAPTOR

▶ 2111-1205~2111-1215



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### SPECIFICATIONS :

CODE No.	Mfg. No.	Through Hole (mm)	Plunger Stroke	Jaw Stroke	Max. Draw Bar Pull Force	Max. Gripping Force	Max. Speed (r.p.m)	Weight (kgs)	Matching Cylinder	Max. Operating Pressure	Matching Soft Jaw	Matching Hard Jaw
2111-1205	NT205	Ø33	10 mm	5.4 mm	1189 Kgf	2447 Kgf	7000	6.8	M1036	19.5 kgf/cm <sup>2</sup>	HC05	HJ05
2111-1206	NT206	Ø45	12 mm	5.5 mm	1400 Kgf	3875 Kgf	6000	12.8	M1246	18.9 kgf/cm <sup>2</sup>	HC06	HJ06
2111-1208	NT208	Ø52	16 mm	7.4 mm	2200 Kgf	5930 Kgf	4900	22.0	M1552	17.3 kgf/cm <sup>2</sup>	HC08	HJ08
2111-1210	NT210	Ø75	19 mm	8.8 mm	2900 Kgf	7546 Kgf	4200	34.0	M1875	18.4 kgf/cm <sup>2</sup>	HC10	HJ10
2111-1212	NT212	Ø91	23 mm	10.6 mm	3700 Kgf	9789 Kgf	3400	55.0	M2091	18.4 kgf/cm <sup>2</sup>	HC12	HJ12
2111-1215	NT215	Ø117.5	23 mm	10.6 mm	4793 Kgf	12236 Kgf	2500	106.0	M2511	15.3 kgf/cm <sup>2</sup>	HC15	HJ15

### DIMENSIONS :

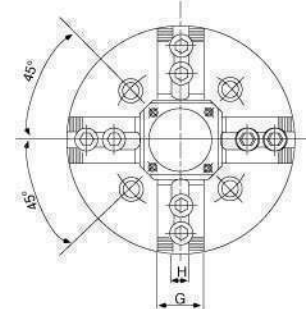
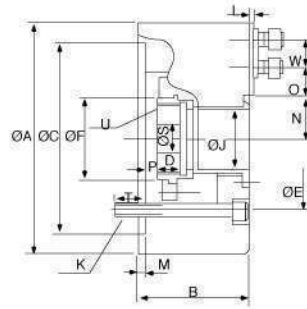
Unit:mm

CODE No.	A	B	C (H6)	D	E	M	G	H	J	K	L	F	N (max)	N (min)	O (max)	O (min)	P (max)	P (min)	S	T	U (max)	W
2111-1205	135	60	110	20.0	82.55	4	23	10	33.0	3-M10	2	45	26.5	23.80	19.75	7.75	1.0	-9.0	12	15.5	M40x1.5	14
2111-1206	169	81	140	19.0	104.78	5	32	12	45.0	6-M10	2	60	32.0	29.25	22.75	9.25	11.0	-1.0	20	16.0	M55x2	20
2111-1208	210	91	170	20.5	133.35	5	37	14	52.0	6-M12	2	66	38.7	35.00	29.75	14.75	14.5	-1.5	30	20.0	M60x2	25
2111-1210	254	100	220	25.0	171.45	5	42	16	75.0	6-M16	2	94	51.0	46.60	33.75	14.25	8.5	-10.5	45	22.0	M85x2	30
2111-1212	304	110	220	28.0	171.45	6	52	21	91.0	6-M16	2	108	61.3	56.00	45.75	15.75	8.0	-15.0	50	23.0	M100x2	30
2111-1215	381	133	300	43.0	235.00	6	62	24	117.5	6-M20	5	139	82.0	76.70	46.75	13.75	7.0	-16.0	60	30.0	M130x2	43

## 4 JAW WEDGE TYPE THROUGH HOLE POWER CHUCK-WITHOUT ADAPTOR

▶ 2172-2208~2172-2215

TAIWAN



### SPECIFICATIONS :

CODE No.	Mfg. No.	Through hole (mm)	Plunger Stroke	Jaw Stroke	Max. Draw Bar Pull Force	Max. Gripping Force	Max. Speed (r.p.m)	Weight (kgs)	Matching Cylinder	Max. Operating Pressure
2172-2208	NIT208	Ø52	16 mm	7.4 mm	2294 Kgf	5716 Kgf	4900	24	M1552	17.3 kgf/cm <sup>2</sup>
2172-2210	NIT210	Ø75	19 mm	8.8 mm	2906 Kgf	7546 Kgf	4200	36	M1875	18.4 kgf/cm <sup>2</sup>
2172-2212	NIT212	Ø91	23 mm	10.6 mm	3739 Kgf	9789 Kgf	3300	58	M2091	18.4 kgf/cm <sup>2</sup>
2172-2215	NIT215	Ø117.5	23 mm	10.6 mm	6828 Kgf	12236 Kgf	2500	114	M2511	15.3 kgf/cm <sup>2</sup>

### DIMENSIONS :

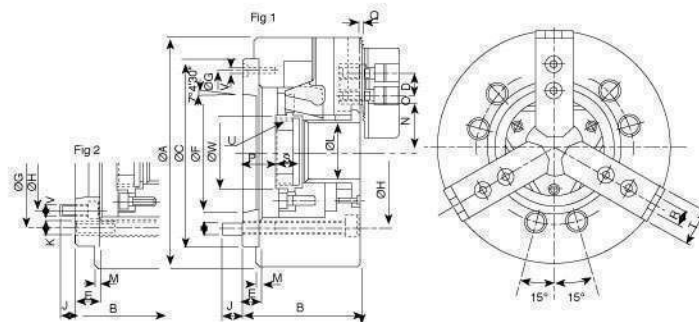
Unit:mm

CODE No.	A	B	C (H6)	S	J	M	H	G	E	K	T	W	N (max)	N (min)	O (max)	O (min)	P (max)	P (min)	D	U (max)	F	L
2172-2208	210	91	170	30	52	5	14	37	133.35	4-M12	20	25	38.7	35.0	29.75	14.75	14.5	1.5	23.5	M60 x 2	66	2
2172-2210	254	100	220	45	75.0	5	16	42	171.45	4-M16	22	30	51.0	46.6	33.75	14.25	8.5	-10.5	25.0	M85 x 2	94	2
2172-2212	304	110	220	50	91.0	6	21	52	171.45	4-M16	23	30	61.3	56.0	45.75	15.75	8.0	-15.0	28.0	M100 x 2	108	2
2172-2215	381	133	300	60	117.5	6	24	62	235.00	4-M20	30	43	82.0	76.7	46.75	13.75	7.0	-16.0	43.0	M130 x 2	139	5

## 3 JAW WEDGE TYPE EXTRA LARGE THROUGH HOLE POWER CHUCK-WITH ADAPTOR

▶ 2111-4206~2111-4210

TAIWAN



### SPECIFICATIONS :

CODE No.	Mfg. No.	Through Hole (mm)	Plunger Stroke	Jaw Stroke	Max. Draw Bar Pull Force	Max. Gripping Force	Max. Speed (r.p.m)	Weight (kgs)	Matching Cylinder	Max. Operating Pressure	Matching Soft Jaw	Matching Hard Jaw
2111-4206	NB-206A5	Ø52	13 mm	6.0 mm	2200 Kgf	5700 Kgf	6000	14.5	M1552	28.5 kgf/cm <sup>2</sup>	HC06	HJ06
2111-4210	NB-210A8	Ø78	19 mm	8.8 mm	4300 Kgf	11000 Kgf	4200	37.4	M1878	27.5 kgf/cm <sup>2</sup>	HC10	HJ10

### DIMENSIONS :

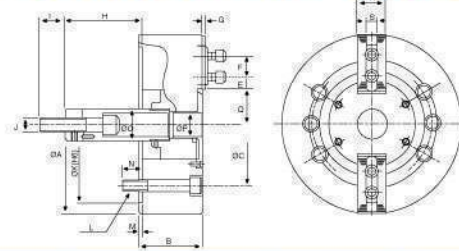
Unit:mm

CODE No.	A	B	G	D	E	F	C	H	M	J	N (max)	N (min)	O (max)	O (min)	P (max)	P (min)	Q	R	S	T	U (max)	V	W	K
2111-4206	170	97	116	20	22	82.563	140	104.78	16	5	37	31.5	18.25	9.25	30.0	17.0	2	12	16	32	M60 x 2.0	3 x M6	60	6 x M10
2111-4210	254	113	190	30	18	139.719	220	171.45	24	5	53	48.6	33.75	14.25	26.5	7.5	2	16	25	42	M87 x 2.0	6 x M8	94	6 x M16



## 2 JAW WEDGE TYPE THROUGH HOLE POWER CHUCKS-WITHOUT ADAPTOR

▶ 2000-0206~2000-0215



TAIWAN

### SPECIFICATIONS :

CODE No.	Mfg. No.	Plunger Stroke	Gripping Range		Max. Pull Force	Max. Gripping Force	Max. Speed (r.p.m)	Weight (kg)	Matching Cylinder	Max. Operating Pressure	Matching Soft Jaw	Matching Hard Jaw	JAW Stroke
			Max.	Min.									
2000-0206	VT206	20 mm	165	18	1224 Kgf	3550 Kgf	5200	12.0	MS105 MH100	17.3 kgf/cm <sup>2</sup>	HC06	HJ06	9.2
2000-0208	VT208	21 mm	210	12	1683 Kgf	5089 Kgf	4500	22.0	MS125 MH125	16.9 kgf/cm <sup>2</sup>	HC08	HJ08	9.7
2000-0210	VT210	25 mm	254	16	1988 Kgf	7342 Kgf	4000	33.5	MS125 MH125	19.4 kgf/cm <sup>2</sup>	HC10	HJ10	8.8
2000-0212	VT212	30 mm	304	18	2804 Kgf	10605 Kgf	3300	58.0	MS150 MH150	18.4 kgf/cm <sup>2</sup>	HC12-1	HJ12-1	10.5
2000-0215	VT215	35 mm	381	68	5557 Kgf	16927 Kgf	3000	100.6	MS200 MH200	21.7 kgf/cm <sup>2</sup>	HC15-1	HJ15-1	16

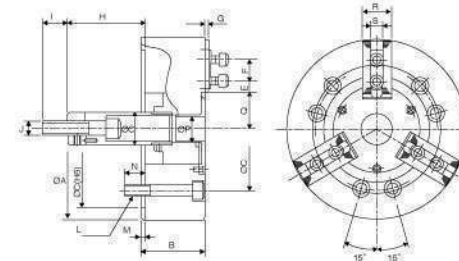
### DIMENSIONS :

Unit:mm

CODE No.	A	B	K (H6)	M	C	P	L	N	F	Q (max)	Q (min)	E (max)	E (min)	H (max)	H (min)	R	S	I	J	G	O
2000-0206	165	74	140	5	104.78	21	6-M10	14	20	38.70	34.10	15.25	9.25	106.5	86.5	31	12.0	36	M16 x 2.0	4	34
2000-0208	210	85	170	5	133.35	25	6-M12	20	25	46.75	41.90	22.25	11.75	132.0	111.0	35	14.0	36	M20 x 2.5	5	38
2000-0210	254	89	220	5	171.45	34	6-M16	18	30	51.10	46.70	30.75	11.25	163.0	138.0	40	16.0	36	M20 x 2.5	5	45
2000-0212	301	106	220	6	171.45	34	6-M16	22	30	61.00	55.75	48.75	12.75	168.0	138.0	50	18.0	36	M20 x 2.5	5	50
2000-0215	381	114	300	6	235.00	34	6-M20	29	43	77.50	69.50	50.25	23.25	104.0	69.0	50	25.5	55	M30 x 3.5	2	60

## 3 JAW WEDGE TYPE NON THROUGH HOLE POWER CHUCK-WITHOUT ADAPTOR

▶ 2111-5206~2111-5224



TAIWAN

### SPECIFICATIONS :

CODE No.	Mfg. No.	Through Hole (mm)	Plunger Stroke	Gripping Range		Max. Pull Force	Max. Gripping Force	Max. Speed (r.p.m)	Weight (kgs)	Matching Cylinder	Max. Operating Pressure	Matching Soft Jaw	Matching Hard Jaw
2111-5206	V-206	9.2	20 mm	165	18	1835 Kgf	5253 Kgf	5200	12.0	MS105 MH100	26.5 kgf/cm <sup>2</sup>	HC06	HJ06
2111-5208	V-208	9.7	21 mm	210	12	2549 Kgf	7648 Kgf	4500	23.0	MS125 MH125	25.5 kgf/cm <sup>2</sup>	HC08	HJ08
2111-5210	V-210	8.8	25 mm	254	16	2957 Kgf	11013 Kgf	4000	34.5	MS125 MH125	28.6 kgf/cm <sup>2</sup>	HC10	HJ10
2111-5212	V-212	10.5	30 mm	304	18	4181 Kgf	15907 Kgf	3300	59.5	MS125 MH150	27.5 kgf/cm <sup>2</sup>	HC12-1	HJ12-1
2111-5215	V-215	16.0	35 mm	381	68	8362 Kgf	25391 Kgf	3000	101.0	MS200	32.6 kgf/cm <sup>2</sup>	HC15-1	HJ15-1
2111-5218	V-218	16.0	35 mm	450	130	8362 Kgf	25391 Kgf	2700	134.0	MS200	32.6 kgf/cm <sup>2</sup>	HC15-1	HJ15-1
2111-5224	V-224	16.0	35 mm	573	138	8362 Kgf	27838 Kgf	1760	220.0	MS200	32.6 kgf/cm <sup>2</sup>	HC24-1	HJ24-1

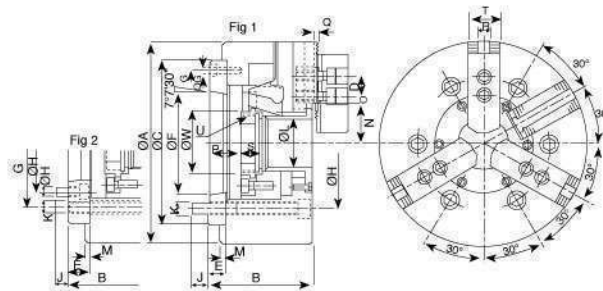
### DIMENSIONS :

Unit:mm

CODE No.	A	B	K (H6)	M	C	P	L	N	F	Q (max)	Q (min)	E (max)	E (min)	H (max)	H (min)	R	S	I	J	G	O
2111-5206	165	74	140	5	104.78	21	6-M10	14	20	38.70	34.10	15.25	9.25	104.6	84.6	31	12.0	36	M16 x 2.0	4	34
2111-5208	210	85	170	5	133.35	25	6-M12	20	25	46.75	41.90	22.25	11.75	132.0	111.0	35	14.0	36	M20 x 2.5	5	38
2111-5210	254	89	220	5	171.45	34	6-M16	18	30	51.10	46.70	30.75	11.25	158.0	133.0	40	16.0	36	M20 x 2.5	5	45
2111-5212	304	106	220	6	171.45	34	6-M16	22	30	61.00	55.75	48.75	12.75	163.0	133.0	50	18.0	36	M20 x 2.5	5	50
2111-5215	381	114	300	6	235.00	-	6-M20	29	43	77.50	69.50	50.25	23.25	104.0	69.0	50	25.5	55	M30 x 3.5	2	60
2111-5218	450	114	300	6	235.00	-	6-M20	29	43	108.00	100.00	50.25	23.23	92.0	57.0	50	25.5	55	M30 x 3.5	2	60
2111-5224	610	125	300	6	330.20	-	6-M24	31	60	125.00	117.00	93.50	24.50	97.0	62.0	65	25.0	55	M30 x 3.5	3	60

## 2 JAW AND 3 JAW THROUGH HOLE POWER CHUCKS-WITH ADAPTOR

▶ 2069-0208~2069-0209



TAIWAN

### SPECIFICATIONS :

CODE No.	Mfg. No.	Through hole (mm)	Plunger Stroke	Jaw Stroke	Max. Draw Bar Pull Force		Max. Speed (r.p.m)	Max. gripping force(Kgf)		Weight (kg)	Max. Operating Pressure		Matching Cylinder	Spindle Tope
					3JAW	2JAW		2JAW	3JAW		2JAW	3JAW		
2069-0208	NHT208A6	52	16	7.4 mm	2950	1924	4800	4533	6800	22.7	23	15	M1552	A2-6
2069-0209	NHT208A5													A2-5

### DIMENSIONS :

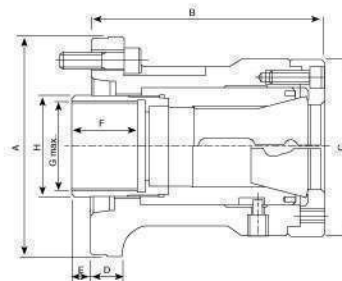
Unit:mm

CODE No.	A	B	C	D	E	F	G	H	J	K	L	M
2069-0208	210	107	170	20	17	106.375	150.00	133.35	17	6 x M12	52	5
2069-0209	210	113	170	20	23	82.563	133.35	104.78	13	6 x M12	52	5

CODE No.	N (max)	N (min)	O (max)	O (min)	P (max)	P (min)	Q	R	S	T	U (max)	V	W
2069-0208	41.8	38.1	34	7.5	31.5	15.5	2	12	20.5	32	M60 x P2.0	3 x M6	66
2069-0209	41.8	38.1	34	7.5	31.5	15.5	2	12	20.5	32	M60 x P2.0	6 x M10	66

## COLLET CHUCK

▶ 2000-0042~2000-0043



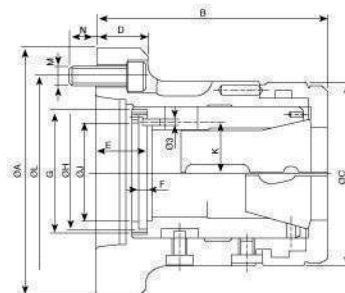
TAIWAN

### SPECIFICATIONS AND DIMENSIONS :

CODE No.	Mfg. No.	Matching Spindle	Bar Capacity (mm)	Sleeve Stroke (mm)	Weight (kg)	Max. Draw Bar Pull	Max. Gripping Force	Max. Speed (r.p.m.)	A	B	C	D	E (max)	E (min)	F	G (max)	H
2000-0042	CT42A5	A2-5	42	7	7.6	2200 kgf	4850 kgf	7100	135	143	108	20	1	-6	30	M55 x P2.0	62
2000-0043	CT42A6	A2-6	42	7	9.0	2200 kgf	4850 kgf	7100	170	140	108	30	12	5	30	M55 x P2.0	66

## COLLET CHUCK

▶ 2001-1042



TAIWAN

### SPECIFICATIONS :

CODE No.	Mfg. No.	Matching Spindle	Bar Capacity	Sleeve Stroke	Weight	Max. Draw Bar Pull	Max. Speed
2001-1042	CR42A5	A2-5	42 mm	7 mm	6.2 kg	2200 kgf	6000 rpm

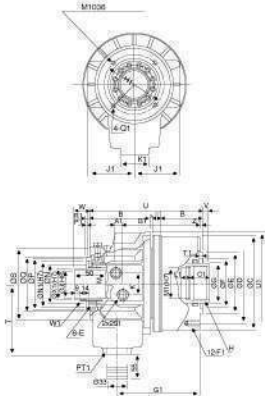
### DIMENSIONS :

Unit:mm

CODE No.	A	B	C	D	E (max)	E (min)	F	G (max)	H	J	K	L	M	N
2001-1042	135	124	100	27	30.5	23.5	4.5	M66 x P1.5	62.5	54	28	104.75	M10	14

## SUPER HIGH SPEED THROUGH HOLE ROTARY HYDRAULIC CYLINDER

► 2099-1036~2099-2511



### SPECIFICATIONS :

Unit:mm

CODE No.	Mfg. No.	Piston		Piston Area (cm <sup>2</sup> )	Piston Stroke (mm)	Max. Draw Bar Pull Force		Max. Speed (r.p.m.)	Moment of Inertia	Weight (kg)	Total Leakage (l/min)
		Diag. (mm)	Push Side			Pull Side	Push Side KN(kgf)				
2099-1036	M1036	105	71	68.5	15	24.8 (2529)	24 (2447)	8000	0.011 kgf/cm <sup>2</sup>	8.6	3.0
2099-1236	M1236	125	100	89.0	15	38.0 (3875)	33 (3365)	7000	0.019 kgf/cm <sup>2</sup>	13.0	3.0
2099-1246	M1246	125	100	89.0	15	38.0 (3875)	33 (3365)	7000	0.019 kgf/cm <sup>2</sup>	12.0	3.0
2099-1546	M1546	155	161	155.0	22	60.0 (6118)	56 (5710)	6200	0.052 kgf/cm <sup>2</sup>	18.0	3.9
2099-1552	M1552	155	161	150.0	22	60.0 (6118)	56 (5710)	6200	0.052 kgf/cm <sup>2</sup>	16.8	3.9
2099-1868	M1868	180	198	197.0	25	75.0 (7546)	69 (7036)	4700	0.095 kgf/cm <sup>2</sup>	28.0	4.2
2099-1870	M1870	180	198	183.0	25	75.0 (7546)	69 (7036)	4700	0.095 kgf/cm <sup>2</sup>	26.5	4.2
2099-1875	M1875	180	198	183.0	25	75.0 (7546)	69 (7036)	4700	0.095 kgf/cm <sup>2</sup>	26.0	4.2
2099-2085	M2085	205	252	234.0	30	94.0 (9585)	88 (8973)	3800	0.150 kgf/cm <sup>2</sup>	37.5	4.5
2099-2091	M2091	205	252	234.0	30	94.0 (9585)	88 (8973)	3800	0.150 kgf/cm <sup>2</sup>	37.0	4.5
2099-2511	M2511	205	348	336.0	23	124 (12644)	120 (12236)	2800	0.450 kgf/cm <sup>2</sup>	57.0	7.0

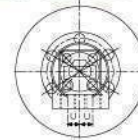
### DIMENSIONS :

CODE No.	C1	E1	F1	G1	H1	J1	K1	L1	M1	N1	O1	P1	Q1	R1	S1	T1	U1	W1	X1	B
2099-1036	25	M5 x 0.8	M10 x 1.5	126	88	68	53	15	38	64	14	4	M5 x 0.8	4	PT3/8"	6	136.0	M44 x 1.5	42.0	101
2099-1236	30	M6 x 1.0	M10 x 1.5	135	98	76	47	15	38	76	14	4	M5 x 0.8	6	PT1/2"	6	169.0	M52 x 1.5	50.0	99
2099-1246	30	M6 x 1.0	M10 x 1.5	135	98	76	47	15	50	76	14	4	M5 x 0.8	6	PT1/2"	6	169.0	M52 x 1.5	50.0	99
2099-1546	30	M6 x 1.0	M10 x 1.5	145	110	86	47	15	50	85	14	4	M6 x 1.0	7	PT1/2"	6	187.5	M58 x 1.5	56.0	103
2099-1552	30	M6 x 1.0	M10 x 1.5	145	110	86	47	15	55	85	14	4	M6 x 1.0	7	PT1/2"	6	187.5	M58 x 1.5	56.0	103
2099-1868	35	M6 x 1.0	M10 x 1.5	166	155	101	47	15	70	108	16	4	M6 x 1.0	7	PT1/2"	6	220.0	M84 x 2.0	81.0	126
2099-1870	35	M6 x 1.0	M10 x 1.5	166	155	101	47	15	75	108	16	4	M6 x 1.0	7	PT1/2"	6	220.0	M84 x 2.0	81.0	126
2099-1875	35	M6 x 1.0	M10 x 1.5	166	155	101	47	15	80	108	16	4	M6 x 1.0	7	PT1/2"	6	220.0	M84 x 2.0	81.0	126
2099-2085	35	M6 x 1.0	M10 x 1.5	166	155	101	47	20	89	108	16	4	M6 x 1.0	7	PT1/2"	6	220.0	M84 x 2.0	81.0	126
2099-2091	35	M6 x 1.0	M12 x 1.75	182	165	110	47	15	95	120	16	4	M6 x 1.0	7	PT1/2"	6	267.0	M99 x 2.0	96.0	141
2099-2511	45	M6 x 1.0	M16 x 2.0	197	206	129	55	20	123	160	18	5	M6 x 1.0	7	PT1/2"	6	294.0		134.6	186

CODE No.	C	D	E	F	G	H	J	K	L	N	P	Q	S	T	U	V (max)	V (min)	W (max)	W (min)	X	Z	A1	B1
2099-1036	136.0	115	100	65	48	M42 x 1.5	36.0	32	62	54	73	80	104	115	179.5	10	-5	39	24	2.5	5	11.0	120.5
2099-1236	154.5	130	100	80	65	M42 x 1.5	36.0	36	67	64	85	90	118	114	184.0	10	-5	40	25	4.0	5	11.0	126.5
2099-1246	154.5	130	100	80	65	M55 x 2.0	46.0	36	67	64	85	90	118	114	184.0	10	-5	40	25	4.0	5	11.0	126.5
2099-1546	190.0	170	130	85	65	M55 x 2.0	46.0	36	75	73	96	102	137	130	196.0	17	-5	47	25	4.0	5	11.0	136.0
2099-1552	190.0	170	130	85	70	M60 x 2.0	52.0	36	75	73	96	102	137	130	196.0	17	-5	47	25	4.0	5	11.0	136.0
2099-1868	215.0	190	160	120	85	M75 x 2.0	68.0	36	84	98	121	131	166	160	230.0	20	-5	50	25	4.0	5	17.5	152.5
2099-1870	215.0	190	160	120	95	M78 x 2.0	70.0	36	84	98	121	131	166	160	230.0	20	-5	50	25	4.0	5	17.5	152.5
2099-1875	215.0	190	160	120	95	M85 x 2.0	75.0	36	84	98	121	131	166	160	230.0	20	-5	50	25	4.0	5	17.5	152.5
2099-2085	215.0	190	160	120	110	M93 x 2.0	85.0	36	84	98	121	131	166	160	230.0	20	-5	50	25	4.0	5	17.5	152.5
2099-2091	240.0	215	180	140	110	M100 x 2	91.0	36	93	108	138	148	182	185	253.0	25	-5	55	25	3.0	5	21.0	166.5
2099-2511	310.0	275	230	166	140	M130 x 2	117.5	36	89	148	178		232	215	296.0	18	-5	38	15	3.0	6	27.0	184.5

## NON THROUGH HOLE ROTARY HYDRAULIC CYLINDER

► 2099-2080~2099-2150



### SPECIFICATIONS :

CODE No.	Mfg. No.	Piston Area		Max. Draw Bar Pull Pull Side KN(kgf)	Piston Stroke (mm)	Max. Speed (r.p.m.)	Max. Operating Pressure	Moment of Inertia	Weight
		Push Side (cm <sup>2</sup> )	Pull Side (cm <sup>2</sup> )						
2099-2080	MH80	47.7	42.8	13.9 (1417)	15	6000	35 kgf/cm <sup>2</sup>	0.0050 kgf/cm <sup>2</sup>	5.1 kg
2099-2100	MH100	75.4	70.5	22.9 (2335)	20	5500	35 kgf/cm <sup>2</sup>	0.0125 kgf/cm <sup>2</sup>	6.6 kg
2099-2125	MH125	121.1	114.0	37.0 (3773)	25	5500	35 kgf/cm <sup>2</sup>	0.0200 kgf/cm <sup>2</sup>	8.4 kg
2099-2150	MH150	176.0	160.0	60.0 (6118)	30	4000	40 kgf/cm <sup>2</sup>	0.0470 kgf/cm <sup>2</sup>	10.4 kg

### DIMENSIONS :

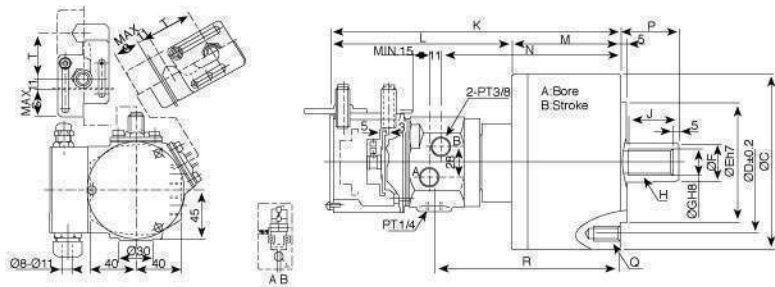
Unit:mm

CODE No.	A I.D	B	D	E (H7)	F	G (max)	G (min)	H	J	K	L	M	N1	N2	P	Q	R	T	U
2099-2080	80	115	90	65	25	45	30	6	73.5	103	M8 x 1.25 x 16	M16 x 2.0 x 32	3/8"	1/4"	45	15.5	30.5	38	13
2099-2100	100	135	100	80	25	45	25	6	88.5	103	M10 x 1.5 x 19	M16 x 2.0 x 32	3/8"	1/4"	45	15.5	30.5	38	13
2099-2125	125	160	130	110	30	51	26	6	95.5	103	M12 x 1.75 x 19	M20 x 2.5 x 32	3/8"	1/4"	45	15.5	30.5	38	13
2099-2150	150	190	130	110	45	50	20	6	107.0	103	M12 x 1.75 x 20	M30 x 3.5 x 35	3/8"	1/4"	45	15.5	30.5	38	13

## NON THROUGH HOLE ROTARY HYDRAULIC CYLINDER-WITH VALVES AND SWITCHES

► 2099-1105~2099-1200

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### SPECIFICATIONS :

CODE No.	Mfg. No.	Piston Area		Max.Draw Bar Pull Pull Side KN(kgf)	Piston Stroke (mm)	Max. Speed (r.p.m.)	Max.Operating Pressure (kgf/cm <sup>2</sup> )	Total Leakage (l/min)	Moment Inertia (kgf/cm <sup>2</sup> )	Weight (kg)
		Push Side (cm <sup>2</sup> )	Pull Side (cm <sup>2</sup> )							
2099-1105	MS105C	84	79	29 (2957)	20	6000	4.0 (40.8)	0.8	0.0125	7.6
2099-1125	MS125C	120	113	42 (4283)	25	6000	4.0 (40.8)	0.8	0.0220	10.5
2099-1126	MF125C	120	113	42 (4283)	35	6000	4.0 (40.8)	0.8	0.0220	10.5
2099-1150	MS150C	174	160	60 (6118)	30	5500	4.0 (40.8)	0.8	0.0470	14.0
2099-1200	MS200C	312	290	108 (11013)	35	5500	4.0 (40.8)	0.8	0.0970	22.5

### DIMENSIONS :

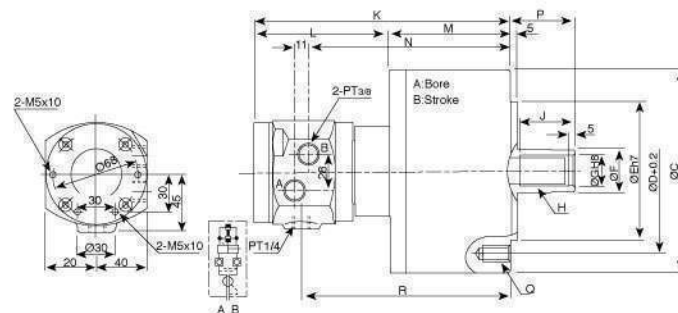
Unit:mm

CODE No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P (max)	P (min)	Q	R	S	T
2099-1105	105	20	135	100	80	30	21	M20 x 2.5	35	252	163	89	152	45	25	6-M10 x 20	158	23	41
2099-1125	125	25	160	130	110	35	25	M24 x 3.0	44	260	163	97	160	51	26	6-M12 x 24	166	23	41
2099-1126	125	35	160	130	110	35	25	M24 x 3.0	44	267	168	101	164	57	22	6-M12 x 24	170	23	46
2099-1150	150	30	190	130	110	45	31	M30 x 3.5	45	269	163	106	169	56	26	12-M12 x 24	175	23	41
2099-1200	200	35	245	145	120	55	37	M36 x 4.0	60	288	166	122	183	69	34	12-M16 x 30	189	28	46

## NON THROUGH HOLE ROTARY HYDRAULIC CYLINDER-WITH VALVES

► 2099-0105~2099-0200

TAIWAN



### SPECIFICATIONS :

CODE No.	Mfg. No.	Piston Area		Max.Draw Bar Pull Pull Side KN(kgf)	Piston Stroke (mm)	Max. Speed (r.p.m.)	Max.Operating Pressure (kgf/cm <sup>2</sup> )	Total Leakage (l/min)	Moment Inertia (kgf/cm <sup>2</sup> )	Weight (kg)
		Push Side (cm <sup>2</sup> )	Pull Side (cm <sup>2</sup> )							
2099-0105	MS105	86	79	29 (2957)	20	6000	4.0 (40.8)	0.8	0.0125	7.1
2099-0125	MS125	122	113	42 (4283)	25	6000	4.0 (40.8)	0.8	0.0220	10.0
2099-0150	MS150	176	160	60 (6118)	30	5500	4.0 (40.8)	0.8	0.0470	13.5
2099-0200	MS200	314	290	108 (11013)	35	5500	4.0 (40.8)	0.8	0.0970	22.0

### DIMENSIONS :

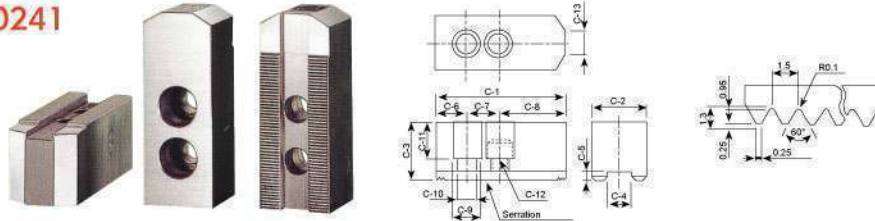
Unit:mm

CODE No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P (max)	P (min)	Q	R
2099-0105	105	20	135	100	80	30	21	M20 x 2.5	35	197	108	89	152	45	25	6-M10 x 20	158
2099-0125	125	25	160	130	110	35	25	M24 x 3.0	44	205	108	97	160	51	26	6-M12 x 24	166
2099-0150	150	30	190	130	110	45	31	M30 x 3.5	45	214	108	106	169	56	26	12-M12 x 24	175
2099-0200	200	35	245	145	120	55	37	M36 x 4.0	60	228	108	122	183	69	34	12-M16 x 30	189

## SOFT JAWS FOR POWER CHUCKS

TAIWAN

▶ 2091-0015~2091-0241



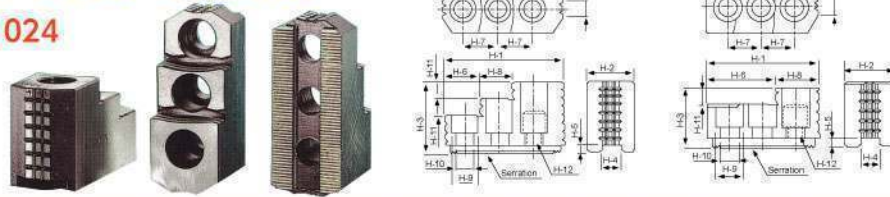
### DIMENSIONS:

CODE No.	Mfg. No.	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	Serration Pitch	Matching Chuck	3 Jaw Weight
2091-0015	HC-05	62	25	30	10	4	9	14	39	13.5	8.5	21	M8	5	1.5 x 60°	N-205	0.70 kg
2091-0016	HC-06	73	32	36	12	6	15	20	38	17	11	23	M10	14	1.5 x 60°	N-206.V-206	1.50 kg
2091-0018	HC-08	95	35	37	14	6	24	25	46	19	13	22	M12	16	1.5 x 60°	N-208.V-208	2.40 kg
2091-0110	HC-10	110	40	42	16	6	30	30	50	19	13	27	M12	18	1.5 x 60°	N-210.V-210	3.70 kg
2091-0112	HC-12	130	50	50	21	4	39	30	60	25	17	30	M16	18	1.5 x 60°	N-212	6.20 kg
2091-0115	HC-15	165	62	62	22	8	37	43	85	32	21	38	M20	-	1.5 x 60°	N-215	12.80 kg
2091-0121	HC-12-1	130	50	50	18	5	39	30	60	23	15	30	M14	18	1.5 x 60°	N-212	6.25 kg
2091-0151	HC-15-1	135	50	60	25.5	5	26	43	66	32	21	39	M20	-	1.5 x 60°	N-215	7.50 kg
2091-0241	HC-24-1	180	65	70	25	9	40	60	80	32	21	45	M20	-	3.0 x 60°	N-224	16.00 kg

## HARD JAWS FOR POWER CHUCKS

TAIWAN

▶ 2092-1005~2092-1024



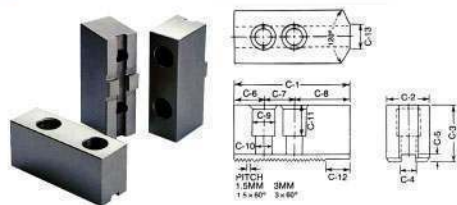
### DIMENSIONS:

CODE No.	Mfg. No.	H-1	H-2	H-3	H-4	H-5	H-6	H-7	H-8	H-9	H-10	H-11	H-12	H-13	Serration Pitch	Matching Chuck	3 Jaw Weight
2092-1005	HJ-05	53	23	27.5	10	4	30.5	14	22.5	13.5	8.5	10	M8	6	1.5 x 60°	N-205	0.40 kg
2092-1006	HJ-06	67	31	36	12	5	39.5	20	27.5	17.0	11.0	10	M10	11	1.5 x 60°	N-206.V-206	1.00 kg
2092-1008	HJ-08	86	35	51	14	5	31.0	25	18.0	19.0	13.0	12	M12	12	1.5 x 60°	N-208.V-208	1.90 kg
2092-1010	HJ-10	99.5	40	54	16	5	43.0	30	17.0	19.0	13.0	13	M12	15	1.5 x 60°	N-210.V-210	2.90 kg
2092-1012	HJ-12	103	50	52	21	4	62.5	30	40.5	25.0	17.0	17	M16	30	1.5 x 60°	N-212	2.65 kg
2092-1013	HJ-12-1	103	50	52	18	5	62.5	30	40.5	22.0	15.0	17	M14	30	1.5 x 60°	N-215	2.70 kg
2092-1015	HJ-15	149	62	86	22	8	63.0	43	34.0	32.0	21.0	20	M20	40	1.5 x 60°	N-212	9.60 kg
2092-1016	HJ-15-1	149	62	86	25.5	5	63.0	43	34.0	32.0	21.0	20	M20	40	1.5 x 60°	N-215	9.50 kg
2092-1024	HJ-24-1	159.5	80	90	25	9	104.5	50	55.0	32.0	21.0	40	M20	55	3.0 x 60°	N-224	14.50 kg

## SERRATED SOFT JAW

TAIWAN

▶ 2091-0006~2091-0015



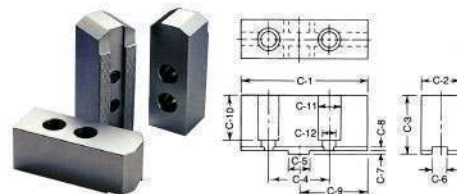
### DIMENSIONS:

CODE No.	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	Pitch
2091-0006	73	31	36	12	5	15	20	38	17	11	23	-	14	1.5 3
2091-0008	95	35	37	14	5	24	25	46	19	13	20	-	16	1.5 3
2091-0010	110	40	42	16	5	30	30	50	19	13	26	20	18	1.5 3
2091-0012	129	49	49	18	6	39	30	60	23	16	30	30	20	1.5 3
2091-0015	165	62	62	22	8	37	43	85	32	21	38	50	-	1.5 3

## TONGUED AND GROOVED JAW

TAIWAN

▶ 2091-0006~2091-0015



### DIMENSIONS:

CODE No.	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12
2091-0006	75	26	37	38.1	12.68	7.94	3	3.5	37.5	29	15	9
2091-0008	95	31	48	44.45	12.68	7.94	3	3.5	47.5	35	17	11
2091-0010	110	37	48	54	19.03	12.7	3	3.5	55	34	19	13
2091-0012	110	37	48	54	19.03	12.7	3	3.5	55	34	19	13
2091-0015	125	40	49	63.5	19.03	12.7	3	3.5	62.5	35	19	13

## 3 JAW SCROLL CHUCKS-PLAIN BACK

TAIWAN

▶ 2100-3003~2100-3016



- With two sets of solid Jaw (one set each for internal and external clamping)
- The body made of Meehanite.
- Gripping accuracy less than T.I.R - 0.03 mm (0.012")

CODE No.	Mfg. No.	Size	I.D.	Gripping range		Net weight
				O.D.	I.D.	
2100-3003	SC-3	85 mm (3")	16 mm	2-70 mm	24-64 mm	1.70 Kgs
2100-3004	SC-4	112 mm (4")	24 mm	3-90 mm	32-80 mm	3.70 Kgs
2100-3005	SC-5	130 mm (5")	32 mm	3-110 mm	35-100 mm	5.20 Kgs
2100-3006	SC-6	165 mm (6")	45 mm	3-160 mm	48-150 mm	9.30 Kgs
2100-3007	SC-7	192 mm (7")	58 mm	4-180 mm	45-170 mm	14.20 Kgs
2100-3008	SC-8	200 mm (8")	58 mm	4-180 mm	56-170 mm	16.00 Kgs
2100-3009	SC-9	232 mm (9")	70 mm	5-220 mm	62-210 mm	22.70 Kgs
2100-3010	SC-10	273 mm (10")	87 mm	6-260 mm	70-250 mm	31.80 Kgs
2100-3012	SC-12	310 mm (12")	105 mm	10-330 mm	86-290 mm	44.80 Kgs
2100-3016	SC-16	405 mm (16")	145 mm	14-400 mm	100-300 mm	102.00 Kgs

## 3 JAW SCROLL CHUCKS-PLAIN BACK

TAIWAN

▶ 2011-3106~2100-3116



- With two piece top reverse Jaw
- The body made of Meehanite.
- Gripping accuracy less than T.I.R - 0.03 mm (0.012")

CODE No.	Mfg. No.	Size	I.D.	Gripping range		Max speed rpm	Net weight
				O.D.	I.D.		
2011-3106	SK-6	165 mm (6")	45 mm	5-150 mm	3-160 mm	4000	9.0 Kgs
2100-3107	SK-7	192 mm (7")	58 mm	62-170 mm	8-180 mm	3500	13.8 Kgs
2100-3108	SK-8	200 mm (8")	58 mm	62-170 mm	8-180 mm	3200	15.5 Kgs
2100-3109	SK-9	232 mm (9")	70 mm	70-210 mm	11-220 mm	2900	22.0 Kgs
2100-3110	SK-10	273 mm (10")	87 mm	80-250 mm	12-260 mm	2500	29.7 Kgs
2100-3112	SK-12	310 mm (12")	105 mm	90-290 mm	15-300 mm	2200	43.5 Kgs
2100-3115	SK-15	381 mm (15")	128 mm	110-310 mm	25-20 mm	1500	69.0 Kgs
2100-3116	SK-16	405 mm (18")	145 mm	110-380 mm	30-400 mm	1500	98.0 Kgs

## 4 JAW SCROLL CHUCKS-PLAIN BACK

TAIWAN

▶ 2012-4007~2012-4016



- With two set of solid JAW (One set each for internal and external)
- The body made of Meehanite.

CODE No.	Mfg. No.	Size	I.D.	Gripping range		Max speed rpm	Net weight
				O.D.	I.D.		
2012-4007	SIC-7	192 mm (7")	58 mm	4-180 mm	56-170 mm	3500	14.8 Kgs
2012-4009	SIC-9	232 mm (9")	70 mm	5-220 mm	62-210 mm	2900	23.2 Kgs
2012-4012	SIC12	310 mm (12")	105 mm	10-300 mm	86-290 mm	2200	47.0 Kgs
2012-4016	SIC-16	405 mm (16")	145 mm	14-400 mm	100-380 mm	1500	107.0 Kgs

## 6 JAW SCROLL CHUCKS-PLAIN BACK

TAIWAN

▶ 2334-1001~2334-1003



- Specially designed for tool cutter and grinder for grinding drill, end mill, and others.

CODE No.	Mfg. No.	Size	I.D.	Gripping O.D	Max Speed	Net Weight
2334-1001	SE-4	112 mm (4")	32 mm	2-32 mm	2500 rpm	4 Kgs
2334-1002	SE-6	165 mm (6")	51 mm	3-51 mm	2000 rpm	9 Kgs
2334-1003	SE-7	192 mm (7")	80 mm	3-81 mm	2000 rpm	14 Kgs

## SUPER THIN 3 JAW SCROLL CHUCKS

TAIWAN

▶ 2011-T170~2011-T305



- With top reverse JAW.
- The high tolerance < 0.03mm (0.0012")
- The re-positioning accuracy < 0.002mm (0.0008")

CODE No.	Mfg. No.	Chuck Size	Base Size	Slots Size	Total Height	Net Weight
2011-T170	NBK-6	170 mm	220 mm	13 mm x 4	58+40 mm	11.0 Kgs
2011-T210	NBK-8	210 mm	270 mm	13 mm x 4	64+45 mm	19.5 Kgs
2011-T255	NBK-10	255 mm	315 mm	16 mm x 4	73+52 mm	29.5 Kgs
2011-T305	NBK-12	305 mm	370 mm	18 mm x 4	80+599 mm	42.5 Kgs

## SUPER THIN SQUARE TYPE 4 JAW INDEPENDENT CHUCKS

TAIWAN

▶ 2072-T215~2072-T380



- With top reverse JAWS
- The repositioning accuracy < 0.02mm (0.008")
- Parallelism accuracy of hard JAW holding < 0.03mm (0.0012")
- The high tolerance < 0.03mm (0.0012")

CODE No.	Mfg. No.	Base Size	T-Slot Size	Jaw Height	Total Height	Max. Gripping	Net Weight
2072-T215	MCA-6	215 x 165	18 mm x 4	68 mm	57+39 mm	130 mm (5")	13 Kgs
2072-T250	MCA-8	250 x 200	18 mm x 4	72 mm	65+43 mm	160 mm (6")	21 Kgs
2072-T310	MCA-10	310 x 250	18 mm x 4	93 mm	72+50 mm	200 mm (8")	35 Kgs
2072-T380	MCA-12	380 x 310	22 mm x 4	117 mm	85+56 mm	260 mm (10")	61 Kgs



## 6 JAW SCROLL CHUCK-FOR TOOL GRINDER-PLAIN BACK

CHINA

▶ 2013-1001~2013-1601



- Specially designed for tool cutter and grinder for grinding drill, end mill, and others

CODE No.	Mfg. No.	Size	I.D.	Gripping Cap.	Max. Speed	Net Weight
2013-1001	K13-100	112 mm (4")	32 mm	2-32 mm	2500 rpm	4 Kgs
2013-1601	K13-160	168 mm (6")	60 mm	3-51 mm	2000 rpm	9 Kgs



## 3 JAW SCROLL CHUCKS-PLAIN BACK

▶ 2011-0801~2011-3805

CHINA



- The chucks body made of semi-steel, Jaws made of hardened steel.
- The chucks with two sets hard solid jaws (Inside and outside)

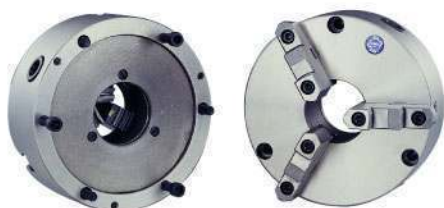
CODE No.	Size	Bore	External Jaw		Internal	Net Weight	Z-d
			Clamping	Jamming	Clamping		
2011-0801	80 mm (3")	16 mm	2-22 mm	25-70 mm	22-63 mm	2.27 Kgs	3-M6
2011-1001	100 mm (4")	22 mm	2-30 mm	30-90 mm	30-80 mm	3.63 Kgs	3-M8
2011-1251	125 mm (5")	30 mm	3-40 mm	40-13 mm	40-115 mm	6.53 Kgs	3-M8
2011-1301	130 mm (5")	30 mm	3-40 mm	40-135 mm	40-120 mm	6.60 Kgs	3-M8
2011-1601	160 mm (6")	45 mm	3-55 mm	50-160 mm	55-145 mm	9.53 Kgs	3-M8
2011-1652	165 mm (6")	45 mm	3-55 mm	50-165 mm	55-150 mm	9.65 Kgs	3-M8
2011-1901	190 mm (7")	65 mm	4-85 mm	60-190 mm	65-190 mm	13.9 Kgs	3-M10
2011-2001	200 mm (8")	65 mm	4-85 mm	65-200 mm	65-200 mm	16.33 Kgs	3-M10
2011-2401	240 mm (9")	70 mm	7.5-100 mm	70-240 mm	92-250 mm	24.67 Kgs	3-M12
2011-2501	250 mm (10")	80 mm	6-109 mm	80-250 mm	100-315 mm	25.4 Kgs	3-M12
2011-3250	325 mm (13")	100 mm	10-140 mm	85-320 mm	195-352 mm	45 Kgs	3-M16
2011-3805	380 mm (15")	135 mm	11.5-220 mm	90-380 mm	195-480 mm	55.4 Kgs	3-M16



## 3 JAW SCROLL CHUCK-PLAIN BACK

▶ 2011-1654~2011-8001

CHINA



- The chucks body made of semi-steel, Jaws made of hardened steel.
- The chucks with two-piece reversible Jaws.

CODE No.	Size	Bore	External Jaw		Clamping	Net Weight	Z-d
			Clamping	Jamming			
2011-1654	160 mm (6")	40 mm	3-55 mm	50-160 mm	55-145 mm	9.63 Kgs	3-M8
2011-2002	200 mm (8")	65 mm	4-85 mm	65-200 mm	65-200 mm	17.70 Kgs	3-M10
2011-2504	250 mm (10")	80 mm	6-109 mm	80-250 mm	65-315 mm	25.4 Kgs	3-M12
2011-3251	325 mm (13")	100 mm	11.5-165 mm	90-325 mm	195-352 mm	45 Kgs	3-M16
2011-3201	320 mm (12")	100 mm	10-140 mm	85-320 mm	100-352 mm	45 Kgs	3-M16
2011-3800	380 mm (15")	130 mm	11.5-220 mm	90-380 mm	195-400 mm	55.4 Kgs	3-M16
2011-4001	400 mm (16")	130 mm	15-219 mm	120-400 mm	120-400 mm	58 Kgs	3-M16
2011-5001	500 mm (20")	230 mm	25-280 mm	150-500 mm	150-500 mm	145 Kgs	6-M16
2011-5002	500 mm (20")	200 mm	25-280 mm	150-500 mm	150-500 mm	145 Kgs	6-M16
2011-6303	630 mm (25")	260 mm	50-352 mm	190-630 mm	170-630 mm	250 Kgs	6-M16
2011-6307	630 mm (25")	305 mm	50-352 mm	190-630 mm	170-630 mm	250 Kgs	6-M16
2011-8001	800 mm (32")	385 mm	100-500 mm	200-800 mm	200-800 mm	410 Kgs	6-M24





## 3 JAW SCROLL CHUCK-DIRECT MOUNTING

▶ 2011-165~2011-8002

CHINA



- The chucks body made of semi-steel, with two-piece reversible Jaw.
- D1 or A1/A2 Mounting.

CODE No.	Size	Bore	External Jaw		External Jaw	Net Weight	Bolts
			Clamping	Jamming	Clamping		
2011-165	165 mm (6")	40 mm	3-55 mm	55-160 mm	55-145 mm	15.52 Kgs	3-M10
2011-200	200 mm (8")	65 mm	4-85 mm	65-190 mm	65-200 mm	21.32 Kgs	3-M12
2011-250	250 mm (10")	80 mm	6-109 mm	80-250 mm	100-315 mm	33.58 Kgs	3-M16
2011-325	325 mm (13")	100 mm	10-140 mm	95-315 mm	110-340 mm	64.42 Kgs	3-M16
2011-380	380 mm (15")	130 mm	11.5-210 mm	95-380 mm	110-400 mm	70.4 Kgs	3-M16
2011-400	400 mm (16")	130 mm	15-210 mm	120-400 mm	110-400 mm	74 Kgs	3-M16
2011-500	500 mm (20")	210 mm	25-280 mm	150-500 mm	150-500 mm	145.2 Kgs	3-M16
2011-510	500 mm (20")	260 mm	25-280 mm	150-500 mm	150-500 mm	145.2 Kgs	3-M16
2011-520	500 mm (20")	305 mm	25-280 mm	150-500 mm	150-500 mm	145.2 Kgs	3-M16
2011-630	630 mm (25")	305 mm	50-352 mm	170-630 mm	170-630 mm	250 Kgs	3-M16
2011-8002	800 mm (32")	385 mm	100-500 mm	200-800 mm	200-800 mm	410 Kgs	6-M24

• Please specify the size for D1 and A1/A2 when ordering.



## 4 JAW SCROLL CHUCK-PLAIN BACK

▶ 2012-0801~2012-6301

▶ 2012-0801A~2012-6301A

CHINA



- Chucks made of spherical graphite cast iron.
- 2 set of hand solid jaws (inside and outside) or Two piece reversible Jaws - Please add "A" when you order.

CODE No.	Size	Bore	Clamping	Jamming	Net Weight	Bolts
2012-0801	80 mm (3")	16 mm (0.6")	3-40 mm	15-80 mm	2.27 kgs	3-M6
2012-1000	100 mm (4")	22 mm (0.85")	4-50 mm	20-100 mm	3.63 kgs	3-M8
2012-1251	125 mm (5")	30 mm (1.2")	6-62 mm	35-125 mm	8.16 kgs	3-M8
2012-1301	130 mm (5")	30 mm (1.2")	6-65 mm	40-130 mm	8.23 kgs	3-M8
2012-1601	160 mm (6")	40 mm (1.6")	8-80 mm	50-160 mm	9.98 kgs	3-M8
2012-1651	165 mm (6")	40 mm (1.6")	8-80 mm	50-165 mm	10.00 kgs	3-M8
2012-2001	200 mm (8")	65 mm (2.6")	10-100 mm	63-200 mm	15.88 kgs	3-M10
2012-2501	250 mm (10")	80 mm (4")	15-130 mm	80-250 mm	23.15 kgs	3-M12
2012-3151	315 mm (12")	100 mm (4")	20-170 mm	100-315 mm	45.00 kgs	3-M16
2012-3201	320 mm (12")	100 mm (4")	20-170 mm	100-320 mm	46.00 kgs	3-M16
2012-3251	325 mm (13")	100 mm (4")	20-170 mm	100-320 mm	36.50 kgs	3-M16
2012-3801	380 mm (15")	130 mm (5")	12-210 mm	95-400 mm	60 kgs	3-M16
2012-4001	400 mm (16")	130 mm (5")	15-210 mm	120-400 mm	63 kgs	3-M16
2012-5001	500 mm (20")	200 mm (8")	25-280 mm	150-500 mm	137 kgs	6-M16
2012-6301	630 mm (25")	260 mm (10")	50-350 mm	170-630 mm	218 kgs	6-M16



## 4 JAW INDEPENDENT CHUCK-PLAIN BACK

▶ 2072-0801~2072-16001

CHINA



- Chucks body made of spherical cast iron.
- With 2 sets of hard solid jaws. (inside and outside)

CODE No.	Size	Bore	Clamping	Jamming	Net Weight	Z-d
2072-0801	80 mm (3")	22 mm	3-40 mm	15-80 mm	2.27 Kgs	4-M6
2072-1001	100 mm (4")	25 mm	4-50 mm	20-100 mm	3.63 Kgs	4-M8
2072-1251	125 mm (5")	30 mm	6-60 mm	35-125 mm	6.35 Kgs	4-M8
2072-1601	160 mm (6")	40 mm	8-80 mm	50-160 mm	9.98 Kgs	4-M10
2072-2001	200 mm (8")	50 mm	10-100 mm	63-200 mm	15.88 Kgs	4-M10
2072-2501	250 mm (10")	65 mm	15-130 mm	80-250 mm	23.14 Kgs	4-M12
2072-3002	300 mm (12")	75 mm	20-170 mm	100-320 mm	45.38 Kgs	4-M12
2072-3151	315 mm (12")	95 mm	20-175 mm	100-320 mm	45.5 Kgs	4-M16
2072-3201	320 mm (12")	95 mm	20-180 mm	100-320 mm	45.5 Kgs	4-M16
2072-3501	350 mm (14")	80 mm	20-200 mm	100-350 mm	47 Kgs	4-M16
2072-4001	400 mm (16")	125 mm	25-250 mm	120-323 mm	63 Kgs	4-M16
2072-4501	450 mm (18")	140 mm	30-275 mm	122-450 mm	72 Kgs	4-M16
2072-5001	500 mm (20")	160 mm	35-300 mm	125-500 mm	103 Kgs	4-M20
2072-6301	630 mm (25")	180 mm	45-380 mm	157-630 mm	159 Kgs	4-M20
2072-8001	800 mm (32")	210 mm	56-480 mm	200-700 mm	267 Kgs	8-M20
2072-10001	1000 mm (40")	305 mm	70-600 mm	250-1000 mm	465 Kgs	8-M20
2072-12502	1250 mm (50")	305 mm	90-750 mm	312-1250 mm	735 Kgs	8-M20
2072-14001	1400 mm (56")	305 mm	90-750 mm	312-1250 mm	735 Kgs	8-M20
2072-16001	1600 mm (60")	305 mm	90-750 mm	312-1250 mm	735 Kgs	8-M20



## 4 JAW INDEPENDENT CHUCK-DIRECT MOUNTING

▶ 2072-200~2072-16000

CHINA



- D1-CAMLOCK direct mounting.
- A1/A2 American short taper mounting.
- With 2 sets of solid Jaws. (inside and outside)

CODE No.	Size	Bore	Clamping	Jamming	Net Weight	Z-d
2072-200	200 mm (8")	45 mm	10-100 mm	63-200 mm	10 Kgs	4-M10
2072-250	250 mm (10")	56 mm	15-130 mm	80-250 mm	23.14 Kgs	4-M12
2072-300	300 mm (12")	95 mm	20-170 mm	100-320 mm	45.38 Kgs	4-M12
2072-320	320 mm (12")	95 mm	20-175 mm	100-320 mm	47 Kgs	4-M12
2072-350	350 mm (14")	95 mm	20-200 mm	100-350 mm	49 Kgs	4-M16
2072-400	400 mm (16")	125 mm	25-250 mm	122-400 mm	63 Kgs	4-M16
2072-500	500 mm (20")	160 mm	35-300 mm	125-500 mm	103 Kgs	4-M20
2072-630	630 mm (25")	180 mm	45-300 mm	157-630 mm	159 Kgs	4-M20
2072-800	800 mm (32")	180 mm	56-480 mm	200-800 mm	267 Kgs	8-M20
2072-1000	1000 mm (40")	280 mm	70-600 mm	250-1000 mm	46 Kgs	8-M20
2072-1250	1250 mm (50")	280 mm	90-750 mm	312-1250 mm	735 Kgs	8-M20
2072-1400	1400 mm (56")	280 mm	280-900 mm	420-1400 mm	760 Kgs	8-M20
2072-1401	1400 mm (56")	365 mm	285-900 mm	400-1400 mm	755 Kgs	8-M24
2072-1520	1520 mm (60")	305 mm	285-1050 mm	600-1500 mm	830 Kgs	8-M24
2072-16000	1600 mm (60")	305 mm	285-1100 mm	600-1600 mm	980 Kgs	8-M24

• Please specify the size for D1 and A1/A2 when ordering.



## 2 JAW SELF CENTERING CHUCK-WITH SOLID JAW-PLAIN BACK

▶ 2010-0080~2010-0315

CHINA



CODE No.	Size	Bore	Bolts	Net Weight
2010-0080	80 mm (3")	16 mm (.063")	3-M6	1.7 Kgs (3.75 Lbs)
2010-0100	100 mm (4")	22 mm (0.866")	3-M8	2.8 Kgs (6.17 Lbs)
2010-0125	125 mm (5")	30 mm (1.181")	3-M8	4.7 Kgs (10.35 Lbs)
2010-0160	160 mm (6")	40 mm (1.575")	3-M8	8 Kgs (17.6 Lbs)
2010-0165	165 mm (6")	40 mm (1.575")	3-M8	8 Kgs (17.6 Lbs)
2010-0200	200 mm (8")	65 mm (2.56")	3-M10	15 Kgs (33 Lbs)
2010-0250	250 mm (10")	80 mm (3.15")	3-M12	25 Kgs (55.1 Lbs)
2010-0315	315 mm (12")	100 mm (3.937")	3-M16	46 Kgs (101 Lbs)



## 2 JAW SELF CENTERING CHUCKS-WITH TOP REVERSE JAW-PLAIN BACK

▶ 2010-0081~2010-0316

CHINA



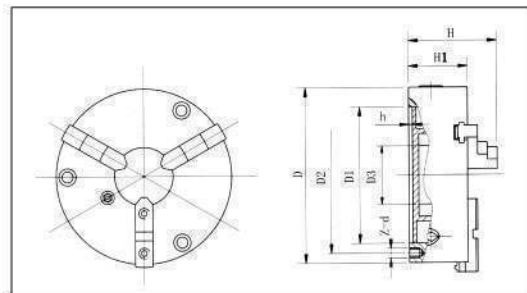
CODE No.	Size	Bore	Bolts	Net Weight
2010-0081	80 mm (3")	16 mm (.063")	3-M6	1.7 Kgs (3.75 Lbs)
2010-0101	100 mm (4")	22 mm (0.866")	3-M8	2.8 Kgs (6.17 Lbs)
2010-0126	125 mm (5")	30 mm (1.181")	3-M8	4.7 Kgs (10.35 Lbs)
2010-0161	160 mm (6")	40 mm (1.575")	3-M8	8 Kgs (17.6 Lbs)
2010-0166	165 mm (6")	40 mm (1.575")	3-M8	8 Kgs (17.6 Lbs)
2010-0201	200 mm (8")	65 mm (2.56")	3-M10	15 Kgs (33 Lbs)
2010-0251	250 mm (10")	80 mm (3.15")	3-M12	25 Kgs (55.1 Lbs)
2010-0316	315 mm (12")	100 mm (3.937")	3-M16	46 Kgs (101 Lbs)



## 3 JAW SCROLL CHUCKS-STEEL BODY WITH SOLID JAW-PLAIN BACK

▶ 2011-160S~2011-273S

CHINA



CODE No.	Size	Bore	Bolts	Max. Speed	Clamping Force	Clamping Range	
						O.D	I.D
2011-160S	160 mm (6.3")	45 mm (1.772")	3-M8	3820 rpm	24 KN	3-145 mm (0.12-5.71")	50-160 mm (1.97-6.3")
2011-200S	200 mm (7.874")	65 mm (2.56")	3-M10	3056 rpm	31 KN / 3161 kgf	4-200 mm (0.04-1.968")	65-200 mm (2.6-7.874")
2011-250S	250 mm (9.84")	80 mm (3.15")	3-M12	2500 rpm	37 KN / 3773 kgf	6-250 mm (0.236-9.842")	80-250 mm (3.15-9.842")
2011-315S	315 mm (12.4")	100 mm (3.937")	3-M16	1950 rpm	46 KN	10-315 mm (0.4-12.4")	95-315 mm (3.74-12.4")
2011-167S	152 mm (6")	45 mm (1.77")	3-M10	4000 rpm	31 KN / 3161 kgf	4-160 mm (0.1547-6.3")	48-150 mm (1.89-5.9")
2011-193S	178 mm (7")	58 mm (2.283")	3-M10	3500 rpm	31 KN / 3161 kgf	4-180 mm (0.1547-7.09")	56-170 mm (2.2-6.69")
2011-233S	229 mm (9")	70 mm (2.756")	3-M12	2900 rpm	37 KN / 3773 kgf	5-220 mm (0.197-8.267")	62-210 mm (2.44-8.267")
2011-273S	354 mm (10")	89 mm (3.5")	3-M12	2500 rpm	37 KN / 3773 kgf	10-315 mm (0.4-12.4")	70-250 mm (2.756-9.842")



## 3 JAW SELF INDEPENDENT SCROLL CHUCKS WITH MICRO-ADJUST SET-TRUE WITH 2 SET TOP REVERSIBLE JAW

CHINA

▶ 2031-1601~2031-3001



CODE No.	Size	Bore	O.D Clamping		I.D. Clamping		Net Weight	Max. Rpm
			Min	Max	Min	Max		
2031-1601	160 mm	38.6 mm	3.175 mm	152.4 mm	47.6 mm	146 mm	8.62 Kgs	3400
2031-1602	6"	1.52"	0.125"	6"	1.87"	5.75"	19 Lbs	3400
2031-2001	200 mm	57.4 mm	6.35 mm	210 mm	56.125 mm	171.45 mm	22.7 Kgs	3100
2031-2003	8"	2.257"	0.25"	8.25"	2.215"	6.75"	50 Lbs	3100
2031-2501	250 mm	71.4 mm	12.7 mm	237.7 mm	74.6 mm	221.43 mm	31.76 Kgs	2700
2031-2503	10"	2.81"	0.5"	9.36"	2.937"	8.718"	70 Lbs	2700
2031-3251	325 mm	83 mm	12.7 mm	287 mm	81.73 mm	257.18 mm	52.6 Kgs	2200
2031-3001	12"	3.257"	0.5"	11.312"	3.281"	10.125"	116 Lbs	2200



## 6 JAW SELF CENTERING SCROLL CHUCKS WITH MICRO-ADJUST SET-TRUE WITH 2 SET TOP REVERSIBLE JAWS

CHINA

▶ 2033-1601~2033-3001



CODE No.	Size	Bore	O.D Clamping		I.D. Clamping		Net Weight	Max. Rpm
			Min	Max	Min	Max		
2033-1601	6"	1.52"	0.5"	6"	1.875"	5.75"	22 Lbs	3400
2033-2001	8"	2.257"	0.5"	8.25"	2.215"	6.75"	53 Lbs	3100
2033-2501	10"	2.81"	0.5"	9.36"	2.937"	8.718"	72 Lbs	2700
2033-3001	12"	3.257"	0.5"	11.312"	3.281"	10.125"	146 Lbs	2200



## 3 JAW SCROLL CHUCKS-MANUAL LEVER TYPE

▶ 2011-0501~2011-1002

CHINA



CODE No.	Size	Bore	Bolts	Mounting	Clamping Range	
					O.D	I.D
2011-0501	50 mm (2")	12 mm (0.472")	3-M4	M14 x 1 (SM3/4" x 16)	1-48 mm (0.04-1.89")	15-48 mm (0.59-1.89")
2011-0651	65 mm (2.5")	14 mm (0.55")	3-M4	M14 x 1 (SM3/4" x 16)	1-50 mm (0.04-1.968")	16-50 mm (0.63-1.968")
2011-0802	80 mm (3")	16 mm (0.63")	3-M5	M16 x 1	1.5-70 mm (0.06-2.75")	20-70 mm (0.787-2.756")
2011-1002	100 mm (4")	22 mm (0.866")	3-M6	M24 x 1.5	2.90 mm (0.078-3.54")	26-90 mm (1-3.54")



## 3 JAW SCROLL CHUCKS-FRONT DUAL MOUNTING TYPE WITH 2 PC. REVERSE JAWS.-PLAIN BACK

▶ 2011-1650~2011-2500

CHINA



CODE No.	Size	Bore	External		External Clamping	Net Weight	Z-d
			Clamping	Jamming			
2011-1650	165 mm (6")	40 mm	4-60 mm	52-45 mm	55-150 mm	9.53 Kgs	3M8
2011-2004	200 mm (8")	65 mm	4-85 mm	65-200 mm	65-200 mm	17.70 Kgs	3M10
2011-2500	250 mm (10")	80 mm	6-110 mm	80-250 mm	90-250 mm	25.40 Kgs	3M12



## 4 JAW SELF CENTERING SCROLL AND INDEPENDENT COMBINATION CHUCK WITH ONE SET OF SOLID JAW

▶ 2062-1601~2062-3251

CHINA



CODE No.	Size	Bore	Clamping	Jamming	Net Weight
2062-1601	160 mm (6")	42 mm	8-80 mm	50-160 mm	11 Kgs
2062-2001	200 mm (8")	65 mm	10-100 mm	63-300 mm	17 Kgs
2062-2501	250 mm (10")	80 mm	13-130 mm	80-250 mm	25 Kgs
2062-3251	325 mm (13")	100 mm	20-170 mm	100-320 mm	47 Kgs

## BACKPLATES

▶ HK30871600~HK3087F9A3

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### ROUGH CASTING ADAPTER

CODE No.	Size
HK30871600	6" (160 mm)
HK30872000	8" (200 mm)
HK30872500	10" (250 mm)
HK30873000	12" (300 mm)
HK30874000	16" (400 mm)
HK30875000	20" (500 mm)

OTHER SIZES ARE AVAILABLE

### THREADED ADAPTER/FACEPLATES

CODE No.	Size	Threads	CODE No.	Size	Threads
HK30871062	6" (160 mm)	1-1/2" x 8 TPI	HK30871084	8" (200 mm)	2-3/8" x 6 TPI
HK30871063	6" (160 mm)	2-1/4" x 8 TPI	HK30871103	10" (250 mm)	2-1/4" x 8 TPI
HK30871082	8" (200 mm)	1-1/2" x 8 TPI	HK30871104	10" (250 mm)	2-3/8" x 6 TPI
HK30871083	8" (200 mm)	2-1/4" x 8 TPI	HK30871124	12" (300 mm)	2-3/8" x 6 TPI

OTHER SPECIAL SIZE AVAILABLE

### CAM-LOCK DI-SERIES ADAPTER

CODE No.	Size	CODE No.	Size
HK35AP603	DI-3-6-1/4" (159 mm)	HK35AP10D4	DI-4-10-1/2" (267 mm)
HK35AP604	DI-4-6-1/4" (159 mm)	HK35AP10D5	DI-5-10-1/2" (267 mm)
HK35AP605	DI-5-6-1/4" (159 mm)	HK35AP10D6	DI-6-10-1/2" (267 mm)
HK35AP803	DI-3-8-1/4" (210 mm)	HK35AP10D8	DI-8-10-1/2" (267 mm)
HK35AP804	DI-4-8-1/4" (210 mm)	HK35AP12D5	DI-5-12-1/2" (318 mm)
HK35AP805	DI-5-8-1/4" (210 mm)	HK35AP12D6	DI-6-12-1/2" (318 mm)
HK35AP806	DI-6-8-1/4" (210 mm)	HK35AP12D8	DI-8-12-1/2" (318 mm)
HK35AP10D3	DI-3-10-1/2" (267 mm)	HK35AP12D11	DI-11-12-1/2" (318 mm)

PLEASE REFER TO NEXT PAGE FOR DETAILED SPECIFICATIONS

### AMERICAN STANDARD AI-SERIES ADAPTER

CODE No.	Size
HK35AP614	AI-4-6-1/4" (159 mm)
HK35AP615	AI-5-6-1/4" (159 mm)
HK35AP815	AI-5-8-1/4" (210 mm)
HK35AP816	AI-6-8-1/4" (210 mm)
HK35AP10A5	AI-5-10-1/2" (267 mm)
HK35AP10A6	AI-6-10-1/2" (267 mm)
HK35AP10A8	AI-8-10-1/2" (267 mm)
HK35AP12A6	AI-6-12-1/2" (318 mm)
HK35AP12A8	AI-8-12-1/2" (318 mm)
HK35AP12A11	AI-11-12-1/2" (318 mm)

### FACE PLATES

CODE No.	Size	Spindle Nose Taper
HK3087F0A4	10" (250 mm)	AI-4
HK3087F2A4	12" (300 mm)	AI-4
HK3087F4A6	14" (350 mm)	AI-6
HK3087F4A8	14" (350 mm)	AI-8
HK3087F6A6	16" (400 mm)	AI-6
HK3087F6A8	16" (400 mm)	AI-8
HK3087F2A6	20" (500 mm)	AI-6
HK3087F2A8	20" (500 mm)	AI-8
HK3087F2A11	20" (500 mm)	AI-11
HK3087F5A6	24" (600 mm)	AI-6
HK3087F5A8	24" (600 mm)	AI-8
HK3087F5A11	24" (600 mm)	AI-11
HK3087F9A8	28" (700 mm)	AI-8
HK3087F9A1	28" (700 mm)	AI-11
HK3087F9A2	40" (1000 mm)	AI-11
HK3087F9A3	32" (800 mm)	AI-11

### FACE PLATES

CODE No.	Size	Spindle Nose Taper
HK3087F0A4	10" (250 mm)	AI-4
HK3087F2A4	12" (300 mm)	AI-4
HK3087F4A6	14" (350 mm)	AI-6
HK3087F4A8	14" (350 mm)	AI-8
HK3087F6A6	16" (400 mm)	AI-6
HK3087F6A8	16" (400 mm)	AI-8
HK3087F2A6	20" (500 mm)	AI-6
HK3087F2A8	20" (500 mm)	AI-8
HK3087F2A11	20" (500 mm)	AI-11
HK3087F5A6	24" (600 mm)	AI-6
HK3087F5A8	24" (600 mm)	AI-8
HK3087F5A11	24" (600 mm)	AI-11
HK3087F9A8	28" (700 mm)	AI-8
HK3087F9A1	28" (700 mm)	AI-11
HK3087F9A2	40" (1000 mm)	AI-11
HK3087F9A3	32" (800 mm)	AI-11

## CAMLOCK D1-SERIES CHUCK BACKPLATE



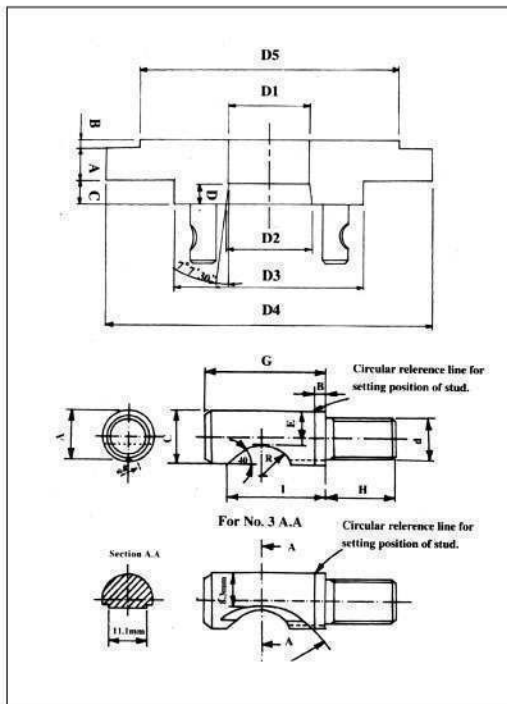
### ► D1-4



### ► D1-5 D1-11



CODE No.	Dimension								
D1-4	D1	D2	D3	D4	D5	A	B	C	D
6"	50	63.5	117	165	130	16	2.5	12	13
7"	50	63.5	117	190	155	18	2.5	12	13
8"	50	63.5	117	200	160	20	3	12	13
D1-5									
6"	78	82.563	146	165	145	16	2.5	8	14.3
7"	78	82.563	146	190	155	18	3	8	14.3
8"	78	82.563	146	200	160	20	3	8	14.3
9"	78	82.563	146	232	190	22	3	8	14.3
10"	78	82.563	146	273	230	26	3	8	14.3
D1-6									
7"	80	106.39	180	190	155	18	2.5	15	16
8"	80	106.39	180	200	160	20	3	12	16
9"	80	106.39	180	232	190	22	3	10	16
10"	80	106.39	180	273	230	24	3	10	16
12"	80	106.39	180	310	260	26	4	10	16
14"	80	106.39	180	355	300	28	4	10	16
16"	80	106.39	180	405	345	30	4	10	16
D1-8									
9"	100	139.735	225	232	190	22	3	15	17.5
10"	100	139.735	225	273	230	24	3	15	17.5
12"	100	139.735	225	310	260	26	4	15	17.5
14"	100	139.735	225	355	300	28	4	10	17.5
16"	100	139.735	225	405	345	30	4	10	17.5
D1-11									
12"	120	196.885	300	310	260	26	4	15	22.1
14"	120	196.885	300	355	300	28	4	15	22.1
16"	120	196.885	300	405	345	30	4	15	22.1

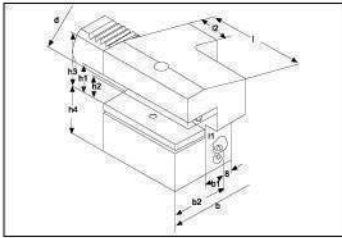


### STUDS

Dimension	No.	3	4	5	6	8	11
A,0.004		0.516	0.547	0.640	0.766	0.891	1.078
B,0.008		0.166	0.187	0.1875	0.1875	0.1875	0.250
C,0.008		0.563	0.625	0.750	0.875	0.1875	1.1875
D		7/16.20	7/16.20	1/2.20	5/8.18	3/4.16	27/8.14
E,0.004		UNF	UNF	UNF	UNF	UNF	UNF
G		1 3/8	1 7/16	1 11/16	1 15/16	2 3/16	2 5/8

## VDI TOOL HOLDER DIN 69880

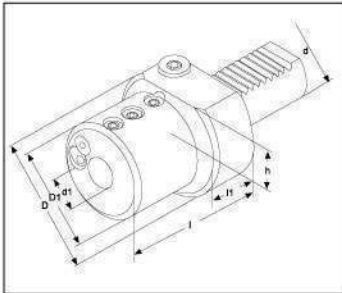
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### Axial-Werkzeughalter 014 Überkopt links

- Axial toolholder 014 overhead left.
- Porte-outil axial 014 inverse a gauche..

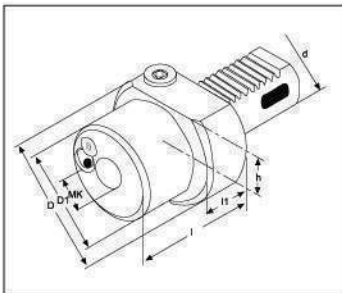
CODE No.	Art-Nr.	d	b	b1	b2	h1	h2	h3	h4	l	l1	l2
4499-1036	102.20.16.014	20	65	25.5	40	16	12	30	25	50	-	30
4499-1017	102.30.20.014	30	74	21	39	20	16	38	35	70	10	30
4499-1018	102.40.25.014	40	90	25.5	47.5	25	20	48	42.5	85	12.5	30
4499-1037	102.50.22.014	50	105	30.5	55	32	25	60	50	100	16	40



### Bohrstangenhalter 005

- Boring bar holder 005.
- Porte-outil pour barre d'alesage 005.

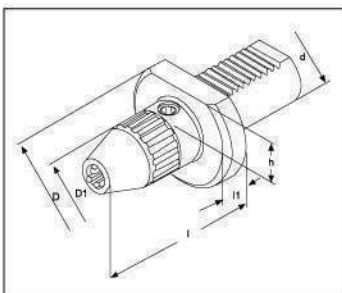
CODE No.	Art-Nr.	d	d1	d1	d1	d1	d1	D	D1	h	l	h
4499-1110	103.020.....005	20	8	10	12	16		50	40	22	50	16
4499-1111	103.020.25.005						25	50	50	22	50	16
4499-1112	103.030.....005	30	8	10	12	16	20	25	68	55	28	60
4499-1113	103.030.32.005						32	68	68	28	75	
4499-1114	103.040.....005	40	8	10	12	16	20	25	83	55	32.5	75
4499-1115	103.040.32.005						32	83	83	32.5	75	
4499-1116	103.040.40.005						40	83	83	32.5	75	
4499-1117	103.050.....005	50	10	12	16	20	25	32	98	68	35	90
4499-1118	103.050.40.005						40	98	98	35	90	
4499-1119	103.050.50.005						50	98	98	35	100	



### Bohrerhalter für MK-Werkzeuge DIN 228, 006

- Holder for m.t. shanks to DIN 228, 006
- Porte-outil pour foret au cone morse suivant DIN 228, 006

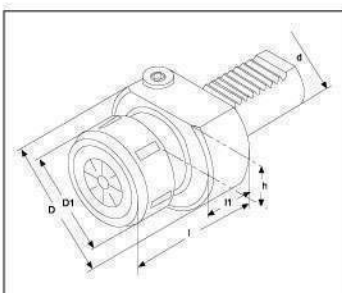
CODE No.	Art-Nr.	d	MK	D	D1	h	l	h
4499-1120	104.20.01.006	20	1	50	40	22	23	20
4499-1121	104.30.01.006	30	1	68	52	28	25	20
4499-1122	104.30.02.006	30	2	68	58	28	25	20
4499-1123	104.30.03.006	30	3	68	68	28	40	25
4499-1124	104.40.02.006	40	2	83	58	32.5	34	25
4499-1125	104.40.03.006	40	3	83	64	32.5	58	25
4499-1126	104.40.04.006	40	4	83	72	32.5	86	25
4499-1127	104.50.02.006	50	2	98	-	35	25	-
4499-1128	104.50.03.006	50	3	98	64	35	42	25
4499-1129	104.50.04.006	50	4	98	72	35	71	25



### Schnellspann-Bohrfutter für Links-und Rechtslaut

- Quick locking drill chuck for left and right rotation
- Mandrin de perçage a serrage rapide pour rotation a gauche e droite.

CODE No.	Art-Nr.	d	D	D1	h	l	l	Spann-bereich
4499-1130	105.20.13.007	20	50	43	22	71	18	1-30
4499-1131	105.30.13.007	30	68	43	28	81	18	1-30
4499-1132	105.40.13.007	40	83	43	32.5	77	18	1-30
4499-1133	105.40.16.007	40	83	56	32.5	95	18	2.5-16
4499-1134	105.50.16.007	50	98	56	35	95	18	2.5-16



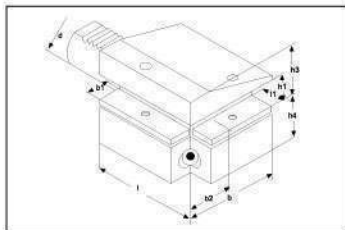
### Scanzangenhalter für Rego-fix-und

- Schaublin-Spannzangen 201
- Collet holder for Rego-fix and Scenaublin coilets 201
- Porte-outil pou/serrage de pinces Rego-fix et Schaublin 201

CODE No.	Art-Nr.	d	D	D1	h	l	l1	Spannbereich	Spannzane
4499-1135	201.020.20	20	50	50	25	55	18	2-10	ER/ESX 32
4499-1136	201.030.20	30	68	50	28	75	29	2-20	ER/ESX 32
4499-1137	201.030.26	30	68	63	28	75	26	3-26	ER/ESX 40
4499-1138	201.040.20	40	83	50	32.5	75	22	2-20	ER/ESX 32
4499-1139	201.040.26	40	83	63	32.5	75	22	3-26	ER/ESX 40
4499-1140	201.050.26	50	98	63	35	90	30	3-26	ER/ESX 40
4499-1141	201.050.34	50	98	78	35	90	30	10-34	ER/ESX 50



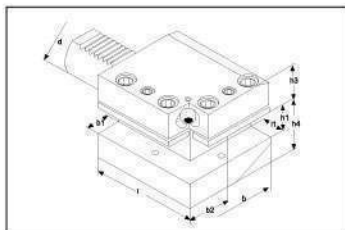
## VDI TOOL HOLDER DIN 69880



### Axial-Radial-Werkzeughalter 008

• Axial-Radial toolholder 008 • Porte-outil axial-radial 008

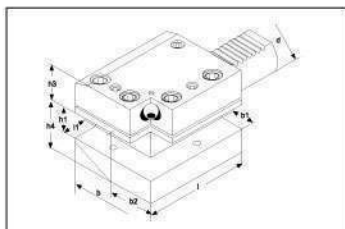
CODE No.	Art-Nr.	d	b	b1	b2	h1	h2	h3	h4	l	l1
4499-1142	106.30.20.008	30	70	18	35	20	16	38	35	70	18
4499-1143	106.40.25.008	40	85	22	42.5	25	20	48	42.5	100	25
4499-1144	106.50.32.008	50	100	24	50	32	25	60	50	120	24



### Axial-Radial-Werkzeughalter 009

• Axial-Radial toolholder 009 • Porte-outil axial-radial 009

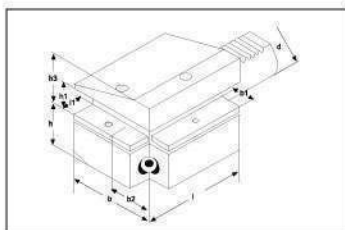
CODE No.	Art-Nr.	d	b	b1	b2	h1	h2	h3	h4	l	l1
4499-1145	106.30.20.009	30	70	18	35	20	16	28	38	70	18
4499-1146	106.40.25.009	40	85	22	42.5	25	20	32.5	48	100	25
4499-1147	106.50.32.009	50	100	24	50	32	25	35	60	120	24



### Axial-Radial-Werkzeughalter

• Axial-Radial toolholder • Porte-outil axial-radial

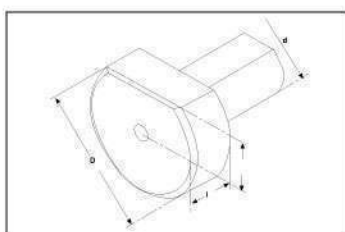
CODE No.	Art-Nr.	d	b	b1	b2	h1	h2	h3	h4	l	l1
4499-1148	106.30.20.018	30	74	18	39	20	16	28	38	70	18
4499-1149	106.40.25.018	40	90	22	47.5	25	20	32.5	48	100	25
4499-1150	106.50.32.018	50	105	25	55	32	25	35	60	120	25



### Axial-Radial-Werkzeughalter

• Axial-Radial toolholder • Porte-outil axial-radial

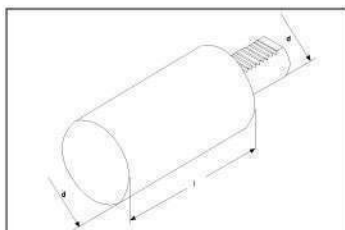
CODE No.	Art-Nr.	d	b	b1	b2	h1	h2	h3	h4	l	l1
4499-1151	106.30.20.019	30	74	18	39	20	16	38	35	70	18
4499-1152	106.40.25.019	40	85	22	47.5	25	20	48	42.5	100	25
4499-1153	106.50.32.019	50	105	25	55	32	25	60	50	120	25



### Schutzstopfen 50

• Bilnd tooling bore 50 • Bouchon de protection 50

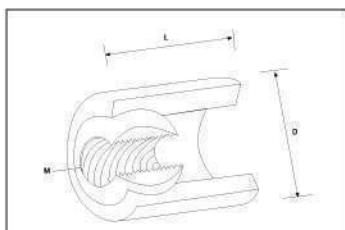
CODE No.	Art-Nr.	d	D	h	l
4499-1154	110.020.50	20	50	25	16
4499-1155	110.030.68	30	68	28	16
4499-1156	110.040.83	40	83	32.5	20
4499-1157	110.050.98	50	98	35	20



### Schutzstopfen 50

• Bilnd tooling bore 50 • Bouchon de protection 50

CODE No.	Art-Nr.	d	D	h	l
4499-1158	110.020.50	20	50	25	16
4499-1159	110.030.68	30	68	28	16
4499-1160	110.040.83	40	83	32.5	20
4499-1161	110.050.98	50	98	35	20

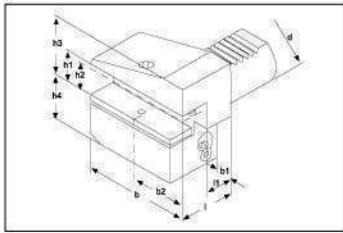


### Coolant nozzle

CODE No.	Art-Nr.	d	L	M
4499-1162	NO10	10	7	4
4499-1163	NO12	12	8	5
4499-1164	NO14	14	10	6
4499-1165	NO16	16	11	7

## VDI TOOL HOLDER DIN 69880

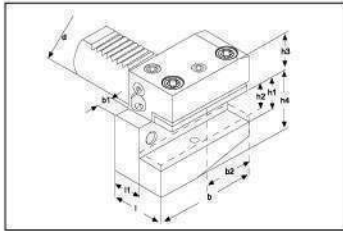
TAIWAN



### Radial-Werkzeughalter 001 Überkopf rechts, kurz

- Radial toolholder 001 overhead right, short
- Porte-outil radial 001 inverse a oraite court

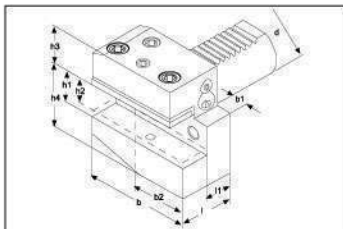
CODE No.	Art-Nr.	d	b	b1	b2	h1	h2	h3	h4	l	l1
4499-1038	101.20.16.001	20	55	7	30	16	12	30	25	30	16
4499-1011	101.30.20.001	30	70	10	35	20	16	38	35	40	22
4499-1012	101.40.25.001	40	85	12.5	42.5	25	20	48	42.5	44	22
4499-1039	101.50.32.001	50	100	16	50	32	25	60	50	55	30



### Radial-Werkzeughalter 002 links, kurz

- Radial toolholder 002 left, short
- Porte-outil radial 002 a gauche court

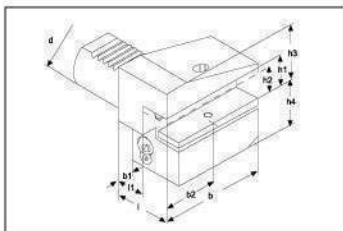
CODE No.	Art-Nr.	d	b	b1	b2	h1	h2	h3	h4	l	l1
4499-1040	101.20.16.002	20	55	7	25	16	12	25	30	30	16
4499-1013	101.30.20.002	30	70	10	35	20	16	28	38	40	22
4499-1014	101.40.25.002	40	85	12.5	42.5	25	20	32.5	48	44	22
4499-1041	101.50.32.002	50	100	16	50	32	25	35	60	55	30



### Radial-Werkzeughalter 001 rechts, kurz

- Radial toolholder 001 right, short
- Porte-outil radial 001 a gauche court

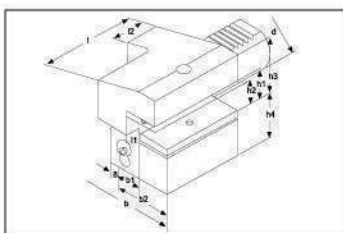
CODE No.	Art-Nr.	d	b	b1	b2	h1	h2	h3	h4	l	l1
4499-1042	101.20.16.011	20	55	7	30	16	12	25	30	30	16
4499-1015	101.30.20.011	30	70	10	35	20	16	28	38	40	22
4499-1016	101.40.25.011	40	85	12.5	42.5	25	20	32.5	48	44	22
4499-1043	101.50.32.011	50	100	16	50	32	25	35	60	55	30



### Radial-Werkzeughalter 012 Überkopf links, kurz

- Radial toolholder 012 overhead left, short
- Porte-outil radial 012 inverse a gauche court

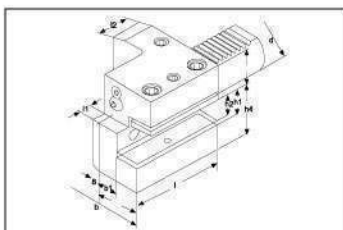
CODE No.	Art-Nr.	d	b	b1	b2	h1	h2	h3	h4	l	l1
4499-1044	101.20.16.012	20	55	7	30	16	12	30	25	30	16
4499-1017	101.30.20.012	30	70	10	35	20	16	38	35	40	22
4499-1018	101.40.25.012	40	85	12.5	42.5	25	20	48	42.5	44	22
4499-1045	101.50.32.012	50	100	16	50	32	25	60	50	55	30



### Axial-Werkzeughalter 003 Überkopf rechts

- Axial toolholder 003 overhead right
- Porte-outil axial 003 inverse a drorip

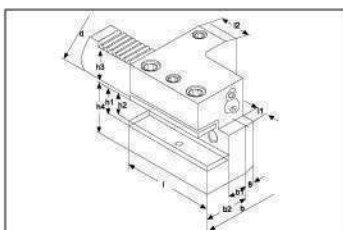
CODE No.	Art-Nr.	d	b	b1	h1	h2	h3	h4	l	l1	l2
4499-1030	102.20.16.003	20	65	25.5	16	12	30	25	50	-	30
4499-1011	102.30.20.003	30	70	17	20	16	38	35	70	10	30
4499-1012	102.40.25.003	40	85	20.5	25	20	48	42.5	85	12.5	30
4499-1031	102.50.32.003	50	100	25.5	32	25	60	50	100	16	40



### Axial-Werkzeughalter 004 rechts

- Axial toolholder 004 overhead right
- Porte-outil axial 004 inverse a drorip

CODE No.	Art-Nr.	d	b	b1	h1	h2	h3	h4	l	l1	l2
4499-1032	102.20.16.004	20	65	25.5	16	12	25	30	50	-	30
4499-1024	102.30.20.004	30	70	17	20	16	8	38	70	10	30
4499-1025	102.40.25.004	40	85	20.5	25	20	32.5	48	85	12.5	30
4499-1033	102.50.32.004	50	100	25.5	32	25	35	60	100	16	40



### Axial-Werkzeughalter 013 links

- Axial toolholder 013 left
- Porte-outil axial 013 a gauche

CODE No.	Art-Nr.	d	b	b1	b2	h1	h2	h3	h4	l	l1	l2
4499-1034	102.20.16.013	20	65	25.5	40	12	25	30	25	50	-	30
4499-1026	102.30.20.013	30	74	21	39	16	8	38	35	70	10	30
4499-1027	102.40.25.013	40	90	25.5	47.5	20	32.5	48	42.5	85	12.5	30
4499-1035	102.50.22.013	50	105	30.5	55	25	35	60	50	100	16	40



## QUICK CHANGE TOOL POST & HOLDERS-ITALIAN STYLE

CHINA

### ▶ QCT-120S~QCT-280

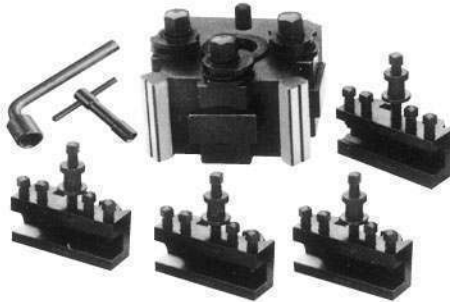


#### Italian Style

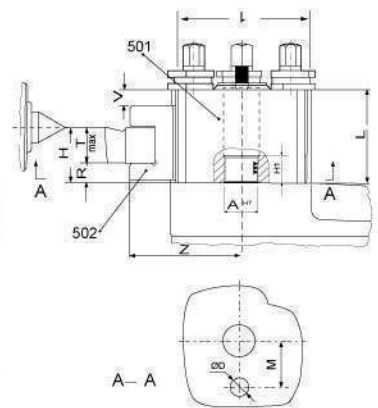
The main block is assembled with cast-hardened steel, secured rigidly by the latch carriage machine steel bolt. The main block has 4 slide openings for inserting the proper tool-holder; these can be securely fastened by a simple and safe eccentric device, which also adjusts the height for each tool holder. The tool shank is securely held by 4 hardened screws. The simplicity and fast tool changing increase the production of lathe turning. No chatter or vibrations. This style is interchangeable with Rapidue and STM.

#### Complete set includes:

- Tool post
- 3 pieces of Turning holder
- 1 piece of Boring holder
- Standard spanners



To order in sets please include a S at the end of the toolpost code No. (eg.QCT-120S)



#### 5-PIECE SETS

CODE No.	Mfg. No.	Each Set Includes
QCT-120S	M	1 PCS 501-M, 3 PCS 502-M AND 1 PCS 503-M
QCT-140S	AR-AP	1 PCS 501-AR-AP, 3 PCS 502-AR-AP AND 1 PCS 503-AR-AP
QCT-170S	A	1 PCS 501-A, 3 PCS 502-A AND 1 PCS 503-A
QCT-200S	BR-BP	1 PCS 501-A, 3 PCS 502-A AND 1 PCS 503-A
QCT-230S	B	1 PCS 501-BR-BP, 3 PCS 502-BR-BP AND 1 PCS 503-BR-BP
QCT-280S	C	1 PCS 501-C, 3 PCS 502-C AND 1 PCS 503-C

CODE No.	Mfg. No.	Lathe Swing	I	AH7	H		L	R	Tmax	Z	Ø max	Morse No	Ø D	M	H1
					Min	Max									
QCT-120	M	180-250	57.7	18	24	34	45	8	16	56	14	1	7	27	18
QCT-140	AR-AP	250-300	64.5	18	25	41	56	9	16	63	16	1	8	30	16
QCT-170	A	250-350	82.0	2	32	42	60	12	20	75	18	2	10	35	20
QCT-200	BR-BP	300-380	91.6	28	38	53	75	13	25	90	20	3	10	40	20
QCT-230	B	350-500	100.0	30	47	65	85	15	32	100	24	3	12	48.2	25
QCT-280	C	500-650	115.3	38	51	72	94	19	32	108	26	4	14	58.2	26

### ▶ QCT-120~QCT-350



#### QUICK CHANGE TOOL POST

CODE No.	Mfg. No.	Centre Height (mm)	Centre Height (mm)
QCT-120	501-M	120	240
QCT-140	501-AR-AP	140	280
QCT-170	501-A	170	340
QCT-200	501-BR-BP	200	400
QCT-230	501-B	230	460
QCT-280	501-C	280	560
QCT-350	501-D	350	700

### ▶ 515M~508D



CODE No.	CH	CODE No.	L	CODE No.	L	CODE No.	Ø
515-M	7	505-M	66	506-M	20	508-M	7
515-AR-AP	8	505-AR-AP	81	506-AR-AP	26	508-AR-AP	8
515-A	8	505-A	90	506-A	30	508-A	10
515-BR-BP	10	505-BR-BP	108	506-BR-BP	37	508-BR-BP	10
515-B	10	505-B	125	506-B	42	508-B	12
515-C	12	505-C	140.5	506-C	48	508-C	14
515-D	14	505-D	156	506-D	50	508-D	14



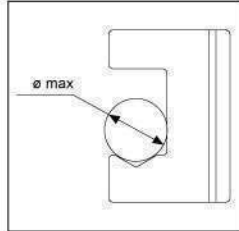
## QUICK CHANGE TOOL POST & HOLDERS-ITALIAN STYLE



### ► QCT-120-2~QCT-280-2



Morse Holder



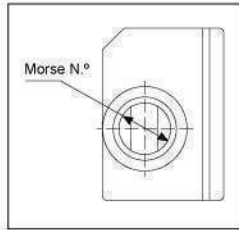
#### TOOLHOLDER FOR ROUND SHANKS

CODE No.	Mfg. No.	Centre Height (mm)	Max. Holding Dia(mm)
QCT-120-2	503-M	120	14
QCT-140-2	503-AR-AP	140	16
QCT-170-2	503-A	170	18
QCT-200-2	503-BR-BP	200	20
QCT-230-2	503-B	230	24
QCT-280-2	503-C	280	26

### ► QCT-120-3~QCT-280-3



Morse Holder



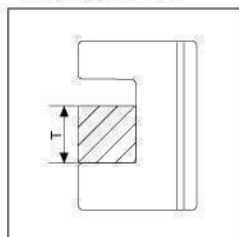
#### TOOLHOLDER MORSE SHANK

CODE No.	Mfg. No.	Centre Height (mm)	Morse Taper Hole
QCT-120-3	504-M	120	MT No.1
QCT-140-3	504-AR-AP	140	MT No.1
QCT-170-3	504-A	170	MT No.2
QCT-200-3	504-BR-BP	200	MT No.3
QCT-230-3	504-B	230	MT No.3
QCT-280-3	504-C	280	MT No.4

### ► QCT-120-1~QCT-280-1



Turning Holder



#### TOOLHOLDER TOOL BITS

CODE No.	Mfg. No.	Centre Height (mm)	Max. Square & Rectangular tool (mm)
QCT-120-1	502-M	120	16
QCT-140-1	502-AR-AP	140	20
QCT-170-1	502-A	170	25
QCT-200-1	502-BR-BP	200	32
QCT-230-1	502-B	230	32
QCT-280-1	502-C	280	

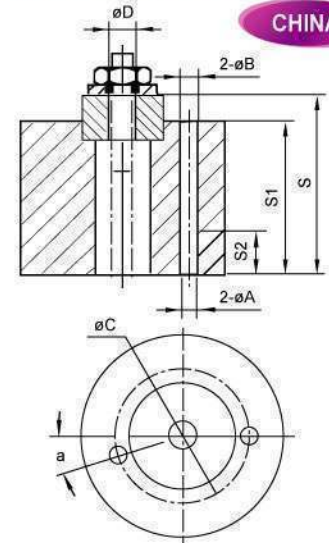
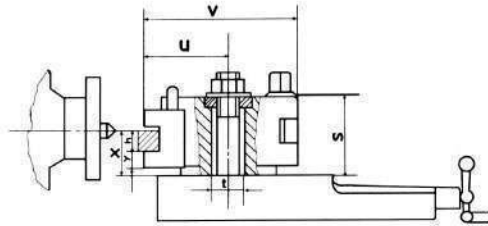


## QUICK CHANGE TOOL POST & HOLDERS-40 POSITIONING EUROPEAN STYLE

### ▶ QCT-1222~QCT-60100

#### European Style

Tool post and tool holders are precisely grounded with 40 tool-bit positions. Easy to operate and can be fitted with many different tool-holders. Locking and loosening of any tool-holders are performed by a simple eccentric clamping. The simplicity and fast tool changing increases the lathe turning production. A height adjustment for tool bits is controlled by a knurled head-screw, without the need for packing plates or shims.



CHINA

CODE No.	Mfg. No.	Driving Power (kw)	Lathe Swing (mm)	Xmin (mm)	Xmax (mm)	y (mm)	h (mm)	v (mm)	s (mm)	u (mm)	f (mm)
QCT-1222	540-000	1.2	120-220	18.5	26.5	12	12	68	37	34	13
QCT-1530	540-100	2	150-300	25.5	36.5	16	16	104	55	52	20
		2	150-300	29.5	40.5	20	20	104	55	52	0
QCT-2040	540-200	4.5	200-400	32	49	20	20	132	68	66	20
		4.5	200-400	37	2	25	25	132	68	66	20
QCT-3050	540-300	7	300-500	38	58	25	25	150	76	73	32
		7	300-500	46	57	32	32	150	76	73	32
QCT-4070	540-400	13	400-700	47.5	87.5	32	32	192	107	93	40
		13	400-700	55.5	91.5	40	40	201	107	102	40
		13	400-700	61	91	45	45	202	107	103	40
QCT-60100	540-500	19	600-1000	60	96	40	40	230	124	112	40
		19	600-1000	72	102	50	50	233	124	114	40
		19	600-1000	85	105	63	63	241	124	122	40

CODE No.	Mfg. No.	Ø D	S2	S1	S	Ø A	Ø B	Ø C	∠
QCT-1222	540-000	6	-	30	37	-	-	-	-
QCT-1530	540-100	10	12	45	55.3	5.6	6.8	42	18°
QCT-2040	540-200	10	14	57	67.3	5.6	6.8	49	15°
QCT-3050	540-300	14	20	65	75	6.9	9	64	30°
QCT-4070	540-400	24.5	10	95	107	9.5	11	88	18°
QCT-60100	540-500	14	26	110	125	11	14	103	27°

### ▶ QCT-1222S~QCT-60100S



#### 5-Piece sets

CODE No.	Each Set Includes (5 Pcs / Set)
QCT-1222S	1 pcs tool post 540-000 (A0), 3 pcs 540-010 (A0D12 x 50) and 1 pcs 540-020 (A0B12 x 50)
QCT-1530S	1 pcs tool post 540-100 (A1), 3 pcs 540-115 (A1D20 x 90) and 1 pcs 540-122 (A1B20 x 90)
QCT-2040S	1 pcs tool post 540-200 (B5), 3 pcs 540-211 (E5D20 x 100) and 1 pcs 540-220 (E5B30 x 100)
QCT-3050S	1 pcs tool post 540-300 (B2), 3 pcs 540-311 (B2D25 x 120) and 1 pcs 540-320 (B2B32 x 130)
QCT-4070S	1 pcs tool post 540-400 (C3), 3 pcs 540-411 (C3D32 x 150) and 1 pcs 540-422 (C3B40 x 160)
QCT-60100S	1 pcs tool post 540-500 (D1), 3 pcs 540-511 (C1D40 x 180) and 1 pcs 540-522 (C1B50 x 180)

### ▶ QCT-1222~QCT-60100



#### 40 Position Tool Post

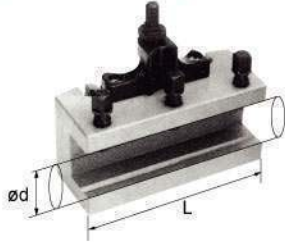
CODE No.	Mfg. No.	Centre Height (mm)	Series No.	Height Of Cutting Edge Range (mm)
QCT-1222	540-000	120-220	A0	D12 / 18.5~26.5
QCT-1530	540-100	150-300	A1	D16 / 25.5~36.5 or D20 / 29.5~40.5
QCT-2040	540-200	200-400	E5	D20 / 32~49 or D25 / 37~52
QCT-3050	540-300	300-500	B2	D25 / 38~58 or D32 / 46~57
QCT-4070	540-400	400-700	C3	D32 / 47.5~87.5 or D40 / 55.5~91.5 or D45 / 61~91
QCT-60100	540-500	600-1000	D1	D40 / 60~96 or D50 / 72~102 or D63 / 85~105



## QUICK CHANGE TOOL POST & HOLDERS

CHINA

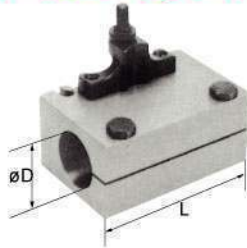
### ▶ QCT-1222-2~QCT-4070-2-1



#### Boring Bar Holder-"B"

CODE No.	Mfg. No.	Series No.	Max. Dia (mm)	Length (mm)
QCT-1222-2	540-020	A0B	12	50
QCT-1530-2	540-121	A1B	16	80
QCT-1530-2-1	540-120	A1B	18	80
QCT-1530-2-2	540-122	A1B	20	90
QCT-2040-2	540-220	E5B	30	100
QCT-3050-2	540-320	B2B	32	130
QCT-4070-2	540-421	C3B	32	160
QCT-4070-2-1	540-422	C3B	40	160

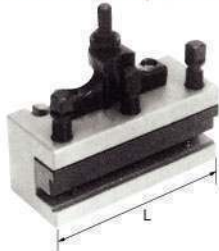
### ▶ QCT-1222-3~QCT-4070-3-1



#### Drilling & Boring bar Holder-"S"

CODE No.	Mfg. No.	Series No.	Max. Dia (mm)	Length (mm)
QCT-1222-3	540-030	A0S	15	50
QCT-1530-3	540-130	A1S	30	80
QCT-1530-3-1	540-131	A1S	20	80
QCT-2040-3	540-231	E5S	30	100
QCT-2040-3-1	540-232	E5S	40	100
QCT-3050-3	540-330	B2S	40	120
QCT-4070-3	540-431	C3S	40	150
QCT-4070-3-1	540-432	C3S	50	150

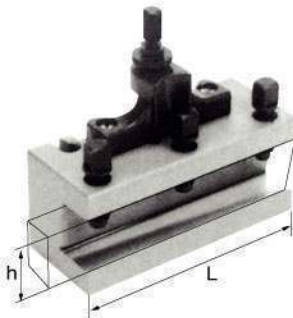
### ▶ QCT-1222-4~QCT-4070-4



#### Cut-Off Tool Holder-"A"

CODE No.	Mfg. No.	Series No.	Blade-T x W	Length (mm)
QCT-1222-4	540-040	A0A	2.7 x 10	50
QCT-1530-4	540-140	A1A	2.7 x 10	75
QCT-2040-4	540-240	E5A	2.7 x 10	100
QCT-3050-4	540-340	B2A	4 x 16	120
QCT-4070-4	540-440	C3A	5 x 18.5	150

### ▶ QCT-1222-1~QCT-4070-1-5



#### Turning & Facing Holder-"D"

CODE No.	Mfg. No.	Series No.	Max. Heigh (mm)	Max. Length (mm)
QCT-1222-1	540-010	A0D	12	50
QCT-1530-1-1	540-111	A1D	16	75
QCT-1530-1-2	540-112	A1D	16	80
QCT-1530-1-3	540-113	A1D	16	90
QCT-1530-1-4	540-114	A1D	20	75
QCT-1530-1-5	540-110	A1D	20	80
QCT-1530-1-6	540-115	A1D	20	90
QCT-2040-1-1	540-211	E5D	20	100
QCT-2040-1-2	540-212	E5D	25	100
QCT-3050-1-1	540-311	B2D	25	120
QCT-3050-1-2	540-312	B2D	25	140
QCT-3050-1-3	540-313	B2D	32	120
QCT-3050-1-4	540-314	B2D	32	140
QCT-4070-1-1	540-411	C3D	32	150
QCT-4070-1-2	540-412	C3D	32	170
QCT-4070-1-3	540-413	C3D	40	150
QCT-4070-1-4	540-414	C3D	40	170
QCT-4070-1-5	540-415	C3D	45	170

### ▶ QCT-1530-5~QCT-4070-5-2



#### Morse Taper Bushing-"L"

CODE No.	Mfg. No.	Series No.	Diameter(mm)	Length (mm)	Morse Taper (mm)
QCT-1530-5	540-151	A1L	30	80	NO.1
QCT-1530-5-1	540-152	A1L	30	90	NO.2
QCT-2040-5	540-251	E5L	30	96	NO.2
QCT-2040-5-1	540-252	E5L	40	114	NO.3
QCT-3050-5	540-350	B2L	40	120	NO.2
QCT-3050-5-1	540-351	B2L	40	120	NO.3
QCT-4070-5	540-451	C3L	40	140	NO.3
QCT-4070-5-1	540-452	C3L	40	150	NO.4
QCT-4070-5-2	540-453	C3L	50	150	NO.4



## QUICK CHANGE TOOL POST & HOLDERS-AMERICAN STYLE

CHINA

### ▶ AQCT-1200~AQCT-1420-9

#### American Style

American style provides instant changing from one operation to another. A knurled nut on each tool-holder allows exact height adjustment, with out the use of shims, this increases productivity of all lathe operation.

All working parts are hardened and grounded. Allows users to change tools in seconds, and provides maximum rigidity with chatter-free performance. It is completely sealed for maintenance-free operations.

This style is interchangeable with Aloris, Yuasas, Phase II and Pristage.

#### Complete Set Includes:

- Tool post
- Tool holder
  - Turning and Facing
  - Boring,Turning & Facing
  - Heavy Duty Boring Bar (AQCT-1200-4)
  - Universal Parting blade
  - Knurling,Facing & Turning

To order in sets please include a S at the end of the toolpost code No. (eg.AQCT-1200S)



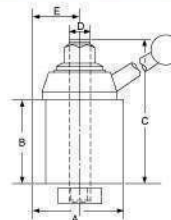
• PISTON TYPE

• WEDGE TYPE

#### DESCRIPTION

Suitable for Lathe	Capacity to 12" swing Code No.	Capacity to 10"-15" Swing Code No.	Capacity to 13"-18" Swing Code No.	Capacity to 14"-20" Swing Code No.
Piston Type Toolpost	AQCT-1200	AQCT-1015	AQCT-1318	AQCT-1420
Wedge type toolpost	AQCT-1201	AQCT-1016	AQCT-1319	AQCT-1421
Turning & facing tool-holder	AQCT-1200-2 3/16"-1/2"	AQCT-1015-2 1/4"-5/8"	AQCT-1318-2 1/2"-3/4"	AQCT-1420-2 1/2"-1"
Boring,turning & facing tool-holder	AQCT-1200-3 3/16"-1/2"	AQCT-1015-3 1/4"-5/8"	AQCT-1318-3 1/2"-3/4"	AQCT-1420-3 1/2"-1"
Boring bar tool-holder	AQCT-1200-4 5/8"-3/4"	AQCT-1015-4 3/4"-1"	AQCT-1318-4 3/4"-1"	AQCT-1420-4 1"-1-1/4"
Boring bar tool-holder-lager cap	AQCT-1200-5 3/4"-1"	AQCT-1015-5 1"-1-1/4"	AQCT-1318-5 1"-1-1/4"	AQCT-1420-5 1-1/4"-1-1/2"
Morse taper tool-holder	AQCT-1200-6 MT2	AQCT-1015-6 MT2	AQCT-1318-6 MT3	AQCT-1420-6 MT3
Morse taper tool-holder-lage taper	AQCT-1200-7 MT3	AQCT-1015-7 MT3	AQCT-1318-7 MT4	AQCT-1420-7 MT4
Universal parting blade tool-holder	AQCT-1200-8 1/2"	AQCT-1015-8 11"/16"	AQCT-1318-8 3/4"	AQCT-1420-8 7/8"
Knurling,facing&turning tool-holder	AQCT-1200-9 3/16"-1/2"	AQCT-1015-9 1/4"-5/8"	AQCT-1318-9 1/2"-3/4"	AQCT-1420-9 1/2"-1"

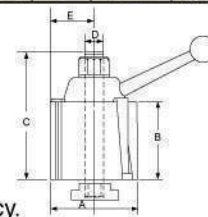
### ▶ AQCT-1200~AQCT-1420



#### PISTON QUICK CHANGE TOOL POST

Specification	Lathe Swing		A		B		C		D	E		Holder Code
	inch	mm	inch	mm	inch	mm	inch	mm		inch	mm	
AQCT-1200	12	304	2-1/2	63.5	2-1/4	57.15	3-3/4	95.25	M14x1.5	1-7/16	36.512	250-1xx
AQCT-1015	10-15	254-381	3	76.2	2-3/4	69.85	4-3/8	111.125	M16x1.5	1-5/8	41.275	250-2xx
AQCT-1318	13-18	330-457	3-3/8	85.725	3	76.2	4-7/8	123.825	M20x2	1-7/8	47.625	250-3xx
AQCT-1420	14-20	355-508	4	101.6	3-5/8	92.075	6	152.4	M22x2	2-1/8	53.975	250-4xx

### ▶ AQCT-1201~AQCT-1748



#### WEDGE QUICK CHANGE TOOL POST

More precision engineered to assure repetitive accuracy.

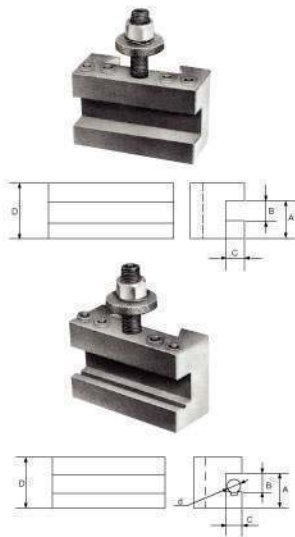
Specification	Lathe		A		B		C		D	E		Holder Code
	inch	mm	inch	mm	inch	mm	inch	mm		inch	mm	
AQCT-1201	12	304	2-1/2	63.5	2-1/4	57.15	3-3/4	95.25	M14x1.5	1-3/8	34.925	250-1xx
AQCT-1016	10-15	254-381	3	76.2	2-3/4	69.85	4-3/8	111.125	M16x1.5	1-9/16	39.68	250-2xx
AQCT-1319	13-18	330-457	3-1/2	88.9	3	76.2	4-7/8	123.83	M20x2	1-29/32	48.42	250-3xx
AQCT-1421	14-20	355-508	4	101.6	3-5/8	92.075	6	152.4	M22x2	2-1/8	53.975	250-4xx
AQCT-1748	17-48	432-1219	5	127	4-5/8	117.47	7-3/8	187.32	M24x2	2-11/16	68.26	250-5xx



## QUICK CHANGE TOOL POST & HOLDERS-AMERICAN TYPE

CHINA

### ▶ AQTC-1200-2~AQTC-1748-3



#### TURNING AND FACING TOOL HOLDER

Takes various sizes of bits, Turning and facing tools can be locked in together

Specification	AQTC-1200-2		AQTC-1015-2		AQTC-1318-2		AQTC-1420-2		AQTC-1748-2	
Model	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
A	15/16	23.81	1-1/8	28.57	1-7/16	36.51	1-11/16	42.86	3-3/16	55.56
B	1/2	12.7	5/8	15.87	3/4	19.05	1	25.4	1-1/4	31.75
C	7/16	11.11	1/2	12.7	5/8	15.87	3/4	19.05	1	25.4
D	1-1/2	38.1	1-3/4	44.45	2-1/8	53.97	2-1/2	63.5	3-1/8	79.37

#### BORING, TURNING & FACING TOOL-HOLDER

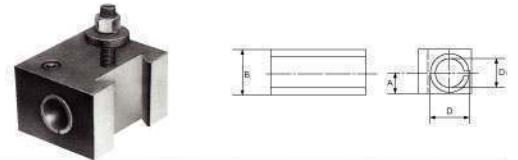
"V" groove holds round shank boring bars and tools, as well as square tool bits.

Specification	AQTC-1200-3		AQTC-1015-3		AQTC-1318-3		AQTC-1420-3		AQTC-1748-3	
Model	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
A	15/16	23.81	1-1/8	28.57	1-7/16	36.51	1-11/16	42.86	3-3/16	55.56
B	1/2	12.7	5/8	15.87	3/4	19.05	1	25.4	1-1/4	31.75
C	7/16	11.11	1/2	12.7	5/8	15.87	3/4	19.05	1	25.4
D	1-1/2	38.1	1-3/4	44.45	2-1/8	53.97	2-1/2	63.5	3-1/8	79.37
d	7/16	11.11	1/2	12.7	5/8	15.87	3/4	19.05	1-1/8	28.57

### ▶ AQTC-1200-4~AQTC-1420-5

#### HEAVY DUTY BORING BAR TOOL-HOLDER

Equipped with a split bushing to accommodate a boring bar of smaller diameter.

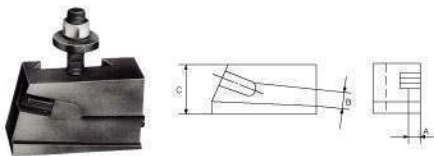


Specification	AQTC-1200-4		AQTC-1015-4		AQTC-1318-4		AQTC-1420-4		AQTC-1748-4		AQTC-1200-5		AQTC-1015-5		AQTC-1318-5		AQTC-1420-5	
Model	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
A	3/4	19.05	7/8	22.22	1	25.4	1-1/4	31.75	1-9/16	39.68	7/8	22.22	1	25.4	1-1/8	28.57	1-3/8	28.75
B	1-1/2	38.1	1-3/4	44.45	2	50.8	2-1/2	63.5	3-1/8	79.37	1-3/4	44.45	2	50.8	2-1/4	57.15	2-3/4	57.15
C	3/4	19.05	1	25.4	1	25.4	1-1/4	31.75	1-1/2	38.1	1	25.4	1-1/4	31.75	1-1/4	31.75	1-1/2	31.75
D1	5/8	15.87	3/4	19.05	3/4	19.05	1	25.4	1-1/4	31.75	3/4	19.05	1	25.4	1	25.4	1-1/4	25.4

### ▶ AQTC-1200-6~AQTC-1748-6

#### UNIVERSAL PARTING BLADE TOOL-HOLDER

For bevel as well as T-cut blades enables you to cut-off close to chuck

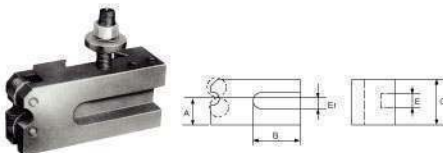


Specification	AQTC-1200-6		AQTC-1015-6		AQTC-1318-6		AQTC-1420-6		AQTC-1748-6	
Model	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
A	3/16	4.76	3/16	4.76	3/16	4.76	1/4	6.35	1/4	6.35
B	1/2	12.7	11/16	17.46	3/4	19.05	7/8	22.23	1-3/16	30.16
D	1-1/2	38.1	1-3/4	44.45	2	50.8	2-1/2	63.5	2-3/4	69.85

### ▶ AQTC-1200-6~AQTC-1748-6

#### KNURLING, FACING & TURNING TOOL- HOLDER

For turning and facing, as well as knurling

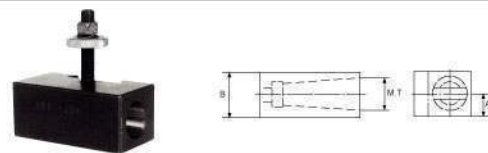


Specification	AQTC-1200-6		AQTC-1015-6		AQTC-1318-6		AQTC-1420-6		AQTC-1748-6	
Model	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
A	7/8	22.22	1	25.4	1-3/16	30.16	1-7/16	36.51	1-7/8	47.62
B	2-1/2	63.5	2-5/8	66.67	3-1/8	79.37	3-3/4	95.25	4-1/2	114.3
C	1-9/16	39.68	1-3/4	44.45	2	50.8	2-1/2	63.5	3-1/8	79.37
E	1/2	12.7	5/8	15.87	3/4	19.05	1	25.4	1-1/4	31.75
E1	3/8	9.53	1/2	12.7	1/2	12.7	3/4	19.05	1	25.4

### ▶ AQTC-1200-4~AQTC-1420-5

#### MORSE TAPER TOOL HOLDER

Drills with carriage by using power feed instead of tailstock



Specification	AQTC-1200-4		AQTC-1015-4		AQTC-1318-4		AQTC-1420-4		AQTC-1200-5		AQTC-1015-5		AQTC-1318-5		AQTC-1420-5	
Model	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
A	3/4	19.5	7/8	22.225	1	25.4	1-1/4	31.75	3/4	19.05	7/8	22.22	1-1/16	26.98	1-3/16	30.16
B	1-1/2	38.1	1-3/4	44.45	2	50.8	2-1/2	63.5	1-1/2	38.1	1-3/4	44.45	2-1/8	53.97	2-3/8	60.32
M.T	2"		2"		3"		3"		3"		3"		4"		4"	





## DRILL CHUCKS

▶ 3300-1001~1007 ▶ 3300-1011~1018

CHINA



### H.D.YAMA PRECISION GRADE KEYLESS DRILL CHUCKS

- Tolerance 0.08mm (0.0019")
- All components are the same as "M" & "P" Grade keyless drill chucks.
- Compatible with drilling machines, milling machines, lathes and woodworking machines.

CODE No.	Mfgr No.	Capacity	Mounting	AOL	O.D.	Net Weight
3300-1001	J0106	0.5-6 mm	B10	72 mm	34 mm	0.32 Kgs
3300-1002	J0108	0.5-8 mm	B12	82 mm	42 mm	0.50 Kgs
3300-1003	J0110	1-10 mm	B12	88 mm	44 mm	0.70 Kgs
3300-1004	J0113	1-13 mm	B16	100 mm	49 mm	0.96 Kgs
3300-1005	J0116	3-16 mm	B16	100 mm	54 mm	1.24 Kgs
3300-1006	J0116A	3-16 mm	B18	100 mm	54 mm	1.24 Kgs
3300-1007	J0120	5-20 mm	B22	125 mm	60 mm	1.70 Kgs

CODE No.	Mfgr No.	Capacity	Mounting	AOL	O.D.	Net Weight
3300-1011	J0206	1/64"-1/4"	JT1	72 mm	34 mm	0.32 Kgs
3300-1012	J0208	1/64"-5/16"	JT2	82 mm	42 mm	0.50 Kgs
3300-1013	J0210	1/32"-3/8"	JT2	88 mm	44 mm	0.70 Kgs
3300-1014	J0213	1/32"-1/2"	JT6	100 mm	49 mm	0.96 Kgs
3300-1015	J0213A	1/32"-1/2"	JT33	100 mm	49 mm	0.96 Kgs
3300-1016	J0216	1/8"-5/8"	JT3	100 mm	54 mm	1.24 Kgs
3300-1017	J0216A	1/8"-5/8"	JT6	100 mm	54 mm	1.24 Kgs
3300-1018	J0220	3/16"-3/4"	JT3	125 mm	60 mm	1.70 Kgs



## BALL BEARING

▶ 3000-0001~1006 ▶ 3000-1001~1006

CHINA

### HEAVY DUTY BALL BEARING DRILL CHUCK WITH KEY

- Specially designed for Heavy Duty drilling applications, on production drilling machines, milling machines, lathes, milling & drilling machines and radial drill.
- The ball thrust bearing reduces friction in the chuck's closing mechanism, operator can apply more gripping torque and power on the twist drill shank.
- The NUTS and JAWS made of AISI-E52100 Bearing steel, and heat-treated to provide chucks durable precision.
- The internal taper is precisely grounded.
- Each chuck is carefully inspected by Standard two test bar, runout-Concentricity deviation is less than 0.08mm.



A-Type



B-Type



SANTIN FINISL

BLACK STLIP

CODE No.	Mfgr No.	Capacity	Mounting Tap	Net Weight	Torque
3000-0001	JP216	0.5-6.5 mm	B10	0.5 kgs	50 kgf
3000-0002	JP2210	0.5-10 mm	B12	0.39 kgs	100 kgf
3000-0003	JP2113	0.5-13 mm	B16	0.85 kgs	210 kgf
3000-0004	JP2116	1.0-16 mm	B18	1.0 kgs	260 kgf
3000-0005	JP2119	3-19 mm	B22	2.15 kgs	300 kgf
3000-0006	JP2125	5-25 mm	B24	4.1 kgs	400 kgf

CODE No.	Mfgr No.	Capacity	Mounting Tap	Net Weight	Torque
3000-1001	JP216	1/64-1/4"	JT1	0.441 Lbs	50 kgf
3000-1002	JP2210	1/64-3/8"	JT2	0.860 Lbs	100 kgf
3000-1003	JP2213	1/64-1/2"	JT6 or JT33	1.873 Lbs	210 kgf
3000-1004	JP2216	1/32-5/8"	JT3	2.204 Lbs	260 kgf
3000-1005	JP2219	1/8-3/4"	JT4	4.739 Lbs	300 kgf
3000-1006	JP2225	3/16-1.0"	JT5	9.036 Lbs	400 kgf



## DRILL CHUCKS

CHINA

### HEAVY DUTY DRILL CHUCKS WITH KEY

- Body made of JIS-S45C or SAE-1045 High carbon steel-Hardness-HRC35-45.
- Shell made of JIS-S20C or SAE-1020 carbon steel-Hardness-HRC36-40
- Jaw made JIS-S45C or SAE-1045 high carbon steel hardness-HRC-45-49
- Nut made of JIS-SCr4 or SAE-5140 Chrome Vanadium steel, Hardness-5HRC56-58
- For all drilling machines, milling machines and lathes.
- Each chuck is carefully inspected by two test bar, Concentricity deviation is less than 0.15mm.

### ▶ 3000-0011~0020



A-Type

CODE No.	Mfgr No.	Capacity	Mounting Tap	Net Weight	Torque
3000-0011	ZW216	0.6-6 mm	B10	0.125 kgs	45 Kgf
3000-0012	ZW2210	10-10 mm	B12	0.335 kgs	75 Kgf
3000-0013	ZW2213	1.0-13 mm	B16	0.625 kgs	85 Kgf
3000-0014	ZW2516A	3.0-16 mm	B16	0.625 kgs	250 Kgf
3000-0015	ZW2516A	3.0-16 mm	B18	0.625 kgs	250 Kgf
3000-0016	ZW2116	1-16 mm	B16	0.650 kgs	250 Kgf
3000-0017	ZW2116A	1-16 mm	B18	0.650 kgs	250 Kgf
3000-0018	ZW2120	5-20 mm	B22	0.140 kgs	300 Kgf
3000-0019	ZW2125	5-25 mm	B24	3.800 kgs	380 Kgf
3000-0020	ZW2125A	5-25 mm	B22	3.800 kgs	380 Kgf

### ▶ 3000-2001~2003



B-Type

CODE No.	Mfgr No.	Capacity	Mounting Tap	Net Weight	Torque
3000-2001	J3110	10 mm-3/8"	3/8"-27 Unf	0.20 Kgs	75 Kgf
3000-2002	J3110A	10 mm-3/8"	1/2"-20 Unf	0.39 Kgs	75 Kgf
3000-2003	J3113	13 mm-1/2"	1/2"-20 Unf	0.85 Kgs	85 Kgf

### ▶ 3000-1011~1022



C-Type

CODE No.	Mfgr No.	Capacity	Mounting Tap	Net Weight	Torque
3000-1011	ZW226	1/64-1/4"	JT1	0.125 kgs	45 Kgf
3000-1012	ZW2210	1/32-3/8"	JT2	0.335 kgs	75 Kgf
3000-1013	ZW2213	1/32-1/2"	JT6	0.625 kgs	85 Kgf
3000-1014	ZW2213A	1/32-1/2"	JT33	0.625 kgs	250 Kgf
3000-1015	ZW2616	1/8-5/8"	JJT3	0.625 kgs	250 Kgf
3000-1016	ZW2616A	1/8-5/8"	JT6	0.625 kgs	250 Kgf
3000-1017	ZW2616B	1/32-5/8"	JT33	0.650 kgs	250 Kgf
3000-1018	ZW2216	1/32-5/8"	JT33	0.650 kgs	250 Kgf
3000-1019	ZW2119	1/32-5/8"	JT3	1.400 kgs	300 Kgf
3000-1020	ZW2119A	1/32-5/8"	JT4	1.400 kgs	300 Kgf
3000-1021	ZW2125	3/16-1"	JT4	3.800 kgs	380 Kgf
3000-1022	ZW2125A	3/16-1"	JT4	3.800 kgs	380 Kgf

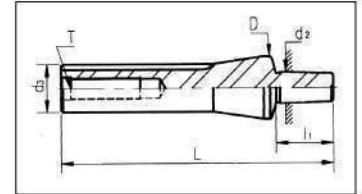
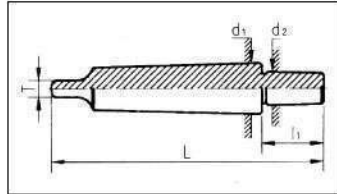


## PRECISION CHUCK ARBOR

▶ 3200-0216~3200-0605

CHINA

Made of carbon steel SC45, hardened and precision ground hardness 56° degree, concentricity-0.005 mm, roundness-0.005 mm



DIN 238 B-Taper		*Straight Shank		*Jacob Taper	
CODE No.	MT# X Taper	CODE No.	DI $\varnothing$ X Taper	CODE No.	MT# X Taper
3200-0216	2 X B16	3200-1306	1/2" X JT6	3200-0203	2 X JT3
3200-0218	2 X B18	3200-1303	1/2" X JT3	3200-0204	2 X JT4
3200-0316	3 X B16	3200-1333	1/2" X JT33	3200-0302	3 X JT2
3200-0318	3 X B18	3200-1302	1/2" X JT2	3200-0306	3 X JT6
3200-0322	3 X B22	3200-1304	1/2" X JT4	3200-0304	3 X JT4
3200-0324	3 X B24	3200-1306	1/2" X JT6	3200-0305	3 X JT5
3200-0416	4 X B16	3200-1502	5/8" X JT2	3200-0406	4 X JT6
3200-0418	4 X B18	3200-1503	5/8" X JT3	3200-0403	4 X JT3
3200-0422	4 X B22	3200-1506	5/8" X JT33	3200-0404	4 X JT4
3200-0424	4 X B24	3200-1533	5/8" X JT3	3200-0506	5 X JT6
3200-0518	5 X B18	3200-1503	5/8" X JT4	3200-0503	5 X JT3
3200-0522	5 X B22	3200-1504	3/4" X JT6	3200-0504	5 X JT4
3200-0524	5 X B24	3200-1906	3/4" X JT3	3200-0505	5 X JT5
<b>CODE No.</b>	<b>R8 X Taper</b>	3200-1903	3/4" X JT4	3200-0603	6 X JT3
R8 X JT33	R8 X JT33	3200-1904	3/4" X JT33	3200-0604	6 X JT4
R8 X JT6	R8 X JT6	<b>CODE No.</b>	<b>1A<math>\varnothing</math> X Taper</b>	3200-0605	6 X JT6
R8 X JT3	R8 X JT3	3200-2005	20 MM X JT5	3200-0605	6 X JT5
R8 X JT2	R8 X JT2	3200-3206	32 MM X JT6		



## MORSE TAPER DRILL SLEEVES-DIN 2187

▶ 3210-0201~3210-0605

CHINA

All sleeves made of carbon steel with hardness 56° HRC, outside and inside taper are precision ground. MTA-tang Concentricity-0.005 mm, roundness-0.005 mm



CODE No.	MT# (Outside X Inside)	Net Weight	CODE No.	MT# (Outside X Inside)	Net Weight
3210-0201	2 X 1	0.1 kgs	3210-0502	5 X 2	1.4 kgs
3210-0301	3 X 1	0.2 kgs	3210-0503	5 X 3	1.2 kgs
3210-0302	3 X 2	0.2 kgs	3210-0504	5 X 4	1.0 kgs
3210-0401	4 X 1	0.6 kgs	3210-0602	6 X 2	3.9 kgs
3210-0402	4 X 2	0.5 kgs	3210-0603	6 X 3	3.8 kgs
3210-0403	4 X 3	0.4 kgs	3210-0604	6 X 4	3.4 kgs
3210-0501	5 X 1	1.6 kgs	3210-0605	6 X 5	2.5 kgs



## EXTENDED LONG SLEEVES-DIN 2185

▶ 3211-0101~3211-0605

CHINA

All arbors made of carbon steel with hardened-hardness HRC 56° degree and inside and outside taper precision ground, concentricity-0.0005 mm roundness-0.005 mm.



CODE No.	OD Taper x ID Taper	CODE No.	OD Taper x ID Taper	CODE No.	OD Taper x ID Taper
3211-0101	1 x 1	3211-0303	3 x 3	3211-0501	5 x 1
3211-0102	1 x 2	3211-0304	3 x 4	3211-0502	5 x 2
3211-0201	2 x 1	3211-0401	4 x 1	3211-0503	5 x 3
3211-0202	2 x 2	3211-0402	4 x 2	3211-0504	5 x 4
3211-0203	2 x 3	3211-0403	4 x 3	3211-0505	5 x 5
3211-0301	3 x 1	3211-0404	4 x 4	3211-0506	5 x 6
3211-0302	3 x 2	3211-0405	4 x 5	3211-0605	6 x 5

## HEAVY DUTY MORSE TAPER TAPPING ATTACHMENT WITH COLLET

TAIWAN

▶ 4018-3303~4018-33-(d)



▲ 4018-33-(d)L



▲ 4018-33



▲ 4018-33-(d)L



▲ 4018-33-d

CODE No.			Kg
4018-3303	MT3	D33-M6,8,10,12,14,16	11.2
4018-3304	MT4	D33-MT2,3	11.5
4018-3305	MT5	D33-J6 (13 m/m)	12.5

CODE No.		Kg
4018-33-(d)L	M-8,10,12,14,16,18,20,24,27,30,33 U- $\frac{5}{16}$ , $\frac{3}{8}$ , $\frac{7}{16}$ , $\frac{1}{2}$ , $\frac{9}{16}$ , $\frac{5}{8}$ , $\frac{3}{4}$ , $\frac{7}{8}$ ,1, $1\frac{1}{8}$ , $1\frac{1}{4}$ P- $\frac{1}{8}$ , $\frac{1}{4}$ , $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{5}{8}$ , $\frac{3}{4}$ ,1	0.6

CODE No.		Kg
4018-33-(d)L	M-8L,10L,12L,14L,16L,18L,20L,24L,27L, 30L,33L U- $\frac{5}{16}$ L, $\frac{3}{8}$ L, $\frac{7}{16}$ L, $\frac{1}{2}$ L, $\frac{9}{16}$ L, $\frac{5}{8}$ L, $\frac{3}{4}$ L, $\frac{7}{8}$ L,1L, $1\frac{1}{8}$ L, $1\frac{1}{4}$ L P- $\frac{1}{8}$ L, $\frac{1}{4}$ L, $\frac{3}{8}$ L, $\frac{1}{2}$ L, $\frac{5}{8}$ L, $\frac{3}{4}$ L,1L	1.5

CODE No.		Kg
4018-33	JTA6 (13 m/m)	1.5
4018-33-(d)	MT1, MT2, MT3, MT4	0.7~0.9

## TAPPING ATTACHMENT FOR AVERAGE DRILLING MACHINES

TAIWAN

▶ 3345-1301~3345-1306

- Features: Two-stage gear clutch device with clockwise and counter-clockwise rotation makes operation smooth and minimize taps damage.



▲ 3345-1301~3345-1304



▲ 3345-1305~3345-1306

A : For drill presses with Morse Taper Hole.

CODE No.	Capacity	Shank	Speed ratio	Net weight	Box size(mm)	HP requirement for drill
3345-1301	3~8 mm	MT#2	1-1	1.8 kg	90 x 90 x 240	1/3 HP
3345-1302	5~10 mm	MT#2	1-1	2.3 kg	100 x 100 x 260	1/3 HP
3345-1303	6~14 mm	MT#3	1-1	4.5 kg	125 x 125 x 300	1/2 HP
3345-1304	12~25 mm	MT#3	4-1	6 kg	160 x 160 x 360	1/2 HP

B : For drill presses with drill chuck capacity 13mm and above.

CODE No.	Capacity	Shank	Speed ratio	Net weight	Box size(mm)	HP requirement for drill
3345-1305	3~8 mm	1/2"	1-1	1.5	90 x 90 x 190	1/4 HP
3345-1306	5~10 mm	1/2"	1-1	2	100 x 100 x 210	1/4 HP



## REVERSING TAPPING ATTACHMENT

CHINA

▶ 3345-1307~3345-1320

- Pre-selective torque drive-prevents tap breakage.
- Sensitive clutch built in as called overload protection.
- Planetary gear-1.75 reverse ratio
- Axial float ensure smooth tapping.
- Cushion drive eliminates cross-threading.



CODE No.	Tapping Range	Capacity	Jaboc Taper	DIN Taper	Net Weight
3345-1307	M2-M7	2.5-6.5 mm	JT #33 / JT6	B10	0.98 kgs
3345-1312	M5-M12	3.5-10 mm	JT #33 / JT6	B10 / B16	0.98 kgs
3345-1320	M8-M20	6.3-14 mm	JT #6	B16	2 kgs

## ECONOMIC BORING HEADS

GRADUATION SCALE : 0.001" ~ 0.025 mm



▶ 4000-E050~4000-E101



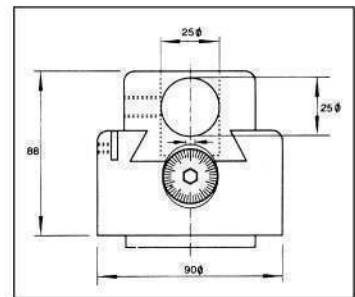
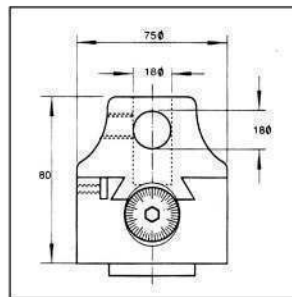
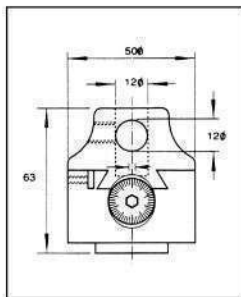
▲ 4000-E050



▲ 4000-E075



▲ 4000-E100



CODE No.	Body Size	Over Length	Boring Bar	Cross Holeø	Offset	N.W.	Graduation	Connect Thread
4000-E050	50 mm	60 mm	12 mm	12 mm	15 mm	0.6 kgs	0.001 / 0-50	7/8" x 20TPI
4000-E051	2"	2-7/16"	1/2"	1/2"	5/8"	1.32 lbs	0.001 / 0-50	7/8" x 20TPI
4000-E075	75 mm	80 mm	18 mm	18 mm	25 mm	2 kgs	0.001 / 0-50	1-1/2" x 18TPI
4000-E076	3"	3-5/32"	3/4"	3/4"	1"	4.41 lbs	0.001 / 0-100	1-1/2" x 18TPI
4000-E100	100 mm	90 mm	25 mm	25 mm	25 mm	4 kgs	0.001 / 0-100	1-1/2" x 18TPI
4000-E101	4"	3-1/2"	1"	1"	1"	8.82 lbs	0.001 / 0-100	1-1/2" x 18TPI

## BORING HEAD SHANKS FOR 4000-E050~4000-E101



▶ 4000-0001~4000-0021

CODE No.	Taper	Mounting Threads
4000-0001	BT #40	M16 x P2.0
4000-0002	BT #50	M24 x P3.0
4000-0003	NT #30	1/2" x 12UNC
4000-0004	NT #30	M12 x P1.75
4000-0005	NT #40	5/8" x 11UNC
4000-0006	NT #40	M16 x P2.0
4000-0007	NT #50	1" x 8UNC
4000-0008	NT #50	M24 x P3.0
4000-0021	MT #2	3/8" x 16UNC
4000-0022	MT #2	M10 x P1.5
4000-0009	MT #3	1/2" x 12UNC
4000-0010	MT #3	M12 x P1.75
4000-0011	MT #4	5/8" x 11UNC
4000-0012	MT #4	M16 x P2.0
4000-0013	MT #5	1" x 8 UNC
4000-0014	MT #5	M24 x P3.0
4000-0023	MT #2	Tanged
4000-0015	MT #3	Tanged
4000-0016	MT #4	Tanged
4000-0017	MT #5	Tanged
4000-0018	R8	7/16" x 20UNC



CODE No.	Straight Shanks Sereis
4000-0019	20 mm dia. x 60 mm Length
4000-0020	25 mm dia. x 60 mm Length
4000-0021	32 mm dia. x 60 mm Length

## BORING HEAD SHANKS

TAIWAN

### ▶ 4000-0200



**Contains**

- 1 x Master boring head -2"/50mm .
- 1 x Boring head shank . (Suitable size-)
- 3 x Boring bars
- 1 x INDEXABLE Boring Bar
- 1 x HSS toolbit-1/4" x 30mmL
- 1 x fitted wooden box

### ▶ 4000-0500



**Contains**

- 1 x master boring head-10-240mm
- 3 x indexable insert boring bar
- 3 x boring bar
- 1 x sleeve-20x10x50mm
- 1 x HSS toolbit-1/4" x 30L
- 1 x plastic fitted box

### ▶ 4000-0300



**Contains**

- 1 x Mast boring head -3"/75mm
- 1 x Boring head shank (suitable size)
- 2 x Indexable insert Boring bars
- 5 pcs. Boring bar.
- 1 x HSS toolbit -1/4" x 30L
- 1 x fitted Plastic box
- 1 x suitable size sleeve for small Boring bar

### ▶ 4000-0400



**Contains**

- 1 x master boring head-Cap-10-250mm
- 2 x indexable insert boring bar
- 5 x boring bar
- 1 x suitable size sleeve for small Boring bar
- 1 x HSS toolbit 1/4" x 30L
- 1 sleeve
- 1 x suitable shank
- 1 x Plastic fitted box

## UNIVERSAL BORING & FACING MASTER HEAD

TAIWAN

### ▶ 4000-5950~4000-5965



CODE No.	Head Size LxW	Tool Cap.	Cross Hole Dia.	Max. Speed	Offset	Boring Min / Max	Feed/Rapid Feed
4000-5950	78 x 58 mm	18 mm	18 mm		15 mm	5-250 mm	
4000-5960	84 x 98 mm	20 mm	20 mm	1000 rpm	50 mm	5-280 mm	0.05 / 2.0 mm/rev.
4000-5965	148 x 153 mm	30 mm	30 mm	500 rpm	100 mm	12-500 mm	0.05 / 0.2 mm/rev.



## UNIVERSAL BORING & FACING HEADS

CHINA

### ▶ 2000-212A~2000-214A

- The Heads has mechanism of manual fine feed. Rapid adjustment with Overload protection. And radial automatic feed.
- Each set contains
  - Fitted wooden box.
  - Main broing & Facing head.
  - Boring bar.
  - Sleeves.
  - Key handle.



SPECIFICATIONS	2000-212A	2000-213A	2000-214A
Slide Travel	15 mm	25 mm	50 mm
Facing Diameter	150 mm	350 mm	450 mm
Boring Diameter	150 mm	350 mm	450 mm
Fine Feed Per Graduation		0.005 mm	
Manual Feed Per Graduation	2 mm	3 mm	3 mm
Self-Acting Feed Per Revolution	0.02 / 0.04 / 0.06 / 0.08 / 0.10 / 0.12 mm	0.03 / 0.06 / 0.09 / 0.12 / 0.15 / 0.18 mm	
Slide hole Diameter	90 mm	120 mm	168 mm
Soliding Block Width	70 mm	90 mm	90 mm
Bushing inner Dia.	4 / 8 / 12 mm	8 / 10 / 12 / 14 mm	8 / 10 / 12 / 14 mm
Head height	87.5 mm	118 mm	118 mm
Net Weight	2.9 kgs	6.1 kgs	7.8 kgs

### APPLICATION EXAMPLES

<p>Bore small hold</p>	<p>Bore step hold</p>	<p>Bore large hold</p>
<p>Bore internal &amp; external Slot</p>	<p>Bore the face</p>	<p>Counterbore step hole</p>
<p>Bore inside &amp; outside taper surface</p>	<p>Counterbore the face</p>	<p>Bore the lage face</p>

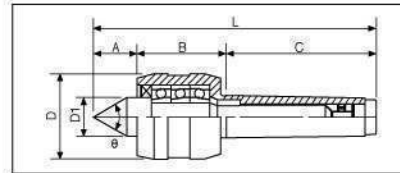
## SUPER HIGH SPEED WATER PROOF LIVE-SUPER HIGH SPEED TYPE CENTER-ACCURACY-0.003 mm-60 deg. POINT ANGLE.

TAIWAN

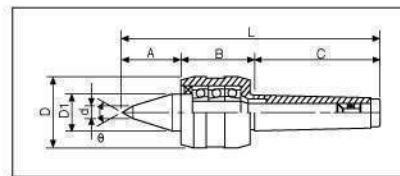
### ▶ 3206-CPA3~3206-CPB5



▲ 3206-CPA series



▲ 3206-CPB series



CODE No.	Morse Taper	A	B	C	D	D1	d	L	Max. Rpm	Loading Weight/Rpm
3206-CPA3	MT #3	38 mm	58 mm	86 mm	48 mm	30 mm		182 mm	10000 rpm	320 kgs / 200 rpm
3206-CPA4	MT #4	45 mm	65 mm	108 mm	62 mm	32 mm		215 mm	10000 rpm	500 kgs / 200 rpm
3206-CPA5	MT #5	50 mm	70 mm	136 mm	72 mm	40 mm		256 mm	8000 rpm	1000 kgs / 200 rpm
3206-CPB3	MT #3	48 mm	58 mm	86 mm	48 mm	30 mm	10 mm	192 mm	10000 rpm	320 kgs / 200 rpm
3206-CPB4	MT #4	52 mm	65 mm	108 mm	62 mm	32 mm	12 mm	225 mm	10000 rpm	500 kgs / 200 rpm
3206-CPB5	MT #5	60 mm	70 mm	136 mm	72 mm	40 mm	14 mm	266 mm	8000 rpm	1000 kgs / 200 rpm

## LIVE CENTER-HIGH PERFORMANCE

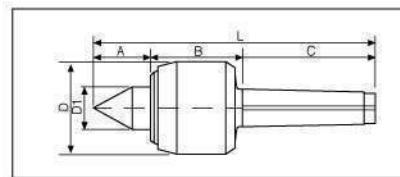
ACCURACY-0.003 mm-60 deg. POINT ANGLE.

TAIWAN

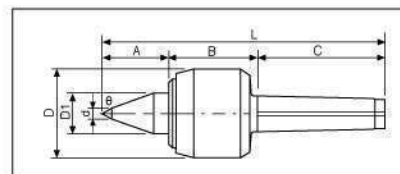
### ▶ 3206-CKA2~3206-CKB5



▲ 3206-CKA series



▲ 3206-CKB series



CODE No.	Morse Taper	A	B	C	D	D1	d	L	Max. Rpm	Loading Weight/Rpm
3206-CKA2	MT # 2	20 mm	38 mm	69 mm	32 mm	13 mm		127 mm	6000 rpm	200 kgs / 100 rpm
3206-CKA3	MT #3	34 mm	61 mm	86 mm	58 mm	25 mm		181 mm	5200 rpm	650 kgs / 100 rpm
3206-CKA4	MT #4	44 mm	72 mm	109 mm	76 mm	35 mm		225 mm	5000 rpm	1250 kgs / 200 rpm
3206-CKA5	MT #5	60 mm	91 mm	136 mm	95 mm	45 mm		287 mm	3500 rpm	2350 kgs / 200 rpm
3206-CKA6	MT #6	64 mm	106 mm	190 mm	120 mm	58 mm		360 mm	2300 rpm	3800 kgs / 200 rpm
3206-CKB3	MT #3	45 mm	61 mm	86 mm	58 mm	25 mm	10 mm	192 mm	5200 rpm	650 kgs / 100 rpm
3206-CKB4	MT #4	55 mm	72 mm	109 mm	76 mm	35 mm	12 mm	236 mm	5000 rpm	1250 kgs / 200 rpm
3206-CKB5	MT #5	70 mm	91 mm	136 mm	95 mm	45 mm	14 mm	297 mm	3500 rpm	2350 kgs / 200 rpm



## HEAVY LOADING LIVE CENTER-HEAVY LOADING TYPE



ACCURACY-0.003 mm-60 deg. POINT ANGLE

▶ 3206-CFA3~3206-CFP5



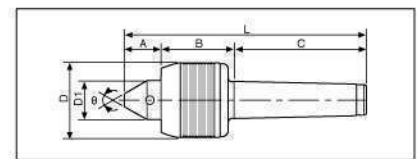
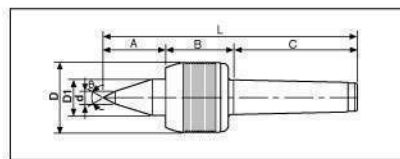
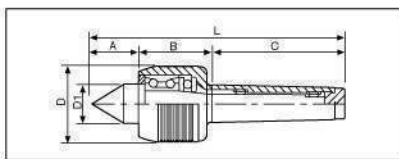
▲ 3206-CFA series



▲ 3206-CFB series



▲ 3206-CFP series



CODE No.	Morse Taper	A	B	C	D	D1	d	L	Max. Rpm	Loading Weight/Rpm
3206-CFA3	MT #3	38 mm	50 mm	86 mm	53 mm	30 mm		174 mm	6000 rpm	650 kgs / 100 rpm
3206-CFA4	MT #4	45 mm	60 mm	108 mm	68 mm	32 mm		213 mm	5500 rpm	1100 kgs / 100 rpm
3206-CFA5	MT #5	52 mm	70 mm	136 mm	87 mm	40 mm		258 mm	4000 rpm	2200 kgs / 70 rpm
3206-CFB3	MT #3	52 mm	50 mm	86 mm	53 mm	25 mm	10 mm	188 mm	6000 rpm	650 kgs / 100 rpm
3206-CFB4	MT #4	55 mm	60 mm	108 mm	68 mm	32 mm	12 mm	223 mm	5500 rpm	1100 kgs / 100 rpm
3206-CFB5	MT #5	67 mm	70 mm	136 mm	87 mm	40 mm	14 mm	273 mm	4000 rpm	2200 kgs / 70 rpm
3206-CFP4	MT #4	29 mm	64 mm	108 mm	68 mm	32 mm		201 mm	5500 rpm	1100 kgs / 100 rpm
3206-CFP5	MT #5	37 mm	70 mm	136 mm	87 mm	40 mm		243 mm	4000 rpm	2200 kgs / 70 rpm

## ROLLING CENTER-ACCURACY-0.003 mm



▶ 3206-NKA2~3206-NKS2



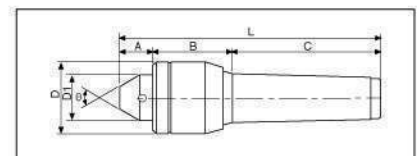
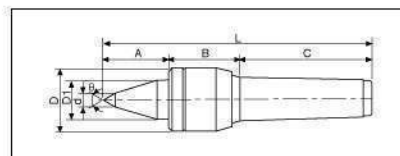
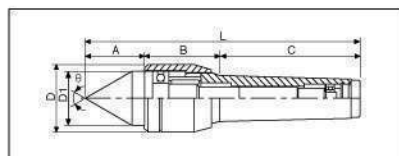
▲ 3206-NKA series



▲ 3206-NKB series



▲ 3206-NKS series



CODE No.	Morse Taper	A	B	C	D	D1	d	d1	L	Max. Rpm	Loading Weight/Rpm
3206-NKA2	MT #2	28 mm	35 mm	69 mm	32 mm	23 mm			132 mm	5000 rpm	200 kgs / 100 rpm
3206-NKA3	MT #3	36 mm	44 mm	86 mm	41 mm	35 mm		12 mm	166 mm	3500 rpm	400 kgs / 100 rpm
3206-NKA4	MT #4	41 mm	51 mm	108 mm	47 mm	40 mm		12 mm	200 mm	3000 rpm	600 kgs / 70 rpm
3206-NKA5	MT #5	54 mm	72 mm	136 mm	65 mm	52 mm	10 mm	18 mm	262 mm	2000 rpm	1100 kgs / 70 rpm
3206-NKB3	MT #3	46 mm	44 mm	86 mm	41 mm	25 mm	12 mm	12 mm	176 mm	3500 rpm	400 kgs / 100 rpm
3206-NKB4	MT #4	55 mm	51 mm	108 mm	47 mm	32 mm		12 mm	214 mm	3000 rpm	600 kgs / 70 rpm
3206-NKS2	MT #2	22 mm	36 mm	69 mm	32 mm	25 mm			127 mm	5000 rpm	200 kgs / 100 rpm
3206-NKS3	MT #3	23 mm	44 mm	86 mm	41 mm	30 mm			153 mm	3500 rpm	400 kgs / 100 rpm
3206-NKS4	MT #4	23 mm	51 mm	108 mm	47 mm	32 mm			182 mm	3000 rpm	600 kgs / 70 rpm

## HIGH SPEED-WATER PROOF-HIGH SPEED

TAIWAN

ACCURACY-0.003 mm-60 deg. POINT ANGLE

▶ 3206-CHA3~3206-CHBT5



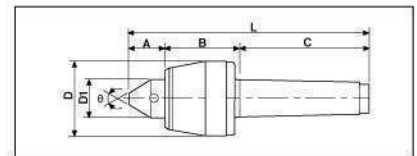
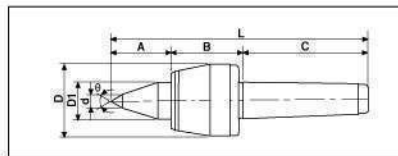
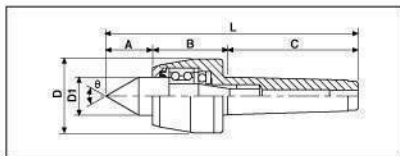
▲ 3206-CHA series



▲ 3206-CHB series



▲ 3206-CSO series



CODE No.	Morse Taper	A	B	C	D	D1	d	d1	L	Max. Rpm	Loading Weight/Rpm
3206-CHA3	MT #3	39 mm	55 mm	86 mm	53 mm	30 mm		12 mm	180 mm	5000 rpm	480 kgs / 100 rpm
3206-CHA4	MT #4	42 mm	62 mm	108 mm	63 mm	32 mm		12 mm	208 mm	4500 rpm	800 kgs / 70 rpm
3206-CHA5	MT #5	49 mm	71 mm	136 mm	83 mm	40 mm		18 mm	256 mm	3500 rpm	1600 kgs / 70 rpm
3206-CHA6	MT #6	80 mm	110 mm	189 mm	128 mm	70 mm			379 mm	1500 rpm	3750 kgs / 70 rpm
3206-CHB3	MT #3	45 mm	55 mm	86 mm	53 mm	30 mm	10 mm	12 mm	186 mm	5000 rpm	480 kgs / 100 rpm
3206-CHB4	MT #4	52 mm	62 mm	108 mm	63 mm	32 mm	12 mm	12 mm	218 mm	4500 rpm	800 kgs / 70 rpm
3206-CHB5	MT #5	59 mm	71 mm	136 mm	83 mm	40 mm	14 mm	18 mm	266 mm	3500 rpm	1600 kgs / 70 rpm
3206-CSO3	MT #3	28 mm	55 mm	86 mm	53 mm	30 mm			169 mm	5000 rpm	480 kgs / 100 rpm
3206-CSO4	MT #4	30 mm	62 mm	108 mm	63 mm	32 mm			196 mm	4500 rpm	800 kgs / 100 rpm
3206-CS4P	MT #4	30 mm	62 mm	108 mm	63 mm	32 mm			196 mm	4500 rpm	800 kgs / 70 rpm
3206-CS5P	MT #5	34 mm	71 mm	136 mm	83 mm	40 mm			237 mm	3500 rpm	1600 kgs / 70 rpm
3206-CHAT4	MT #4	42 mm	62 mm	108 mm	60 mm	32 mm		12 mm	208 mm	4500 rpm	800 kgs / 70 rpm
3206-CHAT5	MT #5	49 mm	71 mm	136 mm	80 mm	40 mm		18 mm	256 mm	3500 rpm	1600 kgs / 70 rpm
3206-CHBT4	MT #4	52 mm	62 mm	108 mm	60 mm	32 mm	12 mm	12 mm	218 mm	4500 rpm	800 kgs / 70 rpm
3206-CHBT5	MT #5	59 mm	71 mm	136 mm	80 mm	40 mm	14 mm	18 mm	266 mm	3500 rpm	1600 kgs / 70 rpm

## MEDIUM DUTY LIVE CENTERS-MEDIUM-DUTY

TAIWAN

ACCURACY-0.003 mm-60 deg. POINT ANGLE

▶ 3206-NCA04~3206-NCD5



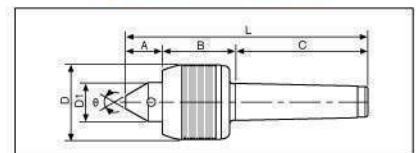
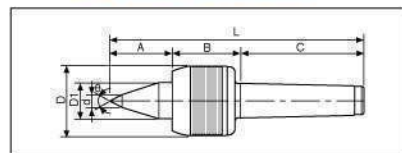
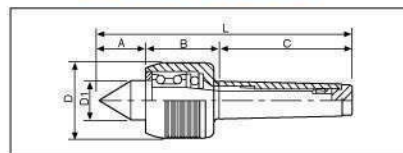
▲ 3206-NCA series



▲ 3206-NCB series



▲ 3206-NCD series



CODE No.	Morse Taper	A	B	C	D	D1	d	L	Max. Rpm	Loading Weight/Rpm
3206-NCA04	MT #4	44 mm	55 mm	108 mm	53 mm	30 mm		207 mm	6500 rpm	650 kgs / 100 rpm
3206-NCA5	MT #5	48 mm	61 mm	136 mm	68 mm	35 mm		245 mm	5000 rpm	1200 kgs / 100 rpm
3206-NCB4	MT #4	52 mm	55 mm	108 mm	53 mm	30 mm	12 mm	215 mm	6500 rpm	650 kgs / 100 rpm
3206-NCB5	MT #5	58 mm	61 mm	136 mm	68 mm	35 mm	14 mm	255 mm	5000 rpm	1200 kgs / 100 rpm
3206-NCD4	MT #4	33 mm	55 mm	108 mm	53 mm	30 mm		196 mm	6500 rpm	650 kgs / 100 rpm
3206-NCD5	MT #5	37 mm	61 mm	136 mm	68 mm	35 mm		234 mm	5000 rpm	1200 kgs / 100 rpm

## SUPER HEAVY LOADING TYPE LIVE CENTER

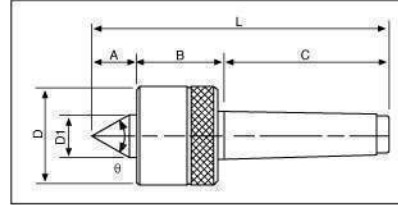
TAIWAN

ACCURACY-MT#5-0.006 mm, MT6/& and MT-80-0.01 mm  
POINT ANGLE-MT#5/6-60 DEGREE. MT#7/MT-80-70 DEGREE.

▶ 3206-SWO5~3206-SWO8



▲ 3206-SWO series



CODE No.	Morse Taper	A	B	C	D	D1	L	Max. Rpm	Loading Weight/Rpm
3206-SWO5	MT #5	52 mm	98 mm	136 mm	98 mm	50 mm	266 mm	1800 rpm	3000 kgs / 100 rpm
3206-SWO6	MT #6	74 mm	116 mm	190 mm	148 mm	70 mm	380 mm	1000 rpm	10000 kgs / 50 rpm
3206-SWO7	MT #7	94 mm	132 mm	260 mm	196 mm	90 mm	486 mm	1000 rpm	18000 kgs / 50 rpm
3206-SWO8	MT #80	94 mm	132 mm	240 mm	196 mm	90 mm	430 mm	1000 rpm	18000 kgs / 50 rpm

## LIGHT DUTY LIVE CENTER

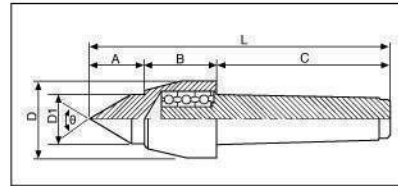
TAIWAN

ACCURACY-0.005 mm-60 deg. POINT ANGLE.

▶ 3206-PC01~3206-PC05



▲ 3206-PC series



CODE No.	Morse Taper	A	B	C	D	D1	L	Max. Rpm	Loading weight/rpm
3206-PC01	MT #1	21 mm	31 mm	56 mm	32 mm	16 mm	108 mm	4500 rpm	20 kgs / 100 rpm
3206-PC02	MT #2	26 mm	37 mm	69 mm	40 mm	22 mm	132 mm	3500 rpm	60 kgs / 100 rpm
3206-PC03	MT #3	32 mm	46 mm	86 mm	45 mm	26 mm	164 mm	3000 rpm	150 kgs / 100 rpm
3206-PC04	MT #4	34 mm	46 mm	108 mm	48 mm	30 mm	188 mm	2500 rpm	300 kgs / 100 rpm
3206-PC05	MT #5	50 mm	62 mm	136 mm	68 mm	45 mm	248 mm	2000 rpm	800 kgs / 70 rpm

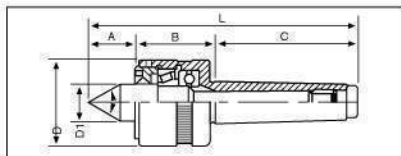
## HIGH SPEED LIVE CENTER

TAIWAN

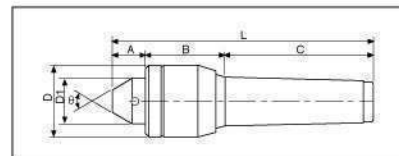
▶ 3206-CRA3~3206-CRB5



▲ 3206-CRA series



▲ 3206-CRB series



CODE No.	Morse Taper	A	B	C	D	D1	d	L	Accuracy	Max. Rpm	Ø	Net Weight
3206-CRA3	MT #3	37 mm	47 mm	86 mm	50 mm	25 mm	-	170 mm	0.003	5000 rpm	60°	1.5 kgs
3206-CRA4	MT #4	45 mm	59 mm	108 mm	65 mm	32 mm	-	212 mm	0.003	4500 rpm	60°	2.5 kgs
3206-CRA5	MT #5	50 mm	62 mm	136 mm	80 mm	40 mm	-	248 mm	0.003	3500 rpm	60°	4.5 kgs
3206-CRA6	MT #6	66 mm	85 mm	189 mm	128 mm	60 mm	-	333 mm	0.008	1500 rpm	60°	16 kgs
3206-CRB3	MT #3	47 mm	47 mm	86 mm	50 mm	25 mm	10 mm	180 mm	0.003	5000 rpm	60°	1.6 kgs
3206-CRB4	MT #4	55 mm	59 mm	108 mm	65 mm	32 mm	12 mm	212 mm	0.003	4500 rpm	60°	2.6 kgs
3206-CRB5	MT #5	60 mm	85 mm	136 mm	80 mm	40 mm	14 mm	248 mm	0.003	3500 rpm	60°	4.6 kgs



## DEAD CENTER-DIN 806

MADE OF CARBON STEEL SC45, HARDENED AND GROUND.  
CONCENTRICITY-0.005 mm, ROUNDNESS-0.005 mm.

CHINA

▶ 3601-3110~3601-4160



CODE No.		MK	Od (mm)	L (mm)	I (mm)	Q (kg)	G (kg)	V (mm)
W/O Carbide	Carbided Tip							
3601-3110	-	1	11	80	26.5	125	0.06	0.003
3601-3120	-	2	17	100	36	325	0.16	0.003
3601-3130	3601-4130	3	23	125	44	650	0.40	0.003
3601-3140	3601-4140	4	30	160	57.5	1000	0.80	0.003
3601-3150	3601-4150	5	42	200	70.5	2500	1.80	0.003
3601-3160	3601-4160	6	60	280	98	5000	5.45	0.003

## DRIVING DEAD CENTER

MATERIAL-SKD TOOL STEEL HARDENESS-HRC62°

TAIWAN

▶ 3600-0016~3600-0032



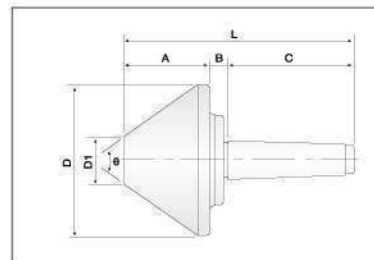
▲ 3600-0016    ▲ 3600-0023    ▲ 3600-0032

CODE No.	Center Shaft Size	Outer Dia	Working Pange	M.T
3600-0016	6ø	16ø	Ø16-Ø25	NO.4
3600-0023	8ø	23ø	Ø23-Ø32	NO.4
3600-0032	8ø	32ø	Ø32-Ø45	NO.4

## BULL NOSE LIVE CENTER

▶ 0810-2063~0810-6306

- HRC 52°
- Concentricity: 0.005 mm
- Roundness: 0.005 mm



TAIWAN

CODE No.	Morse Taper	A	B	C	D	D1	L	Accuracy	Ø	Net Weight
0810-2063	BC 63-MT.2	46 mm	17 mm	69 mm	63 mm	12 mm	132 mm	RPM100=200 kg	60°	0.90 kgs
0810-3063	BC 63-MT.3	46 mm	17 mm	86 mm	63 mm	12 mm	149 mm	RPM100=200 kg	60°	1.00 kgs
0810-3078	BC 78-MT.3	52 mm	18 mm	86 mm	78 mm	15 mm	156 mm	RPM100=400 kg	70°	1.30 kgs
0810-3106	BC106-MT.3	59 mm	16 mm	86 mm	106 mm	25 mm	161 mm	RPM100=500 kg	70°	2.70 kgs
0810-4063	BC 63-MT.4	46 mm	17 mm	108 mm	63 mm	12 mm	171 mm	RPM100=200 kg	60°	1.00 kgs
0810-4078	BC 78-MT.4	52 mm	18 mm	108 mm	78 mm	15 mm	178 mm	RPM100=400 kg	70°	1.45 kgs
0810-4106	BC106-MT.4	59 mm	16 mm	108 mm	106 mm	25 mm	183 mm	RPM100=500 kg	70°	3.00 kgs
0810-4128	BC128-MT.4	73 mm	12 mm	108 mm	128 mm	40 mm	193 mm	RPM100=650 kg	70°	4.80 kgs
0810-4156	BC156-MT.4	88 mm	12 mm	108 mm	156 mm	45 mm	208 mm	RPM100=800 kg	70°	7.60 kgs
0810-4206	BC206-MT.4	98 mm	12 mm	108 mm	206 mm	81 mm	218 mm	RPM100=1300 kg	70°	17.00 kgs
0810-4258	BC258-MT.4	107 mm	13 mm	108 mm	258 mm	92 mm	228 mm	RPM100=2000 kg	80°	27.00 kgs
0810-5128	BC128-MT.5	73 mm	12 mm	136 mm	128 mm	40 mm	221 mm	RPM100=650 kg	70°	5.80 kgs
0810-5156	BC156-MT.5	88 mm	12 mm	136 mm	156 mm	45 mm	236 mm	RPM100=800 kg	70°	8.50 kgs
0810-5206	BC206-MT.5	98 mm	12 mm	136 mm	206 mm	81 mm	246 mm	RPM100=1600 kg	70°	18.00 kgs
0810-5258	BC258-MT.5	107 mm	13 mm	136 mm	258 mm	92 mm	256 mm	RPM100=2200 kg	80°	28.00 kgs
0810-5306	BC306-MT.5	107 mm	30 mm	136 mm	306 mm	120 mm	273 mm	RPM100=3000 kg	90°	37.50 kgs
0810-6206	BC206-MT.6	98 mm	12 mm	190 mm	206 mm	81 mm	300 mm	RPM100=2000 kg	70°	20.60 kgs
0810-6258	BC258-MT.6	107 mm	13 mm	190 mm	258 mm	92 mm	310 mm	RPM100=2500 kg	80°	30.60 kgs
0810-6306	BC306-MT.6	107 mm	30 mm	190 mm	306 mm	120 mm	327 mm	RPM100=3000 kg	90°	40.00 kgs



## COLLETS

### ▶ 7300-1708

#### R8 ROUND COLLET



### ▶ 7300-1705

#### 5C ROUND COLLET



### ▶ 7300-1730

#### 5C EMERGENCY COLLET

3"~25" or 1/8"~1"

STEEL:

1/8" pilot hole, 3-1/8" pins

no pilot hole, 3-1/8" pins

1" extended nose, 1/4" pilot hole, 3-1/8" pins

BRASS:1/16" pilot hole, 3-1/8" pins

NYLON:no pilot hole, 3 nylon spacers



### ▶ 7300-1703

#### MORSE TAPER COLLET



### ▶ 7300-1731

#### OEM COLLET

We Also Accept Your Design Specification According To Your Drawing. We Will Supply Our Sample For Your Confirmation Before Ordering.



### ▶ 7300-1760

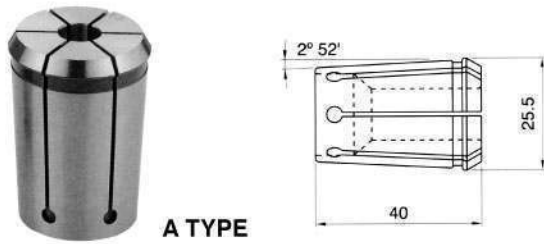
#### TG COLLET



## OZ16 COLLET SYSTEM

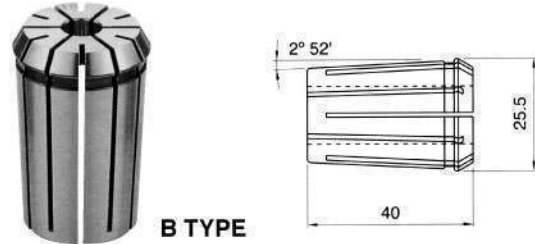
TAIWAN

### ▶ 7001-1601A~7001-1629A



A TYPE

### ▶ 7001-1601B~7001-1629B



B TYPE

#### FORM A (410E)

CODE No.	Size	CODE No.	Size
7001-1601A	Ø 2	7001-1616A	Ø 9.5
7001-1602A	Ø 2.5	7001-1617A	Ø 10
7001-1603A	Ø 3	7001-1618A	Ø 10.5
7001-1604A	Ø 3.5	7001-1619A	Ø 11
7001-1605A	Ø 4	7001-1620A	Ø 11.5
7001-1606A	Ø 4.5	7001-1621A	Ø 12
7001-1607A	Ø 5	7001-1622A	Ø 12.5
7001-1608A	Ø 5.5	7001-1623A	Ø 13
7001-1609A	Ø 6	7001-1624A	Ø 13.5
7001-1610A	Ø 6.5	7001-1625A	Ø 4
7001-1611A	Ø 7	7001-1626A	Ø 14.5
7001-1612A	Ø 7.5	7001-1627A	Ø 15
7001-1613A	Ø 8	7001-1628A	Ø 15.5
7001-1614A	Ø 8.5	7001-1629A	Ø 16
7001-1615A	Ø 9		

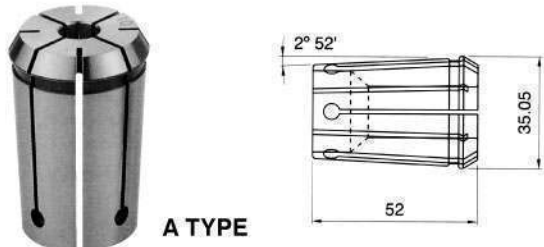
#### FORM B (415E)

CODE No.	Size	CODE No.	Size
7001-1601B	Ø 2	7001-1616B	Ø 9.5
7001-1602B	Ø 2.5	7001-1617B	Ø 10
7001-1603B	Ø 3	7001-1618B	Ø 10.5
7001-1604B	Ø 3.5	7001-1619B	Ø 11
7001-1605B	Ø 4	7001-1620B	Ø 11.5
7001-1606B	Ø 4.5	7001-1621B	Ø 12
7001-1607B	Ø 5	7001-1622B	Ø 12.5
7001-1608B	Ø 5.5	7001-1623B	Ø 13
7001-1609B	Ø 6	7001-1624B	Ø 13.5
7001-1610B	Ø 6.5	7001-1625B	Ø 4
7001-1611B	Ø 7	7001-1626B	Ø 14.5
7001-1612B	Ø 7.5	7001-1627B	Ø 15
7001-1613B	Ø 8	7001-1628B	Ø 15.5
7001-1614B	Ø 8.5	7001-1629B	Ø 16
7001-1615B	Ø 9		

## OZ25 COLLET SYSTEM

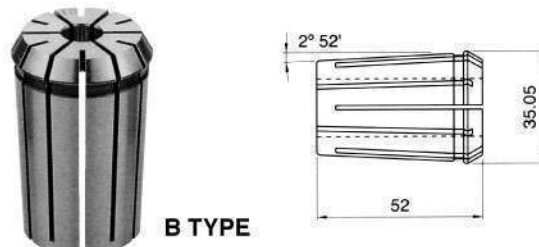
TAIWAN

### ▶ 7001-2501A~7001-2538A



A TYPE

### ▶ 7001-2501B~7001-2523B



B TYPE

#### FORM A (410E)

CODE No.	Size	CODE No.	Size
7001-2501A	Ø 3	7001-2520A	Ø 22
7001-2502A	Ø 4	7001-2521A	Ø 23
7001-2503A	Ø 5	7001-2522A	Ø 24
7001-2504A	Ø 6	7001-2523A	Ø 25
7001-2505A	Ø 7	7001-2524A	Ø 1/8"
7001-2506A	Ø 8	7001-2525A	Ø 3/16"
7001-2507A	Ø 9	7001-2526A	Ø 1/4"
7001-2508A	Ø 10	7001-2527A	Ø 5/16"
7001-2509A	Ø 11	7001-2528A	Ø 3/8"
7001-2510A	Ø 12	7001-2529A	Ø 7/16"
7001-2511A	Ø 13	7001-2530A	Ø 1/2"
7001-2512A	Ø 14	7001-2531A	Ø 9/16"
7001-2513A	Ø 15	7001-2532A	Ø 5/8"
7001-2514A	Ø 16	7001-2533A	Ø 11/16"
7001-2515A	Ø 17	7001-2534A	Ø 3/4"
7001-2516A	Ø 18	7001-2535A	Ø 13/16"
7001-2517A	Ø 19	7001-2536A	Ø 7/8"
7001-2518A	Ø 20	7001-2537A	Ø 15/16"
7001-2519A	Ø 21	7001-2538A	Ø 1"

#### FORM B (415E)

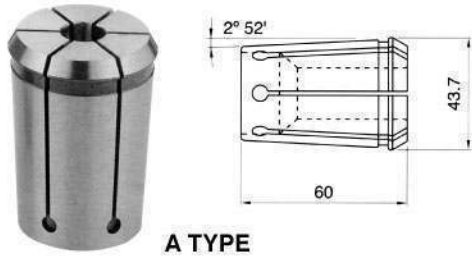
CODE No.	Size	CODE No.	Size
7001-2501B	Ø 3	7001-2513B	Ø 15
7001-2502B	Ø 4	7001-2514B	Ø 16
7001-2503B	Ø 5	7001-2515B	Ø 17
7001-2504B	Ø 6	7001-2516B	Ø 18
7001-2505B	Ø 7	7001-2517B	Ø 19
7001-2506B	Ø 8	7001-2518B	Ø 20
7001-2507B	Ø 9	7001-2519B	Ø 21
7001-2508B	Ø 10	7001-2520B	Ø 22
7001-2509B	Ø 11	7001-2521B	Ø 23
7001-2510B	Ø 12	7001-2522B	Ø 24
7001-2511B	Ø 13	7001-2523B	Ø 25
7001-2512B	Ø 14		

## OZ32 COLLET SYSTEM

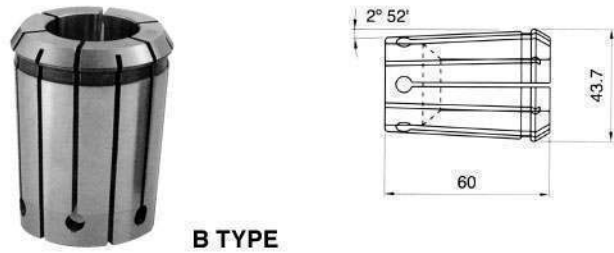
TAIWAN

▶ 7001-3201A~7001-3227A

▶ 7001-3201B~7001-3242B



A TYPE



B TYPE

### FORM A (450E)

CODE No.	Size	CODE No.	Size
7001-3201A	Ø 6	7001-3215A	Ø 20
7001-3202A	Ø 7	7001-3216A	Ø 21
7001-3203A	Ø 8	7001-3217A	Ø 22
7001-3204A	Ø 9	7001-3218A	Ø 23
7001-3205A	Ø 10	7001-3219A	Ø 24
7001-3206A	Ø 11	7001-3220A	Ø 25
7001-3207A	Ø 12	7001-3221A	Ø 26
7001-3208A	Ø 13	7001-3222A	Ø 27
7001-3209A	Ø 14	7001-3223A	Ø 28
7001-3210A	Ø 15	7001-3224A	Ø 29
7001-3211A	Ø 16	7001-3225A	Ø 30
7001-3212A	Ø 17	7001-3226A	Ø 31
7001-3213A	Ø 18	7001-3227A	Ø 32
7001-3214A	Ø 19		

### FORM B (467E) METRIC SIZE

CODE No.	Size	CODE No.	Size
7001-3201B	Ø 6	7001-3215B	Ø 20
7001-3202B	Ø 7	7001-3216B	Ø 21
7001-3203B	Ø 8	7001-3217B	Ø 22
7001-3204B	Ø 9	7001-3218B	Ø 23
7001-3205B	Ø 10	7001-3219B	Ø 24
7001-3206B	Ø 11	7001-3220B	Ø 25
7001-3207B	Ø 12	7001-3221B	Ø 26
7001-3208B	Ø 13	7001-3222B	Ø 27
7001-3209B	Ø 14	7001-3223B	Ø 28
7001-3210B	Ø 15	7001-3224B	Ø 29
7001-3211B	Ø 16	7001-3225B	Ø 30
7001-3212B	Ø 17	7001-3226B	Ø 31
7001-3213B	Ø 18	7001-3227B	Ø 32
7001-3214B	Ø 19		

### FORM B (467E) IMPERIAL SIZE

CODE No.	Size	CODE No.	Size
7001-3228B	Ø 1/4"		
7001-3229B	Ø 5/16"		
7001-3230B	Ø 3/8"		
7001-3231B	Ø 7/16"		
7001-3232B	Ø 1/2"		
7001-3233B	Ø 9/16"		
7001-3234B	Ø 5/8"		
7001-3235B	Ø 11/16"		
7001-3236B	Ø 3/4"		
7001-3237B	Ø 13/16"		
7001-3238B	Ø 7/8"		
7001-3239B	Ø 15/16"		
7001-3240B	Ø 1"		
7001-3241B	Ø 1-1/8"		
7001-3242B	Ø 1-1/4"		

## DIN 6388 OZ32 COLLET CHUCK SETS

TAIWAN

▶ 7100-4260~7100-4295

- Contains: 1 x Main Shank
- 8/15 PCS Collets
- 1 x Wrench
- 1 x Fitted Box



### METRIC COLLET SYSTEM SET

CODE No.	Collet Type	Set Pcs	Net Weight
7100-4260	NT30	8	7 kgs
7100-4261	NT30	15	9 kgs
7100-4262	NT40	8	7.2 kgs
7100-4263	NT40	15	9.2 kgs
7100-4264	NT50	8	9.8 kgs
7100-4265	NT50	15	11.8 kgs
7100-4266	MTB5	8	8 kgs
7100-4267	MTB5	15	10 kgs
7100-4268	BT40	8	7.4 kgs
7100-4269	BT40	15	9.4 kgs
7100-4270	BT50	8	10 kgs
7100-4271	BT50	15	12 kgs
7100-4272	SK40	8	7.2 kgs
7100-4273	SK40	15	9.2 kgs
7100-4274	SK50	8	9.8 kgs
7100-4275	SK50	15	11.8 kgs

### INCH COLLET SYSTEM SET

CODE No.	Collet Type	Set Pcs	Net Weight
7100-4280	NT30	10	7 kgs
7100-4281	NT30	15	9 kgs
7100-4282	NT40	10	7.2 kgs
7100-4283	NT40	15	9.2 kgs
7100-4284	NT50	10	9.8 kgs
7100-4285	NT50	15	11.8 kgs
7100-4286	MTB5	10	8 kgs
7100-4287	MTB5	15	10 kgs
7100-4288	BT40	10	7.4 kgs
7100-4289	BT40	15	9.4 kgs
7100-4290	BT50	10	10 kgs
7100-4291	BT50	15	12 kgs
7100-4292	CAT40	10	7.2 kgs
7100-4293	CAT40	15	9.2 kgs
7100-4294	CAT50	10	9.8 kgs
7100-4295	CAT50	15	11.8 kgs

## QUICK CHANGE OZ 25 COLLETS MILLING CHUCK 7100 SERIES



▶ 7100-0207~7100-4115

### CONTAINS:

- 7 pcs or 15 pcs oz collets in metric/inch size.
- Shank:available with MT2 / MT3 / MT4 / MT5, NT# 30 / NT# 40 / NT# 50 / R8.
- Spanner wrench
- Plastic packing handy box  
(Wooden packing is also available with extra cost)



CODE No.	SHANK x COLLET(PC.)	DRAW BAR	COLLET SET
7100-0207	MT No.2 x 7	M10 • 1.5P	6, 8, 10, 12, 16, 20, 25 mm
7100-0307	MT No.3 x 7	M12 • 1.75P	
7100-0407	MT No.4 x 7	M16 • 2.0P	
7100-5007	R8 x 7	7/16" • NF20	
7100-1207	NT #.30 x 7	M12 • 1.75P	
7100-1307	NT #.40 x 7	M16 • 2.0P	
7100-1407	NT #.50 x 7	M24 • 3.0P	
7100-1807	MT No.2 x 7	3/8" W16	
7100-3107	MT No.3 x 7	1/2" W12	
7100-4107	MT No.4 x 7	5/8" W11	
7100-5107	R8 x 7	7/16" NF16	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"
7100-0215	NT #.30 x 7	1/2" W12	
7100-0315	NT #.40 x 7	5/8" W11	
7100-0415	NT #.50 x 7	1" W8	
7100-0815	MT No.2 x 15	M10 • 1.5P	
7100-3015	MT No.3 x 15	M12 • 1.75P	3, 4, 5, 6, 7, 8, 9, 10, 11 12, 13, 16, 18, 20, 25 mm
7100-4015	MT No.4 x 15	M16 • 2.0P	
7100-5015	R8 x 15	7/16" • NF20	
7100-0215	NT #.30 x 15	M12 • 1.75P	
7100-3015	NT #.40 x 15	M16 • 2.0P	
7100-4015	NT #.50 x 15	M24 • 3.0P	1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/18", 15/16", 1"
7100-5015	MT No.2 x 15	3/8" W16	
7100-1215	MT No.3 x 15	1/2" W12	
7100-1315	MT No.4 x 15	5/8" W11	
7100-1415	R8 x 15	7/16" NF16	
7100-1815	NT #.30 x 15	1/2" W12	
7100-3115	NT #.40 x 15	5/8" W11	
7100-4115	NT #.50 x 15	1" W8	

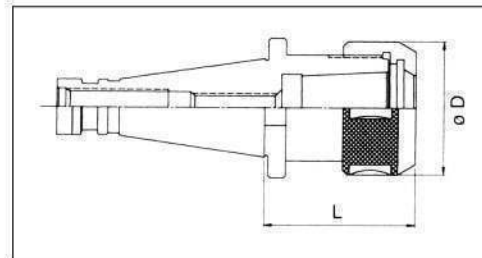


## DIN 6388 OZ25 & OZ32 COLLET CHUCK SHANKS

TAIWAN

▶ 7100-4100~7100-4114

Contains: 1 x MAIN SHANK  
7/15 PCS COLLETS  
1 x WRENCH  
1 x FITTED BOX



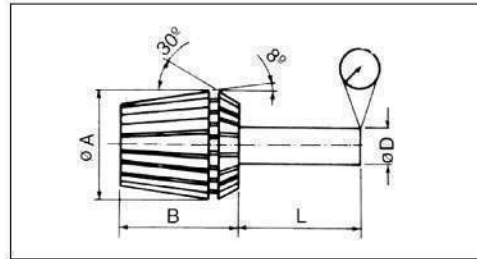
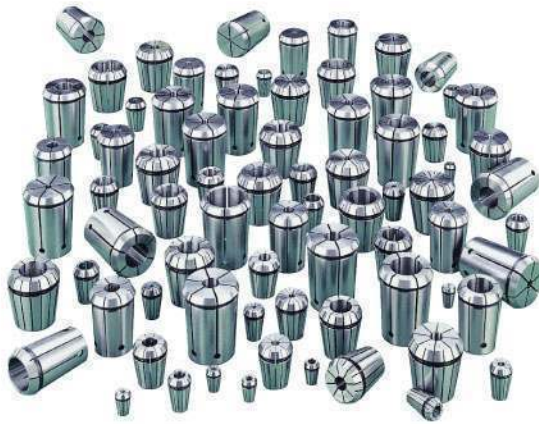
### OZ25

CODE No.	Collet Type	L	Ø D	Collet	Draw Bar G	Net Weight
7100-4100	NT30-OZ25-70	70	60	OZ25	1.M12 x 1.75P 2.1/2" - 12 3.1/2" - 13UNC	1 kgs
7100-4101	NT40-OZ25-70	70	60	OZ25	1.M16 x 2.05P 2.5/8" - 11	1.3 kgs
7100-4102	NT50-OZ25-73	73	60	OZ25	1.M24 x 3.0P 2.1" - 8	3.2 kgs
7100-4103	NTB2-OZ25-85	85	60	OZ25	1.M10 x 1.5P 1.M12 x 1.75P	1 kgs
7100-4104	NTB3-OZ25-70	70	60	OZ25	2.M10 x 1.5P 3.1/2" - 12 4.1/2" - 3UNC 5.3/8" - 16	1 kgs
7100-4105	NTB4-OZ25-70	70	60	OZ25	1.M16 x 2.0P 2.5/8" - 11	1.2 kgs
7100-4106	NTB5-OZ25-65	65	60	OZ25	1.M24 x 3.0P 2.1" - 8	2 kgs
7100-4107	R8-OZ25-70	70	60	OZ25	1.7/16" - 20UNF	1.2 kgs
7100-4108	BT30-OZ25-70	70	60	OZ25	1.M12 x 1.75P	0.9 kgs
7100-4109	BT40-OZ25-80	80	60	OZ25	1.M16 x 2.0P	1.5 kgs
7100-4110	BT50-OZ25-100	100	60	OZ25	1.M24 x 3.0P	4.3 kgs
7100-4111	SK40-OZ25-80	80	60	OZ25	1.M16 x 2.0P	1.9 kgs
7100-4112	SK50-OZ25-100	100	60	OZ25	1.M24 x 3.0P	4.2 kgs
7100-4113	CAT40-OZ25-3"	3"	60	OZ25	1.5/8" - 11	1.9 kgs
7100-4114	CAT50-OZ25-3 1/2"	3-1/2"	60	OZ25	1.1" - 8	4 kgs

### OZ32

CODE No.	Collet Type	L	Ø D	Collet	Draw Bar G	Net Weight
7100-4150	NT30-OZ32-100	100	78	OZ32	1.M12 x 1.75P 2.1/2" - 12	2 kgs
7100-4151	NT40-OZ32-85	85	78	OZ32	1.M16 x 2.0P 2.5/8" - 11	2.2 kgs
7100-4152	NT50-OZ32-80	80	78	OZ32	1.M24 x 3.0P 2.1" - 8	4.8 kgs
7100-4153	MTB5-OZ32-100	100	78	OZ32	1.M24 x 3.0P 2.1" - 8	3 kgs
7100-4154	BT40-OZ32-90	90	78	OZ32	1.M16 x 2.0P	2.3 kgs
7100-4155	BT50-OZ32-100	100	78	OZ32	1.M24 x 3.0P	5 kgs
7100-4156	BT50-OZ32-150	150	78	OZ32	1.M24 x 3.0P	6 kgs
7100-4157	SK40-OZ32-80	80	78	OZ32	1.M16 x 2.0P	2.3 kgs
7100-4158	SK50-OZ32-100	100	78	OZ32	1.M24 x 3.0P	5 kgs
7100-4159	CAT40-OZ32-3"	3"	78	OZ32	1.5/8" - 11	2.3 kgs
7100-4160	CAT50-OZ32-3 1/2"	3-1/2"	78	OZ32	1.1" - 8	5 kgs

## DIN-6499 ER SPRING COLLETS



TYPE	DIMENSION		ACCURACY			
	A	B	L / mm	D / mm	Standard Precision	Ultra
ER8	8.5	13.5	6	1.0-1.4	0.015	0.01
ER11	11.5	18	10	1.5-2.9	0.015	0.01
ER16	17	27	16	3.0-5.9	0.02	0.01
ER20	21	31	25	6.0-9.9	0.02	0.01
ER25	26	35	40	10.0-17.9	0.02	0.01
ER32	33	40	50	18.0-26.9	0.02	0.01
ER40	41	46	60	27.0-34.9	0.02	0.01
ER50	52	60				

### ▶ DIN-6499-4008E

#### ER11 COLLETS:METRIC

4300-1101	1.0-0.5 mm
4300-1102	1.5-1.0 mm
4300-1103	2.0-1.5 mm
4300-1104	2.5-2.0 mm
4300-1105	3.0-2.5 mm
4300-1106	3.5-3.0 mm
4300-1107	4.0-3.5 mm
4300-1108	4.5-4.0 mm
4300-1109	5.0-4.5 mm
4300-1110	5.5-5.0 mm
4300-1111	6.0-5.5 mm
4300-1112	6.5-6.0 mm
4300-1113	7.0-6.5 mm

### ▶ DIN-6499-426E

#### ER16 COLLETS:METRIC

PER 1 mm STEP		PER 0.5 mm STEP	
4300-1601	1.0-0.5 mm	4300-1611	1.5 mm
4300-1602	2.0-1.0 mm	4300-1612	2.5 mm
4300-1603	3.0-2.0 mm	4300-1613	3.5 mm
4300-1604	4.0-3.0 mm	4300-1614	4.5 mm
4300-1605	5.0-4.0 mm	4300-1615	5.5 mm
4300-1606	6.0-5.0 mm	4300-1616	6.5 mm
4300-1607	7.0-6.0 mm	4300-1617	7.5 mm
4300-1608	8.0-7.0 mm	4300-1618	8.5 mm
4300-1609	9.0-8.0 mm	4300-1619	9.5 mm
4300-1610	10-9.0 mm		

### ▶ DIN-6499-498E

#### ER20 COLLETS:METRIC

PER 1 mm STEP		PER 0.05 mm STEP	
4300-2001	2.0-1.0 mm	4300-2013	1.0 mm
4300-2002	3.0-2.0 mm	4300-2014	2.5 mm
4300-2003	4.0-3.0 mm	4300-2015	3.5 mm
4300-2004	5.0-4.0 mm	4300-2016	4.5 mm
4300-2005	6.0-5.0 mm	4300-2017	5.5 mm
4300-2006	7.0-6.0 mm	4300-2018	6.5 mm
4300-2007	8.0-7.0 mm	4300-2019	7.5 mm
4300-2008	9.0-8.0 mm	4300-2020	8.5 mm
4300-2009	10-9.0 mm	4300-2021	9.5 mm
4300-2010	11-10 mm	4300-2022	10.5 mm
4300-2011	12-11 mm	4300-2023	11.5 mm
4300-2012	13-12 mm	4300-2024	12.5 mm
		4300-2025	13.5 mm

### ▶ DIN-6499-430E

#### ER25 COLLETS-METRIC

4300-2501	2.0-1.0 mm
4300-2502	3.0-2.0 mm
4300-2503	4.0-3.0 mm
4300-2504	5.0-4.0 mm
4300-2505	6.0-5.0 mm
4300-2506	7.0-6.0 mm
4300-2507	8.0-7.0 mm
4300-2508	9.0-8.0 mm
4300-2509	10-9.0 mm
4300-2510	11-10 mm
4300-2511	12-11 mm
4300-2512	13-12 mm
4300-2513	14-13 mm
4300-2514	15-14 mm
4300-2515	16-15 mm

### ▶ DIN-6499-470E

#### ER32 COLLET-METRIC

4300-3202	3.0-2.0 mm
4300-3203	4.0-3.0 mm
4300-3204	5.0-4.0 mm
4300-3205	6.0-5.0 mm
4300-3206	7.0-6.0 mm
4300-3207	8.0-7.0 mm
4300-3208	9.0-8.0 mm
4300-3209	10-9.0 mm
4300-3210	11-10 mm
4300-3211	12-11 mm
4300-3212	13-12 mm
4300-3213	14-13 mm
4300-3214	15-14 mm
4300-3215	16-15 mm
4300-3216	17-16 mm
4300-3217	18-17 mm
4300-3218	19-18 mm
4300-3219	20-19 mm

### ▶ DIN-6499-472E

#### ER40 COLLET-METRIC

4300-4003	4.0-3.0 mm
4300-4004	5.0-4.0 mm
4300-4005	6.0-5.0 mm
4300-4006	7.0-6.0 mm
4300-4007	8.0-7.0 mm
4300-4008	9.0-8.0 mm
4300-4009	10-9.0 mm
4300-4010	11-10 mm
4300-4011	12-11 mm
4300-4012	13-12 mm
4300-4013	14-13 mm
4300-4014	15-14 mm
4300-4015	16-15 mm
4300-4016	17-16 mm
4300-4017	18-17 mm
4300-4018	19-18 mm
4300-4019	20-19 mm
4300-4020	21-20 mm
4300-4021	22-21 mm
4300-4022	23-22 mm
4300-4023	24-23 mm
4300-4024	25-24 mm
4300-4025	26-25 mm

#### ER50 COLLET-METRIC

4300-5010	12-10 mm
4300-5012	14-12 mm
4300-5014	16-14 mm
4300-5016	18-16 mm
4300-5018	20-18 mm
4300-5019	22-20 mm
4300-5022	24-22 mm
4300-5023	26-24 mm
4300-5026	28-26 mm
4300-5028	30-28 mm
4300-5030	32-30 mm
4300-5031	34-32 mm

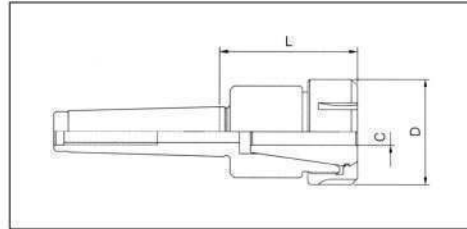
#### ER8 COLLET-METRIC

4300-0801	1-0.5 mm
4300-0802	1.5-1.0 mm
4300-0803	2.0-1.5 mm
4300-0804	2.5-2.0 mm
4300-0805	3.0-2.5 mm
4300-0806	3.5-3.0 mm
4300-0807	4.0-3.5 mm
4300-0808	4.5-4.0 mm
4300-0809	5.0-4.5 mm

## MORSE TAPER SHANK FOR DIN6499 ER COLLETS



▶ 4016-0220~4016-0540

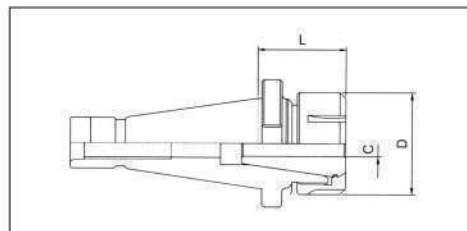


CODE No.	MT#	Collet Type	C/Capacity	L	C	Net Weight
4016-0220	2	ER20	2.0-13	30	34	0.45 kgs
4016-0225	2	ER25	2.0-16	47	42	0.5 kgs
4016-0325	3	ER25	2.0-16	47	42	0.6 kgs
4016-0332	3	ER32	2.0-20	55	50	0.8 kgs
4016-0340	3	ER40	3.0-26	61	63	1.3 kgs
4016-0432	4	ER32	2.0-20	55	50	0.95 kgs
4016-0440	4	ER40	3.0-26	62	63	1.5 kgs
4016-0540	5	ER40	3.0-26	62	63	2.0 kgs

## DIN2080 ISO TAPER SHANK FOR DIN6499 ER COLLET



▶ 4016-3016~4016-5050

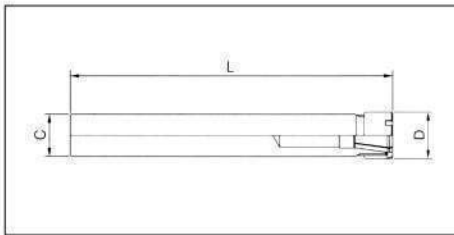


CODE No.	ISO Type	Collet Type	C/Capacity	L	D	Net Weight
4016-3016	30	ER16	1.0-10	43	28	0.5 kgs
4016-3020	30	ER20	2.0-13	50	34	0.5 kgs
4016-3025	30	ER25	2.0-16	50	42	0.65 kgs
4016-3032	0	ER32	2.0-20	56	50	0.8 kgs
4016-3040	30	ER40	3.0-26	75	63	0.9 kgs
4016-4016	40	ER16	1.0-10	45	28	0.95 kgs
4016-4020	40	ER16	2.0-13	45	34	1.2 kgs
4016-4025	40	ER20	2.0-16	53	42	1.25 kgs
4016-4032	40	ER20	2.0-20	50	50	1.3 kgs
4016-4040	40	ER25	3.0-26	53	63	1.35 kgs
4016-4050	40	ER32	12-34	80	78	2.0 kgs
4016-5016	50	ER40	1.0-10	100	28	3.0 kgs
4016-5016A	50	ER50	1.0-10	120	28	3.3 kgs
4016-5020	50	ER16	2.0-16	100	34	3.0 kgs
4016-5020A	50	ER20	2.0-16	150	34	3.3 kgs
4016-5032	50	ER32	2.0-20	75	42	3.2 kgs
4016-5040	50	ER40	3.0-26	67	50	3.4 kgs
4016-5050	50	ER50	12-34	70	78	3.7 kgs

## LONG STRAIGHT SHANK FOR DIN6499 ER COLLET

TAIWAN

▶ 4016-11130~4016-32300

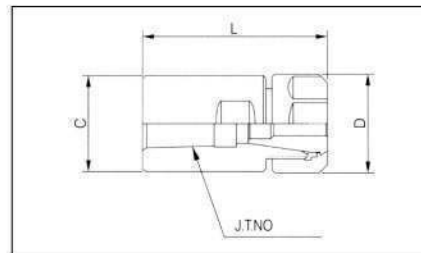


CODE No.	C	D	L	ER	Size Range
4016-11130	16	19	130	11	0.5-7 kgs
4016-16100	16	28	100	16	1.0-10 kgs
4016-11130	20	19	130	11	0.5-7 kgs
4016-16100	20	28	100	16	1.0-10 kgs
4016-16130	20	22	130	16	1.0-10 kgs
4016-16180	20	22	180	16	1.0-10 kgs
4016-16150	20	28	150	16	1.0-10 kgs
4016-20100	20	34	100	20	2.0-13 kgs
4016-20150	20	34	150	20	2.0-13 kgs
4016-20180	20	34	180	20	2.0-13 kgs
4016-16151	25	28	200	16	1.0-10 kgs
4016-16201	25	28	200	16	1.0-10 kgs
4016-20300	25	34	300	20	2.0-13 kgs
4016-20350	25	34	350	20	2.0-13 kgs
4016-25250	25	42	250	25	2.0-16 kgs
4016-20250	32	34	250	20	2.0-13 kgs
4016-25250	32	42	250	25	2.0-16 kgs
4016-32100	32	50	100	32	2.0-20 kgs
4016-32300	32	50	300	32	2.0-20 kgs

## STRAIGHT SHANKS WITH JACOB INTERNAL TAPER SHANKS FOR DIN6499 ER COLLET

▶ 4016-J616~4016-J620

TAIWAN

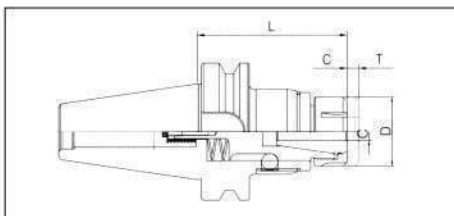


CODE No.	T	L	D1	D
4016-J616	JT6	70	25	28
4016-J620	JT6	70	34	34

## WER BT SHANK-TAPPING ATTACHMENT FOR DIN6499 ER COLLETS

TAIWAN

▶ 4017-3016~4017-5040



CODE No.	BT Taper	Tapping Capacity	D	L	T	E	Net Weight
4017-3016	30	M3-M10	28	80	7	3	1 kgs
4017-3020	30	M3-M13	34	80	7	3	1.1 kgs
4017-4016	40	M3-M10	28	110	7	3	1.8 kgs
4017-4020	40	M3-M13	34	110	7	3	1.9 kgs
4017-4025	40	M10-M22	42	130	11	3	2.5 kgs
4017-4032	40	M6-M20	50	130	8	3	2.5 kgs
4017-4040	40	M6-M26	63	135	8	3	2.53 kgs
4017-5016	50	M3-M10	28	130	7	3	4.1 kgs
4017-5020	50	M3-M13	34	130	7	3	4.2 kgs
4017-5032	50	M10-M22	42	125	8	3	4.7 kgs
4017-5025	50	M6-M20	50	125	8	3	4.5 kgs
4017-5032	50	M6-M26	63	125	1	3	4.6 kgs
4017-5040	50	M6-M34	78	170	5	3	6.5 kgs

## DIN 228 MORSE TAPER ER COLLET SETS



### ▶ 4204-4550~4204-4573

Contains: 1 x MT SHANK  
 1 x WRENCH  
 1 x FITTED BOX  
 COLLET AS BELOW LIST SIZES + NUMBERS



▲ 4204-4561  
 ER 32/ER 40 BY FITTED PLASTIC BOX



▲ 4204-4555  
 ER 16/ER 20/ER 25 BY WOODEN BOX

CODE No.	Collet Type	Set Range	Collet	Net Weight	Collet Type
4204-4550	MTB2-ER16-40 / 10PCS	1-10	ER16 10PCS	1.05 kgs	
4204-4551	MTB2-ER20-43 / 12PCS	2-13	ER20 12PCS	1.3 kgs	1. M10 X 1.5P
4204-4552	MTB2-ER25-47 / 15PCS	2-16	ER25 15PCS	2.4 kgs	2. 3/8" - 16
4204-4553	MTB2-ER25-47 / 7PCS	4-16	ER25 7PCS	2 kgs	
4204-4554	MTB3-ER16-40 / 10PCS	1-10	ER16 10PCS	1.15 kgs	
4204-4555	MTB3-ER20-43 / 12PCS	2-13	ER20 12PCS	1.35 kgs	
4204-4556	MTB3-ER25-47 / 15PCS	2-16	ER25 15PCS	2.5 kgs	1. M12 X 1.75P
4204-4557	MTB3-ER25-47 / 7PCS	4-16	ER25 7PCS	2.1 kgs	2. M10 X 1.5P
4204-4558	MTB3-ER32-70 / 18PCS	3-20	ER32 18PCS	4.1 kgs	3. 1/2" - 12
4204-4559	MTB3-ER32-70 / 11PCS	4-20	ER32 11PCS	3 kgs	4. 1/2" - 13UNC
4204-4560	MTB3-ER32-70 / 6PCS	6-20	ER32 6PCS	2.7 kgs	5. 3/8" - 16
4204-4561	MTB3-ER40-80 / 23PCS	4-26	ER40 23PCS	7.2 kgs	
4204-4562	MTB3-ER40-80 / 15PCS	4-26	ER40 15PCS	6 kgs	
4204-4563	MTB3-ER40-80 / 7PCS	6-25	ER40 7PCS	4.5 kgs	
4204-4564	MTB4-ER32-60 / 18PCS	3-20	ER32 18PCS	4.3 kgs	
4204-4565	MTB4-ER32-60 / 11PCS	4-20	ER32 11PCS	3.2 kgs	
4204-4566	MTB4-ER32-60 / 6PCS	6-20	ER32 6PCS	2.9 kgs	1. M16 X 2.0P
4204-4567	MTB4-ER40-82 / 23PCS	4-26	ER40 23PCS	7.3 kgs	2. 5/8" - 11
4204-4568	MTB4-ER40-82 / 15PCS	4-26	ER40 15PCS	6.1 kgs	
4204-4569	MTB4-ER40-82 / 7PCS	6-25	ER40 7PCS	4.6 kgs	
4204-4570	MTB5-ER40-82 / 23PCS	4-26	ER40 23PCS	8.2 kgs	
4204-4571	MTB5-ER40-82 / 15PCS	4-26	ER40 15PCS	6.9 kgs	1. M24 X 3.0P
4204-4572	MTB5-ER40-82 / 7PCS	6-25	ER40 7PCS	5.4 kgs	2. 1" - 8
4204-4573	MTB5-ER50-85 / 12PCS	12-34	ER50 12PCS	9.5 kgs	

## R8 SHANK ER COLLET SETS



### ▶ 4204-4500~4204-4506

Contains: 1 x R8 SHANK  
 1 x WRENCH  
 1 x FITTED BOX  
 COLLET AS BELOW LIST SIZES + NUMBERS



▲ 4204-4501

CODE No.	Collet Type	Set Range	Collet	Net Weight
4204-4500	R8-ER16-38 / 10PCS	1-10	ER16 10PCS	1.5 kgs
4204-4501	R8-ER32-40 / 18PCS	3-20	ER32 18PCS	4.3 kgs
4204-4502	R8-ER32-40 / 11PCS	4-20	ER32 11PCS	3.2 kgs
4204-4503	R8-ER32-40 / 6PCS	6-20	ER32 6PCS	2.9 kgs
4204-4504	R8-ER40-70 / 23PCS	4-26	ER40 23PCS	7.3 kgs
4204-4505	R8-ER40-70 / 15PCS	4-26	ER40 15PCS	6.1 kgs
4204-4506	R8-ER40-70 / 7PCS	6-25	ER40 7PCS	4.6 kgs

## STRAIGHT SHANK ER COLLET SETS-METRIC

▶ 4204-4600~4204-4656

TAIWAN

Contains: 1 x MAIN SHANK  
1 x WRENCH  
1 x FITTED BOX (WOOD or PLASTIC)  
COLLET AS BELOW LIST SIZES + NUMBERS



▲ 4204-4645

▲ 4204-4634

CODE No.	Collet Type	Set Range	Collet	Net Weight
4204-4600	ST16-ER11-50 / 13PCS	1-7	ER11 13PCS	0.6 kgs
4204-4601	ST16-ER11-50 / 7PCS	1-7	ER11 7PCS	0.5 kgs
4204-4602	ST16-ER11-100 / 13PCS	1-7	ER11 13PCS	0.7 kgs
4204-4603	ST16-ER11-100 / 7PCS	1-7	ER11 7PCS	0.6 kgs
4204-4604	ST16-ER16-100 / 10PCS	1-10	ER16 10PCS	1 kgs
4204-4605	ST16-ER16-100 / 8PCS	3-10	ER16 8PCS	1 kgs
4204-4606	ST20-ER16-50 / 10PCS	1-10	ER16 10PCS	1.05 kgs
4204-4607	ST20-ER16-50 / 8PCS	3-10	ER16 8PCS	1 kgs
4204-4608	ST20-ER16-100 / 10PCS	1-10	ER16 10PCS	1.1 kgs
4204-4609	ST20-ER16-100 / 8PCS	3-10	ER16 8PCS	1.05 kgs
4204-4610	ST20-ER16-150 / 10PCS	1-10	ER16 10PCS	1.2 kgs
4204-4611	ST20-ER16-150 / 8PCS	3-10	ER16 8PCS	1.15 kgs
4204-4612	ST25-ER16-150 / 10PCS	1-10	ER16 10PCS	1.1 kgs
4204-4613	ST25-ER16-50 / 8PCS	3-10	ER16 8PCS	1.05 kgs
4204-4614	ST25-ER16-100 / 10PCS	1-10	ER16 10PCS	1.2 kgs
4204-4615	ST25-ER16-100 / 8PCS	3-10	ER16 8PCS	1.15 kgs
4204-4616	ST25-ER16-150 / 10PCS	1-10	ER16 10PCS	1.35 kgs
4204-4617	ST25-ER16-150 / 8PCS	3-10	ER16 8PCS	1.3 kgs
4204-4618	ST20-ER20-50 / 12PCS	2-13	ER20 12PCS	1.2 kgs
4204-4619	ST20-ER20-50 / 10PCS	4-13	ER20 10PCS	1.15 kgs
4204-4620	ST20-ER20-100 / 12PCS	2-13	ER20 12PCS	1.3 kgs
4204-4621	ST20-ER20-100 / 10PCS	4-13	ER20 10PCS	1.25 kgs
4204-4622	ST20-ER20-150 / 12PCS	2-13	ER20 12PCS	1.4 kgs
4204-4623	ST20-ER20-150 / 10PCS	4-13	ER20 10PCS	1.35 kgs
4204-4624	ST25-ER20-50 / 12PCS	2-13	ER20 12PCS	1.3 kgs
4204-4625	ST25-ER20-50 / 10PCS	4-13	ER20 10PCS	1.25 kgs
4204-4626	ST25-ER20-100 / 12PCS	2-13	ER20 12PCS	1.4 kgs
4204-4627	ST25-ER20-100 / 10PCS	4-13	ER20 10PCS	1.35 kgs
4204-4628	ST25-ER20-100 / 12PCS	2-13	ER20 12PCS	1.5 kgs
4204-4629	ST25-ER20-100 / 10PCS	4-13	ER20 10PCS	1.45 kgs
4204-4630	ST25-ER20-150 / 12PCS	2-16	ER25 15PCS	2.4 kgs
4204-4631	ST20-ER20-150 / 10PCS	4-16	ER25 7PCS	1.9 kgs
4204-4632	ST20-ER20-50 / 15PCS	2-16	ER25 15PCS	2.4 kgs
4204-4633	ST20-ER25-50 / 7PCS	4-16	ER25 7PCS	1.9 kgs
4204-4634	ST20-ER25-100 / 15PCS	2-16	ER25 15PCS	2.5 kgs
4204-4635	ST25-ER25-150 / 7PCS	4-16	ER25 7PCS	2 kgs
4204-4636	ST25-ER25-100 / 15PCS	2-16	ER25 15PCS	2.5 kgs
4204-4637	ST25-ER25-100 / 7PCS	4-16	ER25 7PCS	2 kgs
4204-4638	ST25-ER25-150 / 15PCS	2-16	ER25 15PCS	2.65 kgs
4204-4639	ST25-ER25-150 / 7PCS	4-16	ER25 7PCS	2.2 kgs
4204-4640	ST32-ER25-60 / 15PCS	2-16	ER25 15PCS	2.5 kgs
4204-4641	ST32-ER25-60 / 7PCS	4-16	ER25 7PCS	2 kgs
4204-4642	ST25-ER32-80 / 18PCS	3-20	ER32 18PCS	4.1 kgs
4204-4643	ST25-ER32-80 / 11PCS	4-20	ER32 11PCS	3 kgs
4204-4644	ST25-ER32-80 / 6PCS	6-20	ER32 6PCS	2.7 kgs
4204-4645	ST32-ER32-100 / 18PCS	3-20	ER32 18PCS	4.3 kgs
4204-4646	ST32-ER32-100 / 11PCS	4-20	ER32 11PCS	3.2 kgs
4204-4647	ST32-ER32-100 / 6PCS	6-20	ER32 6PCS	2.9 kgs
4204-4648	ST40-ER32-100 / 18PCS	3-20	ER32 18PCS	4.5 kgs
4204-4649	ST40-ER32-100 / 11PCS	4-20	ER32 11PCS	3.4 kgs
4204-4650	ST40-ER32-100 / 6PCS	6-20	ER32 6PCS	3.1 kgs
4204-4651	ST32-ER40-100 / 23PCS	4-26	ER40 23PCS	7.3 kgs
4204-4652	ST32-ER40-100 / 15PCS	4-26	ER40 15PCS	6.1 kgs
4204-4653	ST32-ER40-100 / 7PCS	6-25	ER40 7PCS	4.6 kgs
4204-4654	ST40-ER40-100 / 23PCS	4-26	ER40 23PCS	7.6 kgs
4204-4655	ST40-ER40-100 / 15PCS	4-26	ER40 15PCS	6.5 kgs
4204-4656	ST40-ER40-100 / 7PCS	6-25	ER40 7PCS	5 kgs

## STRAIGHT SHANK ER COLLET SETS-METRIC

▶ 4204-4800~4204-4812

Contains: 1 x STRAIGHT SHANK  
1 x WRENCH  
1 x FITTED BOX  
COLLET AS BELOW LIST SIZES + NUMBERS



TAIWAN

▲ 4204-4805

CODE No.	Collet Type	Set Range	Collet	Net Weight
4204-4800	ST16-ER11M-50 / 13PCS	1-7	ER11 13PCS	0.6 kgs
4204-4801	ST16-ER11M-100 / 13PCS	1-7	ER11 13PCS	0.7 kgs
4204-4802	ST16-ER16M-100 / 10PCS	1-10	ER16 10PCS	1 kgs
4204-4803	ST20-ER16M-50 / 10PCS	1-10	ER16 10PCS	1.05 kgs
4204-4804	ST20-ER16M-100 / 10PCS	1-10	ER16 10PCS	1.1 kgs
4204-4805	ST20-ER16M-150 / 10PCS	1-10	ER16 10PCS	1.2 kgs
4204-4806	ST25-ER16M-100 / 10PCS	1-10	ER16 10PCS	1.2 kgs
4204-4807	ST25-ER16M-150 / 10PCS	1-10	ER16 10PCS	1.35 kgs
4204-4808	ST20-ER20M-50 / 12PCS	2-13	ER20 12PCS	1.2 kgs
4204-4809	ST20-ER20M-100 / 12PCS	2-13	ER20 12PCS	1.3 kgs
4204-4810	ST20-ER20M-150 / 12PCS	2-13	ER20 12PCS	1.4 kgs
4204-4811	ST25-ER20M-100 / 12PCS	2-13	ER20 12PCS	1.4 kgs
4204-4812	ST25-ER20M-150 / 12PCS	2-13	ER20 12PCS	1.5 kgs

## STRAIGHT SHANK ER COLLET SETS-IMPERIAL

▶ 4204-4700~4204-4727

Contains: 1 x MAIN SHANK  
1 x WRENCH  
1 x FITTED BOX (WOOD or PLASTIC)  
COLLET AS BELOW LIST SIZES + NUMBERS



TAIWAN

▲ 4204-4722

▲ 4204-4718

CODE No.	Collet Type	Set Range	Collet	Net Weight
4204-4700	ST1/2"-ER11-4" / 13PCS	1-7	ER11 13PCS	0.6 kgs
4204-4701	ST1/2"-ER11-6" / 13PCS	1-7	ER11 13PCS	0.7 kgs
4204-4702	ST5/8"-ER11-4" / 13PCS	1-7	ER11 13PCS	0.7 kgs
4204-4703	ST5/8"-ER11-6" / 13PCS	1-7	ER11 13PCS	0.75 kgs
4204-4704	ST3/4"-ER16-2.5" / 10PCS	1-10	ER16 10PCS	1 kgs
4204-4705	ST3/4"-ER16-4" / 10PCS	1-10	ER16 10PCS	1.1 kgs
4204-4706	ST3/4"-ER16-6" / 10PCS	1-10	ER16 10PCS	1.2 kgs
4204-4707	ST1"-ER16-2.5" / 10PCS	1-10	ER16 10PCS	1.1 kgs
4204-4708	ST1"-ER16-4" / 10PCS	1-10	ER16 10PCS	1.2 kgs
4204-4709	ST1"-ER16-6" / 10PCS	1-10	ER16 10PCS	1.3 kgs
4204-4710	ST3/4"-ER20-2.5" / 12PCS	2-13	ER20 12PCS	1.2 kgs
4204-4711	ST3/4"-ER20-4" / 12PCS	2-13	ER20 12PCS	1.3 kgs
4204-4712	ST3/4"-ER20-6" / 12PCS	2-13	ER20 12PCS	1.4 kgs
4204-4713	ST1"-ER20-2.5" / 12PCS	2-13	ER20 12PCS	1.3 kgs
4204-4714	ST1"-ER20-4" / 12PCS	2-13	ER20 12PCS	1.4 kgs
4204-4715	ST1"-ER20-6" / 12PCS	2-13	ER20 12PCS	1.5 kgs
4204-4716	ST1"-ER25-2.5" / 15PCS	2-16	ER20 12PCS	2.3 kgs
4204-4717	ST1"-ER25-4" / 15PCS	2-16	ER25 15PCS	2.5 kgs
4204-4718	ST1"-ER25-6" / 15PCS	2-16	ER25 15PCS	2.6 kgs
4204-4719	ST1"-ER32-3" / 18PCS	3-20	ER25 15PCS	4.1 kgs
4204-4720	ST1"-ER32-3" / 11PCS	4-20	ER32 18PCS	3 kgs
4204-4721	ST1"-ER32-3" / 6PCS	6-20	ER32 11PCS	2.7 kgs
4204-4722	ST1 1/4"-ER32-4" / 18PCS	3-20	ER32 6PCS	4.3 kgs
4204-4723	ST1 1/4"-ER32-4" / 11PCS	4-20	ER32 18PCS	3.2 kgs
4204-4724	ST1 1/4"-ER32-4" / 6PCS	6-20	ER32 11PCS	2.9 kgs
4204-4725	ST1 1/4"-ER40-3" / 23PCS	4-26	ER40 6PCS	7.3 kgs
4204-4726	ST1 1/4"-ER40-3" / 15PCS	4-26	ER40 15PCS	6.1 kgs
4204-4727	ST1 1/4"-ER40-3" / 7PCS	6-25	ER40 7PCS	4.6 kgs

## CAT SHANK ER COLLET SETS

TAIWAN

### ▶ 4204-4300~4204-4308

Contains: 1 x CAR SHANK  
1 x WRENCH  
1 x FITTED BOX  
COLLET AS BELOW LISTED SIZES + NUMBERS



▲ 4204-4305



▲ 4204-4303

CODE No.	Collet Type	Set Range	Collet	Net Weight
4204-4300	CAT30-ER16-2" / 10PCS	1-10	ER16 10PCS	1.7 kgs
4204-4301	CAT40-ER16-3" / 10PCS	1-10	ER16 10PCS	2.3 kgs
4204-4302	CAT40-ER20-3" / 12PCS	2-13	ER20 12PCS	2.5 kgs
4204-4303	CAT40-ER25-2 1/2" / 15PCS	2-16	ER25 15PCS	3 kgs
4204-4304	CAT40-ER32-2 1/2" / 18PCS	3-20	ER32 18PCS	5.2 kgs
4204-4305	CAT40-ER40-3" / 23PCS	4-26	ER40 23PCS	8.9 kgs
4204-4306	CAT40-ER40-3" / 15PCS	4-26	ER40 15PCS	7 kgs
4204-4307	CAT40-ER40-3 1/2" / 23PCS	4-26	ER40 23PCS	11.2 kgs
4204-4308	CAT40-ER40-3 1/2" / 15PCS	4-26	ER40 15PCS	9.8 kgs

## DIN 2080 ISO SHANK ER COLLET SETS

TAIWAN

### ▶ 4204-4400~4204-4427

Contains: 1 x ISO SHANK  
1 x WRENCH  
1 x FITTED BOX  
COLLET AS BELOW LIST SIZES + NUMBERS



▲ 4204-4417



▲ 4204-4411

CODE No.	Collet Type	Set Range	Collet	Net Weight	Collet Type
4204-4400	NT30-ER16-76 / 10PCS	1-10	ER16 10PCS	1.7 kgs	1. M12 x 1.75P 2. 1/2" - 12
4204-4401	NT30-ER20-76 / 12PCS	2-13	ER20 12PCS	1.8 kgs	
4204-4402	NT30-ER25-55 / 15PCS	2-16	ER25 15PCS	2.8 kgs	1. M12 x 1.75P 2. 1/2" - 12 3. 1/2" - 13UNC
4204-4403	NT30-ER25-55 / 7PCS	4-16	ER25 7PCS	2.4 kgs	
4204-4404	NT30-ER32-55 / 18PCS	3-20	ER32 18PCS	4.2 kgs	1. M12 x 1.75P 2. 1/2" - 12 3. 1/2" - 13UNC
4204-4405	NT30-ER32-55 / 11PCS	4-20	ER32 11PCS	3.2 kgs	
4204-4406	NT30-ER32-55 / 6PCS	6-20	ER32 6PCS	2.8 kgs	1. M16 x 2.0P 2. 5/8" - 11
4204-4407	NT30-ER40-70 / 23PCS	4-26	ER40 23PCS	7.3 kgs	
4204-4408	NT30-ER40-70 / 15PCS	4-26	ER40 15PCS	6 kgs	1. M16 x 2.0P 2. 5/8" - 11
4204-4409	NT30-ER40-70 / 7PCS	6-25	ER40 7PCS	4.6 kgs	
4204-4410	NT40-ER16-76 / 10PCS	1-10	ER16 10PCS	2.4 kgs	1. M16 x 2.0P 2. 5/8" - 11
4204-4411	NT40-ER20-76 / 12PCS	2-13	ER20 12PCS	2.5 kgs	
4204-4412	NT40-ER25-50 / 15PCS	2-16	ER25 15PCS	3.3 kgs	1. M16 x 2.0P 2. 5/8" - 11
4204-4413	NT40-ER25-50 / 7PCS	4-16	ER25 7PCS	3 kgs	
4204-4414	NT40-ER32-50 / 18PCS	3-20	ER32 18PCS	4.8 kgs	1. M16 x 2.0P 2. 5/8" - 11
4204-4415	NT40-ER32-50 / 11PCS	4-20	ER32 11PCS	3.8 kgs	
4204-4416	NT40-ER32-50 / 6PCS	6-20	ER32 6PCS	3.4 kgs	1. M24 x 3.0P 2. 1" - 8
4204-4417	NT40-ER40-60 / 23PCS	4-26	ER40 23PCS	8.2 kgs	
4204-4418	NT40-ER40-60 / 15PCS	4-26	ER40 15PCS	6.9 kgs	1. M24 x 3.0P 2. 1" - 8
4204-4419	NT40-ER40-60 / 7PCS	6-25	ER40 7PCS	5.2 kgs	
4204-4420	NT40-ER50-80 / 12PCS	12-34	ER50 12PCS	10 kgs	1. M24 x 3.0P 2. 1" - 8
4204-4421	NT50-ER32-60 / 18PCS	3-20	ER32 18PCS	6.4 kgs	
4204-4422	NT50-ER32-60 / 11PCS	4-20	ER32 11PCS	5.4 kgs	1. M24 x 3.0P 2. 1" - 8
4204-4423	NT50-ER32-60 / 6PCS	6-20	ER32 6PCS	5 kgs	
4204-4424	NT50-ER40-65 / 23PCS	4-26	ER40 23PCS	9.8 kgs	1. M24 x 3.0P 2. 1" - 8
4204-4425	NT50-ER40-65 / 15PCS	4-26	ER40 15PCS	8.5 kgs	
4204-4426	NT50-ER40-65 / 7PCS	6-25	ER40 7PCS	7 kgs	1. M24 x 3.0P 2. 1" - 8
4204-4427	NT50-ER50-65 / 12PCS	12-34	ER50 12PCS	11 kgs	



## MAS 403 BT SHANK ER COLLET SETS

TAIWAN

### ▶ 4024-4100~4204-4125

Contains: 1 x BT SHANK  
1 x WRENCH  
1 x FITTED BOX  
COLLET AS BELOW LIST SIZES + NUMBERS



▲ 4204-4118



▲ 4204-4112

CODE No.	Collet Type	Set Range	Collet	Net Weight
4204-4100	BT30-ER16-60 / 10PCS	1-10	ER16 10PCS	1.9 kgs
4204-4101	BT30-ER16-100 / 10PCS	1-10	ER16 10PCS	2 kgs
4204-4102	BT30-ER20-60 / 12PCS	2-13	ER20 12PCS	2.5 kgs
4204-4103	BT30-ER20-100 / 12PCS	2-13	ER20 12PCS	2.6 kgs
4204-4104	BT30-ER25-60 / 15PCS	2-16	ER25 15PCS	2.5 kgs
4204-4105	BT30-ER25-60 / 7PCS	4-16	ER25 7PCS	2.8 kgs
4204-4106	BT30-ER32-60 / 18PCS	3-20	ER32 18PCS	4.4 kgs
4204-4107	BT30-ER32-60 / 11PCS	4-20	ER32 11PCS	3.8 kgs
4204-4108	BT30-ER32-60 / 6PCS	6-20	ER32 6PCS	3.4 kgs
4204-4109	BT40-ER16-70 / 10PCS	1-10	ER16 10PCS	2.3 kgs
4204-4110	BT40-ER16-100 / 10PCS	1-10	ER16 10PCS	2.7 kgs
4204-4111	BT40-ER20-70 / 12PCS	2-13	ER20 12PCS	2.8 kgs
4204-4112	BT40-ER20-100 / 12PCS	2-13	ER20 12PCS	3 kgs
4204-4113	BT40-ER25-70 / 15PCS	2-16	ER25 15PCS	3.2 kgs
4204-4114	BT40-ER25-100 / 7PCS	4-16	ER25 7PCS	3 kgs
4204-4115	BT40-ER32-70 / 18PCS	3-20	ER32 18PCS	5.2 kgs
4204-4116	BT40-ER32-70 / 11PCS	4-20	ER32 11PCS	4.2 kgs
4204-4117	BT40-ER32-70 / 6PCS	6-20	ER32 6PCS	3.8 kgs
4204-4118	BT40-ER40-80 / 23PCS	4-26	ER40 23PCS	8.9 kgs
4204-4119	BT40-ER40-80 / 15PCS	4-26	ER40 15PCS	7.6 kgs
4204-4120	BT40-ER40-80 / 7PCS	6-25	ER40 7PCS	4.5 kgs
4204-4121	BT40-ER50-90 / 12PCS	12-34	ER50 12PCS	9 kgs
4204-4122	BT50-ER32-100 / 18PCS	3-20	ER32 18PCS	7.5 kgs
4204-4123	BT50-ER40-100 / 23PCS	4-26	ER40 23PCS	11.3 kgs
4204-4124	BT50-ER40-100 / 15PCS	4-26	ER40 15PCS	10 kgs
4204-4125	BT50-ER50-100 / 12PCS	12-34	ER50 12PCS	12 kgs

## DIN 69871A SK SHANK ER COLLET SETS

TAIWAN

### ▶ 4204-4200~4204-4212

Contains: 1 x SK SHANK  
1 x WRENCH  
1 x FITTED BOX  
COLLET AS BELOW LISTED SIZES + NUMBERS



▲ 4204-4208



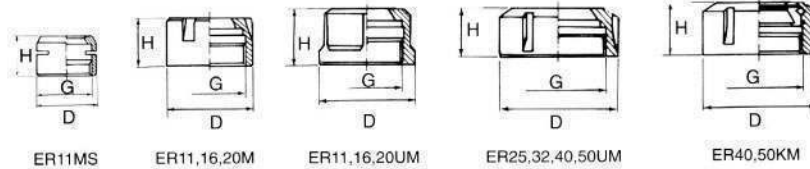
▲ 4204-4206

CODE No.	Collet Type	Set Range	Collet	Net Weight
4204-4200	SK30-ER16-60 / 10PCS	1-10	ER16 10PCS	1.8 kgs
4204-4201	SK30-ER20-60 / 12PCS	2-13	ER20 12PCS	2.4 kgs
4204-4202	SK30-ER25-60 / 15PCS	2-16	ER25 15PCS	2.7 kgs
4204-4203	SK30-ER32-60 / 18PCS	3-20	ER32 18PCS	4.2 kgs
4204-4204	SK40-ER16-70 / 10PCS	1-10	ER16 10PCS	2.2 kgs
4204-4205	SK40-ER25-70 / 12PCS	2-13	ER20 12PCS	2.7 kgs
4204-4206	SK40-ER32-70 / 15PCS	2-16	ER25 15PCS	3.1 kgs
4204-4207	SK40-ER40-70 / 18PCS	3-20	ER32 18PCS	5.2 kgs
4204-4208	SK40-ER40-80 / 23PCS	4-26	ER40 23PCS	8.9 kgs
4204-4209	SK40-ER40-80 / 15PCS	4-26	ER40 15PCS	7 kgs
4204-4210	SK40-ER32-100 / 18PCS	3-20	ER32 18PCS	7 kgs
4204-4211	SK40-ER40-100 / 15PCS	4-26	ER40 15PCS	9.5 kgs
4204-4212	SK40-ER40-100 / 23PCS	4-26	ER50 23PCS	11.3 kgs

## ER CLAMPING NUT

TAIWAN

▶ 4339-1100~4339-1114



CODE No.	Collet Type	D	H	G
4339-1100	ER11UM	19	13	M14 x 0.75P
4339-1101	ER16UM	28	18	M22 x 1.5P
4339-1102	ER20UM	34	21	M25 x 1.5P
4339-1103	ER25UM	42	20	M32 x 1.5P
4339-1104	ER32UM	50	23	M40 x 1.5P
4339-1105	ER40UM	63	25	M50 x 1.5P
4339-1106	ER50UM	78	35	M64 x 2.0P
4339-1107	ER11MS	16	12	M13 x 0.75P
4339-1108	ER8M	12	10.8	M10 x 0.75P
4339-1109	ER11M	16	12	M13 x 0.75P
4339-1110	ER16M	22	18	M19 x 1.0P
4339-1111	ER20M	28	19	M24 x 1.0P
4339-1112	ER25M	35	20	M30 x 1.0P
4339-1113	ER40KM	63	29	M50 x 1.5P
4339-1114	ER50KM	78	40	M64 x 2.0P

## ER WRENCH

TAIWAN

▶ 4336-5100~4336-5112



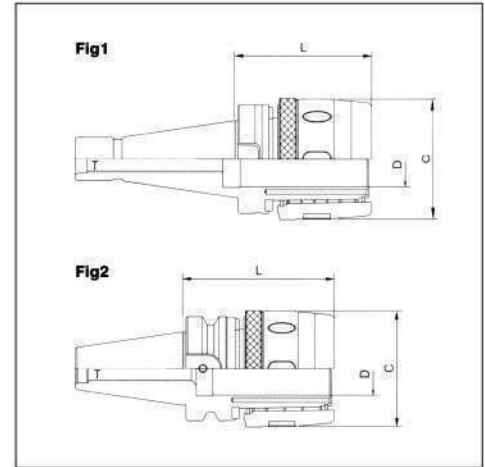
CODE No.	Collet Type	A	L	Net Weight
4336-5100	ER11UM	35	130	0.07 kgs
4336-5101	ER16UM	44	140	0.08 kgs
4336-5102	ER20UM	53	170	0.1 kgs
4336-5103	ER25UM	65	210	0.2 kgs
4336-5104	ER32UM	75	250	0.4 kgs
4336-5105	ER40UM	90	290	0.5 kgs
4336-5106	ER50UM	110	350	0.9 kgs
4336-5107	ER11MS	22	100	0.05 kgs
4336-5108	ER8M	13	75	0.04 kgs
4336-5109	ER11M	17	95	0.05 kgs
4336-5110	ER16M	22.5	118	0.06 kgs
4336-5111	ER20M	28	130	0.08 kgs
4336-5112	ER25M	36.5	135	0.1 kgs

## DIN2080-ISO40 / 50 AND MAS-BT30 / 40 / 50 MILLING CHUCK SET SERIES

### ▶ 4011-BT30~4011-NT50A

TAIWAN

Each set contains - One main shank  
5 pcs./7 pcs pr 8 pcs. OZ collets,  
One spanner locking handle  
One fitted woodbox  
One pc. Shank locking wrench

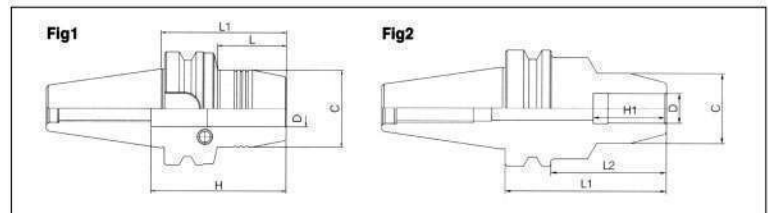


CODE No.	C	L	Collets	Spanner	Draw-Bar (T)	Fig.	Net Weight
4011-BT30	53	75	OZ20- 6 / 8 / 10 / 12 / 16	IMC20-T	M12 x P1.75	2	2.48 kgs
4011BT40	53	75	OZ20- 6 / 8 / 10 / 12 / 16	IMC20-T	M16 x P2.0	2	2.89 kgs
4011-BT40A	70	105	OZ32- 6 / 8 / 10 / 12 / 16 / 20 / 25		M16 x P2.0	2	6.29 kgs
4011-BT50	70	105	OZ32- 6 / 8 / 10 / 12 / 16 / 20 / 25	IMC32-T	M24 x P3.0	2	9.59 kgs
4011-BT50A	100	105	OZ42- 6 / 8 / 10 / 12 / 16 / 20 / 25 / 32	IMC32-T	M24 x P3.0	2	14.88 kgs
4011-NT30	53	70	OZ20- 6 / 8 / 10 / 12 / 16	IMC-42-T	1/2" x W12 / M12 x P2.0	1	2.36 kgs
4011-NT40	70	90	OZ32- 6 / 8 / 10 / 12 / 16 / 20 / 25	IMC-20-T	5/8" x W11 / M16 x P20	1	6.12 kgs
4011-NT40A	70	90	OZ32- 6 / 8 / 10 / 12 / 16 / 20 / 25	IMC32-T	1" x W8 / M24 x P3.0	1	9.14 kgs
4011-NT50	100	100	OZ32- 6 / 8 / 10 / 12 / 16 / 20 / 25	IMC42-T	1" x W8 / M24 x P3.0	1	14.38 kgs
4011-NT50A	100	100	OZ42- 6 / 8 / 10 / 12 / 16 / 20 / 25 / 32	IMC42-T	1" x W8 / M24 x P3.0	1	14.1 kgs

## HIGH PRECISION-0.005MM (CONCENTRICITY) AND HIGH TORQUE (0-1200 KG/CM2 MILLING CHUCK-BT SHANK SERIES)

TAIWAN

### ▶ 4012-3083~4012-5010G

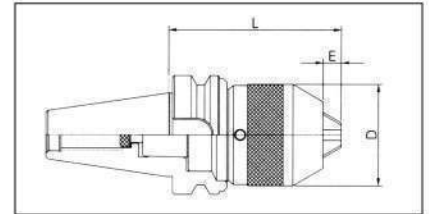


CODE No.	D	C	L1	L2	H	Fig	Net Weight
4012-3083	20	50	83	40	60	2	1.0 kgs
4012-4090	6	30	90	40	30	1	1.54 kgs
4012-4090A	8	34	90	40	30	1	1.54 kgs
4012-4090B	10	36	90	40	30	1	1.54 kgs
4012-4090C	12	40	90	40	30	1	1.57 kgs
4012-4090D	16	45	90	40	75	1	1.59 kgs
4012-4090E	20	50	90	40	75	1	1.69 kgs
4012-4090F	25	55	90	40	75	2	1.79 kgs
4012-4088	32	55	88	40	75	2	2.81 kgs
4012-5010	6	30	100	40	30	1	6.2 kgs
4012-5010A	8	32	100	40	30	1	6.2 kgs
4012-5010B	10	35	100	40	30	1	6.2 kgs
4012-5010C	12	40	100	40	30	1	6.23 kgs
4012-5010D	16	40	100	40	75	1	6.34 kgs
4012-5010E	20	40	100	40	75	1	6.4 kgs
4012-5012F	25	50	100	40	75	1	6.9 kgs
4012-5010G	32	55	100	40	75	1	6.9 kgs

## MAS 403 DRILL CHUCK HOLDER BUILT WITH DRILL CHUCK-BT TAPER

► 4014-3008~4014-5016

TAIWAN

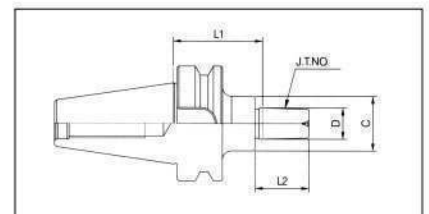


CODE No.	BT Taper	Chuck Cap.	L	E	D	Net Weight
4014-3008	30	1-8	80	7	36.3	1 kgs
4014-3013	30	1-13	110	8	50	1.5 kgs
4014-4008	40	1-8	85	7	36.3	1.7 kgs
4014-4013	40	1-13	95	8	50	2 kgs
4014-4014	40	1-13	130	8	50	2 kgs
4014-4016	40	3-16	100	14	57	2.3 kgs
4014-4017	40	3-16	135	14	57	3.5 kgs
4014-4015	40	1-13	130	8	50	2 kgs
4014-4018	40	3-16	130	8	50	2 kgs
4014-5008	50	0-8	95	8	38	3.83 kgs
4014-5013	50	1-13	110	8	50	4.4 kgs
4014-5014	50	1-13	180	8	60	5.5 kgs
4014-5015	50	1-13	135	8	60	5.5 kgs
4014-5016	50	3-16	135	8	60	5.5 kgs

## MAS 403 DRILL CHUCK HOLDER WITH BT TAPER SHANK

► 4015-30J1~4014-5018

TAIWAN

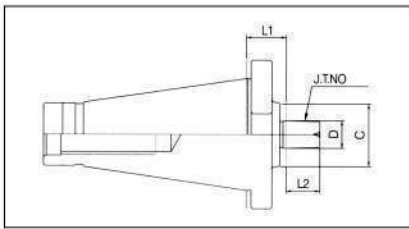


CODE No.	BT Taper	Drill Chuck Taper	L1	D	L2	C	Net Weight
4015-30J1	30	JT1	30	9.754	15	30	0.6 kgs
4015-30J2	30	JT2	30	14.199	20	30	0.6 kgs
4015-30J6	30	JT6	30	17.17	24	30	0.6 kgs
4015-40J1	40	JT1	45	9.754	15	30	1.2 kgs
4015-40J1A	40	JT2	105	9.754	15	30	1.5 kgs
4015-40J2	40	JT2	45	14.199	20	30	1.2 kgs
4015-40J2A	40	JT2	105	14.199	20	30	1.5 kgs
4015-40J6	40	JT6	45	17.17	24	30	1.2 kgs
4015-40J6A	40	JT6	105	17.17	24	30	1.5 kgs
4015-50J1	50	JT1	45	9.745	15	30	4 kgs
4015-50J1A	50	JT1	105	9.745	15	30	4.2 kgs
4015-50J2	50	JT2	45	14.199	20	30	4 kgs
4015-50J2A	50	JT2	105	14.199	20	30	4.2 kgs
4015-50J6	50	JT6	45	17.17	24	30	4 kgs
4015-50J6A	50	JT6	105	17.17	24	30	4.2 kgs
4014-3016	30	B16	30	15.733	24	30	0.6 kgs
4014-4016	40	B16	45	15.733	24	30	1.2 kgs
4014-4018	40	B16	105	15.733	24	30	1.5 kgs
4014-5016	50	B16	45	15.733	24	30	4 kgs
4014-5018	50	B16	105	15.733	24	30	4.2 kgs

## DIN2080 DRILL CHUCK HOLDER WITH ISO TAPER

TAIWAN

▶ 4014-30J1~4015-5016

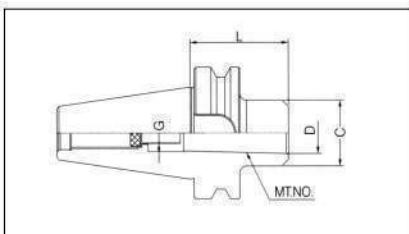


CODE No.	ISO Taper	Drill Chuck Taper	L1	D	L2	C	Net Weight
4014-30J1	30	JT1	20	9.754	15	30	0.6 kgs
4014-30J2	30	JT2	20	14.199	20	30	0.6 kgs
4014-30J6	30	JT6	20	17.17	24	30	0.6 kgs
4014-40J1	40	JT1	20	9.745	15	30	1.2 kgs
4014-40J2	40	JT2	20	14.19	20	30	1.2 kgs
4014-40J6	40	JT6	20	17.17	24	30	1.2 kgs
4014-50J1	50	JT1	20	9.754	15	30	3.5 kgs
4014-50J2	50	JT2	20	14.19	20	30	3.5 kgs
4014-50J6	80	JT6	20	17.17	24	30	3.5 kgs
4015-3016	30	JT6	20	15.733	24	30	0.6 kgs
4015-4016	40	JT6	20	15.733	24	30	12 kgs
4015-5016	50	JT6	20	15.733	24	30	3.5 kgs

## MAS 403 MORSE TAPER HOLDER FOR BT 30 / 40 / 50 SHANKS

TAIWAN

▶ 4006-3045~4006-50105

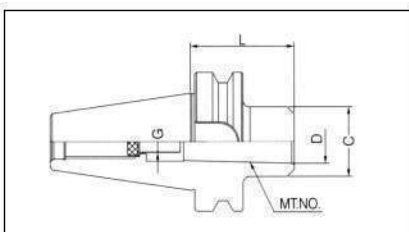


CODE No.	BT Taper	I.D-Morse Taper	D	L	C	G	Net Weight
4006-3045	30	MT #1	12.065	45	25	M6	0.6 kgs
4006-3060	30	MT #2	17.78	60	32	M10	0.9 kgs
4006-3070	30	MT #3	23.825	70	40	M12	0.95 kgs
4006-4045	40	MT #1	12.065	45	25	M6	1.2 kgs
4006-4045A	40	MT #2	17.78	45	32	M10	1.3 kgs
4006-4075	40	MT #3	23.825	75	40	M12	1.9 kgs
4006-40102	50	MT #4	31.267	102	50	M16	2.5 kgs
4006-5045	50	MT #1	12.065	45	25	M6	4.1 kgs
4006-5045A	50	MT #2	17.78	45	32	M10	1.3 kgs
4006-5060	30	MT #3	23.825	60	40	M12	4.3 kgs
4006-5075	40	MT #4	31.267	75	50	M16	4.6 kgs
4006-50105	50	MT #4	44.399	105	65	M20	6.5 kgs

## DIN6383 MORSE TAPER HOLDER FOR ISO 30 / 40 / 50 SHANKS

TAIWAN

▶ 4007-3045~4007-50105

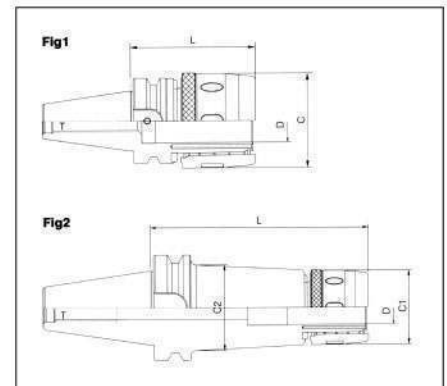


CODE No.	ISO Taper	I.D-Morse Taper	D	L	C	G	Net Weight
4007-3045	30	MT #1	12.065	45	25	M6	0.6 kgs
4007-3060	30	MT #2	17.78	60	32	M10	0.9 kgs
4007-3070	30	MT #3	23.825	70	40	M12	0.95 kgs
4007-4045	40	MT #1	12.065	45	25	M6	1.2 kgs
4007-4045A	40	MT #2	17.78	45	32	M10	1.3 kgs
4007-4075	40	MT #3	23.825	75	40	M12	1.9 kgs
4007-40102	40	MT #4	31.267	102	50	M16	2.5 kgs
4007-5045	50	MT #1	12.065	45	25	M6	4.1 kgs
4007-5045A	50	MT #2	17.78	45	32	M10	1.3 kgs
4007-5060	50	MT #3	23.825	60	40	M12	4.3 kgs
4007-5075	50	MT #4	31.267	75	50	M16	4.6 kgs
4007-50105	50	MT #4	44.399	105	65	M20	6.5 kgs

## MAS MILLING CHUCK SHANK-BT TAPER SERIES

TAIWAN

► 4009-3075~4009-5250A

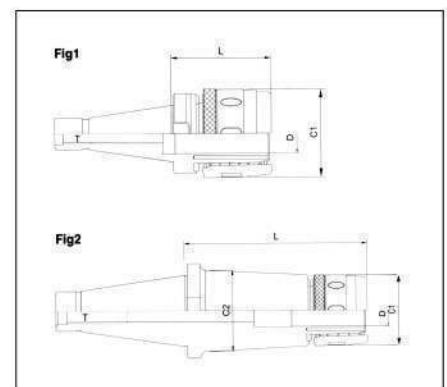


CODE No.	D	C1	C2	L	Spanner	Draw-Bar (T)	Ref. Fig.	Net Weight
4009-3075	20	53		75	IMC20-T	M12 x P1.75	#1	1.19 kgs
4009-4075	20	53		75	IMC20-T	M12 x P1.75	#1	1.6 kgs
4009-4090	32	70		90	IMC32-T	M16 x P2.0	#1	2.34 kgs
4009-4105	32	70		105	IMC32-T	M16 x P2.0	#1	2.7 kgs
4009-4135	32	70		135	IMC32-T	M16 x P2.0	#1	3.5 kgs
4009-5100	32	70		100	IMC32-T	M24 x P3.0	#1	5.64 kgs
4009-5135	32	70	90	135	IMC32-T	M24 x P3.0	#1	6.25 kgs
4009-5165	32	70	90	165	IMC32-T	M24 x P3.0	#2	7.35 kgs
4009-5200	32	70	90	200	IMC32-T	M24 x P3.0	#2	9.7 kgs
4009-5250	32	70	90	250	IMC32-T	M24 x P3.0	#2	12 kgs
4009-5105A	42	100		105	IMC32-T	M24 x P3.0	#1	7.5 kgs
4009-5135A	42	100		135	IMC32-T	M24 x P3.0	#1	8.7 kgs
4009-5165A	42	100		165	IMC32-T	M24 x P3.0	#1	9.9 kgs
4009-5200A	42	100		200	IMC32-T	M24 x P3.0	#1	12 kgs
4009-5250A	42	100		250	IMC32-T	M24 x P3.0	#1	15 kgs

## DIN2080 MAS MILLING CHUCK SHANK-ISO TAPER SERIES

TAIWAN

► 4010-3075~4010~5250A

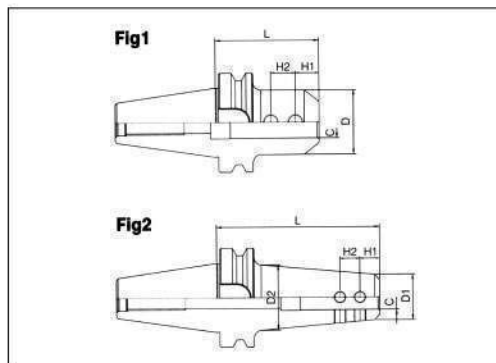


CODE No.	D	C1	C2	L	Collet	Draw-Bar (T)	Ref. Fig.	Net Weight
4010-3075	20	53		75	IMC20-T	12" x W12 / M12 x P1.75		1.07 kgs
4010-4090	32	70		90	IMC20-T	5/8" x W11 / M16 x P20	1	2.17 kgs
4010-4105	32	70		105	IMC32-T	5/8" x W11 / M16 x P20	1	2.38 kgs
4010-4135	32	70		135	IMC32-T	5/8" x W11 / M16 x P20	1	3.2 kgs
4010-5100	32	70		100	IMC32-T	5/8" x W11 / M16 x P20	1	5.19 kgs
4010-5135	32	70	90	135	IMC32-T	1" x W8 / M24 x P3.0	2	5.8 kgs
4010-5165	32	70	90	165	IMC32-T	1" x W8 / M24 x P3	2	6.3 kgs
4010-5200	32	70	90	200	IMC32-T	1" x W8 / M24 x P3.0	2	8.45 kgs
4010-5250	32	70	90	250	IMC32-T	1" x W8 / M24 x P3.0	2	10.9 kgs
4010-5100A	42	100		100	IMC42-T	1" x w8 / M24 x P3.0	1	7 kgs
4010-5135A	42	100		135	IMC42-T	1" x W8 / M24 x P3.0	1	8 kgs
4010-5165A	42	100		165	IMC42-T	1" x W8 / M24 x P3.0	1	9.5 kgs
4010-5200A	42	100		200	IMC42-T	1" x W8 / M24 x P3.0	1	10 kgs
4010-5250A	42	100		250	IMC42-T	1" x W8 / M24 x P3.0	1	12 kgs

## DIN2080 SIDE-LOCK END MILLING HOLDER-ISO 40 / 50 / R8

TAIWAN

▶ 4012-3551~4012-5101

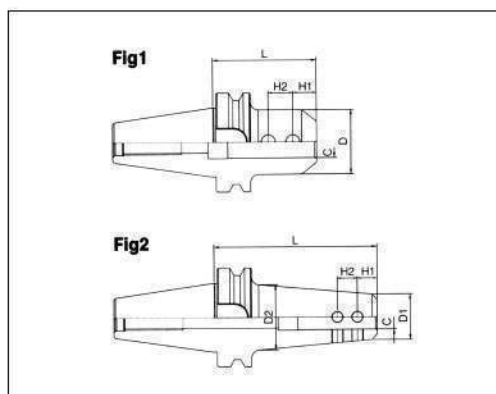


CODE No.	C	L	D	D2	H1	H2	G	Net Weight
4012-3551	6	55	25	25	12		M6	0.5 kgs
4012-3552	8	55	28	28	14		M8	0.5 kgs
4012-3553	10	55	35	35	15		M10	0.5 kgs
4012-3554	12	55	40	42	18		M10	0.6 kgs
4012-3555	16	60	45	45	20	18	M12	0.7 kgs
4012-3556	20	65	50	50	25	20	M14	0.8 kgs
4012-3557	25	75	55	53	25	22	M16	1 kgs
4012-4551	6	55	25	25	12		M6	1.2 kgs
4012-4552	8	55	28	28	14		M8	1.2 kgs
4012-4553	10	55	30	30	15		M10	1.2 kgs
4012-4554	12	55	42	42	18		M10	1.2 kgs
4012-4601	16	60	48	48	20	18	M12	1.3 kgs
4012-4651	20	65	52	52	25	20	M14	1.3 kgs
4012-4751	25	75	61	61	25	22	M16	1.5 kgs
4012-4901	32	90	60	60	30	22	M16	1.7 kgs
4012-5631	6	63	25	25	12		M6	3 kgs
4012-5632	8	63	28	27	14		M8	3 kgs
4012-5633	10	63	35	35	15		M10	3 kgs
4012-5634	12	63	42	42	18		M10	3 kgs
4012-5635	16	63	45	45	20	18	M12	3.1 kgs
4012-5150	16	150	55	55	20	20	M12	5 kgs
4012-5636	20	60	50	50	25	20	M14	3.2 kgs
4012-5151	20	150	40	50	20	20	M12	5.2 kgs
4012-5751	25	75	55	55	25	22	M16	3.3 kgs
4012-5152	25	150	40	49	20	20	M12	5.5 kgs
4012-5801	32	80	60	60	30	22	M16	3.5 kgs
4012-5153	32	150	50	60	20	20	M12	5.8 kgs
4012-5100	42	100	80	80	32	24	M20	4 kgs
4012-5154	42	150	60	80	20	20	M12	6.2 kgs
4012-5101	50.8	100	93	93	35	25	M20	5 kgs

## MAS403 SIDE-LOCK END MILL HOLDER FOR BT30 / 40 / 50 SHANK

▶ 4013-3060~4013-5124

TAIWAN

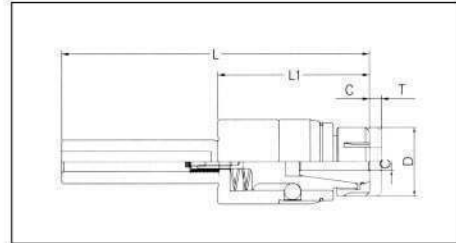


CODE No.	C	L	D	D2	H1	H2	G	Net Weight
4013-3060	6	60	25	25	18		M6	0.6 kgs
4013-3061	8	60	28	28	18		M8	0.6 kgs
4013-3062	10	60	35	35	20		M10	0.7 kgs
4013-3063	12	60	40	40	22.5		M12	0.8 kgs
4013-3064	16	60	48	48	24		M14	0.8 kgs
4013-3075	20	75	50	50	25	20	M12	1 kgs
4013-3076	25	75	55	55	25	22	M12	1.2 kgs
4013-4751	6	75	25	25	18		M6	1.3 kgs
4013-4752	8	75	28	28	18		M8	1.3 kgs
4013-4753	10	75	35	35	20		M10	1.3 kgs
4013-4754	12	75	42	42	22.5		M12	1.5 kgs
4013-4755	16	75	48	48	24		M14	1.5 kgs
4013-3756	20	75	52	52	25	20	M16	1.6 kgs
4013-4900	25	75	63	63	24	25	M16	2.1 kgs
4013-5105	32	90	68	68	30	22	M16	2.5 kgs
4013-5106	6	105	25	25	18		M6	3.9 kgs
4013-5107	8	105	28	28	18		M8	3.9 kgs
4013-5108	10	105	35	35	20		M10	3.9 kgs
4013-5115	12	105	40	40	22.5		M12	3.9 kgs
4013-5165	12	165	35	35	20	20	M10	5 kgs
4013-5109	16	105	48	48	24	20	M14	3.9 kgs
4013-5161	16	165	40	45	20	20	M12	5 kgs
4013-5110	20	105	52	50	25	22	M16	4.5 kgs
4013-5162	20	165	42	60	20	20	M12	6 kgs
4013-5210	20	210	42	70	20	20	M12	7 kgs
4013-5111	25	105	55	55	25	22	M16	4.6 kgs
4013-5166	25	165	45	65	20	20	M12	6 kgs
4013-5211	25	210	45	65	20	20	M12	7 kgs
4013-5112	32	105	70	66	24	28	M20	5.3 kgs
4013-5121	32	165	55	75	20	20	M14	6.5 kgs
4013-5167	32	210	55	85	20	20	M14	7.5 kgs
4013-5113	40	105	80	80	30	32	M20	6 kgs
4013-5122	42	120	80	90	30	32	M20	6.5 kgs
4013-5212	42	210	70	80	20	20	M14	7.8 kgs
4013-5123	50	120	90	90	35	35	M20	7.2 kgs
4013-5124	50.8	210	90	90	35	35	M20	7.2 kgs

## WER STRAIGHT SHANK-TAPPING ATTACHMENT FOR DIN6499 ER COLLETS

▶ 4017-WER16 / 4017-WER32

TAIWAN

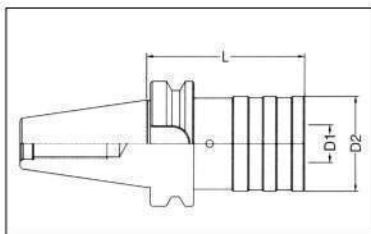


CODE No.	C/Tapping Capacity	L	L1	D	D1	C	T	Net Weight
4017-WER16	M3-M10	125	45	28	20	3	8	0.8 kgs
4017-WER32	M6-M20	225	65	50	32	3	10	0.9 kgs

## QUICK CHANGE TAPPING CHUCK-WITH STROKE COMPENSATION BT SHANK SERIES

▶ 4018-30C1~4018-51TC3

TAIWAN

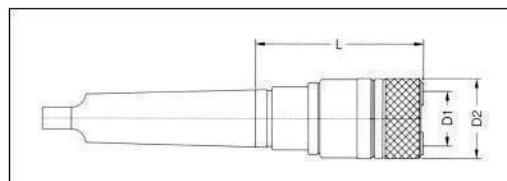


CODE No.	BT Taper	Thread Size	L	D2	D1	Length Compensation			Net Weight
						Compression	Tension	Collets	
4018-30TC1	30	M3-M12	57	36	19	6	12	TC-1	0.8 kgs
4018-40TC1	40	M3-M12	62	36	19	6	12	TC-1	1.1 kgs
4018-41TC1	40	M3-M12	120	36	19	10	20	TC-1	1.5 kgs
4018-40TC2	40	M3-M22	94	53	31	12.5	12.5	TC-2	1.6 kgs
4018-41TC2	40	M3-M22	165	53	31	10	25	TC-2	2.0 kgs
4018-40TC3	40	M16-M38	154	78	48	20	20	TC-3	3.8 kgs
4018-50TC1	50	M3-M12	71	36	19	6	12	TC-1	3.8 kgs
4018-51TC1	50	M3-M12	126	36	19	10	20	TC-1	4.2 kgs
4018-50TC2	50	M8-M22	102	53	31	12.5	12.5	TC-2	4.4 kgs
4018-51TC2	50	M8-M22	165	53	31	10	25	TC-2	5.0 kgs
4018-50TC3	50	M16-M38	142	78	48	20	20	TC-3	5.7 kgs
4018-51TC3	50	M16-M38	175	78	48	20	20	TC-3	6.0 kgs

## QUICK CHANGE TAPPING CHUCK-WITH STROKE COMPENSATION MORSE TAPER SHANK

▶ 4018-1TC0~4018-4TC3

TAIWAN



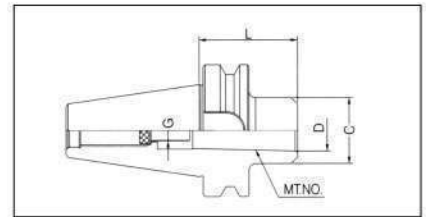
CODE No.	BT Taper	Thread size	L	D2	D1	Length Compensation			Net Weight
						Compression	Tension	Collets	
4018-1TC0	1	M3-M8	105	23	13	15	15	TC-0	0.7 kgs
4018-2TC1	2	M3-M12	133	35	19	20	20	TC-1	1.2 kgs
4018-3TC2	3	M8-M22	157	50	31	20	20	TC-2	1.8 kgs
4018-4TC3	4	M16-M38	204	72	48	20	20	TC-3	2.5 kgs



## MAS403 MORSE TAPER HOLDER FOR BT 30 / 40 / 50 SHANKS



▶ 4008-3048~4008-50210

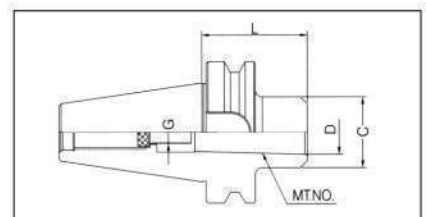


CODE No.	BT Taper	I.D. Morse Taper	L	C	Net Weight
4008-3048	30	MT #1	48	25	0.55 kgs
4008-30105	30	MT #1	105	25	1.25 kgs
4008-3060	30	MT #2	60	32	0.9 kgs
4008-30120	30	MT #2	120	32	1.45 kgs
4008-3075	30	MT #3	75	40	0.9 kgs
4008-30135	30	MT #3	135	40	1.55 kgs
4008-4045	40	MT #1	45	25	1.2 kgs
4008-40120	40	MT #1	120	25	2.2 kgs
4008-4045A	40	MT #2	45	32	1.6 kgs
4008-40120A	40	MT #2	120	32	2.2 kgs
4008-4090	40	MT #4	90	50	1.8 kgs
4008-40160	40	MT #4	160	50	2.2 kgs
4008-5045	50	MT #1	45	25	2.4 kgs
4008-50120	50	MT #1	120	25	4.3 kgs
4008-50180	50	MT #1	180	25	4.5 kgs
4008-5045A	50	MT #2	45	32	4.3 kgs
4008-50135	50	MT #2	135	32	4.5 kgs
4008-50180A	50	MT #2	180	32	4.8 kgs
4008-5060	50	MT #3	60	32	4.0 kgs
4008-50150	50	MT #3	150	40	4.9 kgs
4008-50180B	50	MT #3	180	50	5.2 kgs
4008-5075	50	MT #4	75	50	4.8 kgs
4008-50180C	50	MT #4	180	50	5.5 kgs
4008-50105	50	MT #5	106	65	5.2 kgs
4008-50210	50	MT #5	210	65	6.5 kgs

## DIN6383 MORSE TAPER HOLDER FOR ISO 30 / 40 / 50 SHANKS



▶ 4009-3040~4009-50200

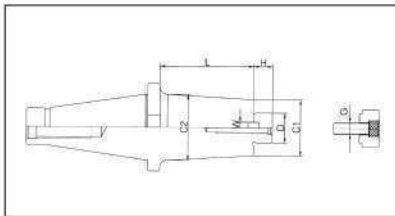


CODE No.	ISO Taper	I.D. Morse Taper	L	C	Net Weight
4009-3040	30	MT #1	40	25	0.46 kgs
4009-3040A	40	MT #2	40	32	0.46 kgs
4009-3070	30	MT #3	70	40	0.55 kgs
4009-4030	40	MT #1	30	25	0.6 kgs
4009-4030A	40	MT #2	30	32	0.75 kgs
4009-4045	40	MT #3	45	40	1.10 kgs
4009-4090	40	MT #4	90	50	1.30 kgs
4009-5030	50	MT #1	30	25	2.8 kgs
4009-5045	50	MT #2	45	32	2.8 kgs
4009-50120	50	MT #2	120	32	4.0 kgs
4009-5045A	50	MT #3	45	40	2.8 kgs
4009-50135	50	MT #3	135	40	4.0 kgs
4008-5075	50	MT #4	75	50	3.0 kgs
4009-50180	50	MT #4	180	50	4.2 kgs
4009-5083	50	MT #5	83	65	3.2 kgs
4009-50200	50	MT #5	200	65	6 kgs

## NT#30 / 40 / 50 SHANK FOR FACE MILLING CUTTERS



▶ 4022-4025~4022-5048

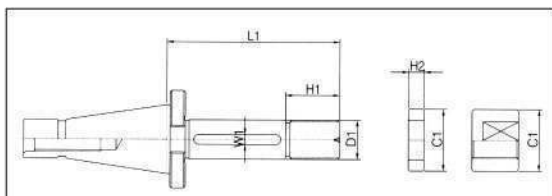


CODE No.	Cutter Dia	D	L	C1	C2	H	W	G	Kg
4022-4025	76	25.4	50	50	60	20	9.5	M12	1.7
4022-4026	76	25.4	75	50	60	20	9.5	M12	2.1
4022-4027	76	25.4	100	50	60	20	9.5	M12	2.4
4022-4031	100	31.75	50	60	65	20	12.7	M16	1.9
4022-4032	100	31.75	75	60	65	20	12.7	M16	2.3
4022-4033	100	31.75	100	60	65	20	12.7	M16	2.6
4022-4038	125	38.1	50	80	-	28	15.9	M16	2.5
4022-4039	125	38.1	100	80	-	28	15.9	M16	3.0
4022-5025	76	25.4	50	50	60	20	9.5	M12	3.5
4022-5026	76	25.4	75	50	60	20	9.5	M12	4.0
4022-5027	76	25.4	100	50	60	20	9.5	M12	4.5
4022-5028	76	25.4	125	50	70	20	9.5	M12	5.2
4022-5029	76	25.4	150	50	70	20	9.5	M12	5.8
4022-5030	76	25.4	200	50	70	20	9.5	M12	6.2
4022-5031B	76	25.4	300	50	70	20	9.5	M12	7.5
4022-5031	100	31.75	50	60	70	20	12.7	M16	3.6
4022-5032	100	31.75	75	60	70	20	12.7	M16	4.1
4022-5033	100	31.75	100	60	70	20	12.7	M16	4.6
4022-5034	100	31.75	125	60	80	20	12.7	M16	5.3
4022-5035	100	31.75	150	60	80	20	12.7	M16	5.9
4022-5036	100	31.75	200	60	80	20	12.7	M16	6.3
4022-5037	100	31.75	300	60	80	20	12.7	M16	7.8
4022-5038	125	38.1	50	80	-	28	15.9	M16	5.3
4022-5039	125	38.1	75	80	-	28	15.9	M16	6.3
4022-5040	125	38.1	100	80	-	28	15.9	M16	7.3
4022-5041	125	38.1	150	80	-	28	15.9	M16	9.3
4022-5042	125	38.1	200	80	-	28	15.9	M16	10.3
4022-5050	150	50.8	100	100	-	28	19.05	M16	7.9
4022-5051	150	50.8	150	100	-	28	19.05	M16	10.9
4022-5047	200	47.625	75	128.57	-	33	25.4	-	7.2
4022-5048	200	47.625	100	128.57	-	33	25.4	-	10.2

## ISO TAPER SHANK FOR SIDE MILLING CUTTERS ARBOR



▶ 4024-3025~4024-5033

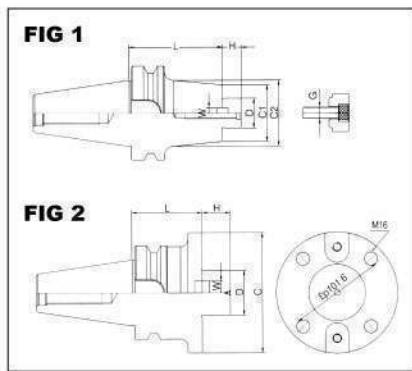


CODE No.	Cutter Dia	D	L1	H2	H1	W1	Kg
4024-3025	75	25.4	75	5,10,15,20	25	6.35	1.5
4024-3026	75	25.4	100	5,10,15,20	25	6.35	1.8
4024-4025	75	25.4	75	5,10,15,20,30,40	25	6.35	2.3
4024-4026	75	25.4	100	5,10,15,20,30,40	25	6.35	2.5
4024-4027	75	25.4	125	5,10,15,20,30,40	25	6.35	2.7
4024-4028	75	25.4	150	5,10,15,20,30,40	25	6.35	3.0
4024-4029	75	25.4	200	5,10,15,20,30,40	25	6.35	3.5
4024-4031	100	31.75	70	5,10,15,20	30	7.92	2.8
4024-4032	100	31.75	100	5,10,15,20	30	7.92	3.2
4024-5025	75	25.4	70	5,10,15,20,30,40	25	6.35	4.5
4024-5026	75	25.4	105	5,10,15,20,30,40	25	6.35	4.9
4024-5027	75	25.4	125	5,10,15,20,30,40	25	6.35	5.1
4024-5028	75	25.4	150	5,10,15,20,30,40	25	6.35	5.4
4024-5029	75	25.4	200	5,10,15,20,30,40	25	6.35	5.8
4024-5031	100	31.75	90	5,10,15,20,30,40	30	7.92	5.0
4024-5032	100	31.75	135	5,10,15,20,30,40	30	7.92	5.3
4024-5033	100	31.75	125	5,10,15,20,30,40	30	7.92	5.6

## BT30 / 40 / 50 SHANK FOR FACE MILLING CUTTERS



▶ 4020-3022~4020-5060

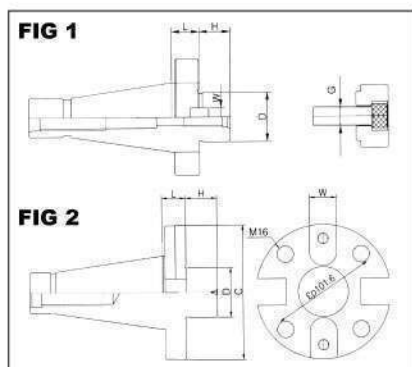


CODE No.	Fig	Cutter Dia	D	L	C1	C2	H	W	G	Kg
4020-3022	1	60	22	45	56	-	18	10	M10	1.2
4020-3027	1	80	27	45	64	-	20	12	M12	1.5
4020-3032	1	100	32	45	70	-	2	14	M16	1.6
4020-4022	1	60	22	45	50	-	18	10	M10	1.6
4020-4023	1	60	22	60	50	60	18	10	M10	1.8
4020-4024	1	60	22	90	50	60	18	10	M10	2.5
4020-4027	1	80	27	45	60	-	20	12	M12	2.3
4020-4028	1	80	27	60	60	-	20	12	M12	2.5
4020-4029	1	80	27	90	60	-	20	12	M12	3.2
4020-4030	1	80	27	105	60	-	20	12	M12	4.8
4020-4032	1	100	32	45	78	-	20	14	M16	2.0
4020-4040	1	125	40	60	85	-	22	16	M16	2.8
4020-5022	1	60	22	60	50	-	18	10	M12	4.3
4020-5023	1	60	22	90	50	60	18	10	M12	5.1
4020-5024	1	60	22	150	50	60	18	10	M12	6.4
4020-5027	1	80	27	45	60	-	20	12	M16	4.5
4020-5028	1	80	27	90	60	70	20	12	M16	5.2
4020-5029	1	80	27	150	60	70	20	12	M16	6.4
4020-5032	1	100	32	45	70	-	20	14	M16	4.6
4020-5033	1	100	32	90	70	80	20	14	M16	4.8
4020-5040	1	125	40	45	90	-	23	16	M16	5.1
4020-5041	1	125	40	90	90	100	23	16	M16	6.0
4020-5042	2	150	40	75	110	-	23	16	-	7.8
4020-5060	2	200	60	75	128.57	-	33	-	-	7.9

## NT#30 / 40 / 50 SHANK FOR FACE MILLING CUTTERS



▶ 4021-3025~4021-5060



CODE No.	Fig	Cutter Dia	D	L	H	W	G	Kg
4021-3025	1	76	25.4	20	20	9.5	M12	0.55
4021-3031	1	100	31.75	15	22	12.7	M16	0.75
4021-3038	1	125	38.1	20	28	15.9	M16	2.10
4021-4025	1	76	25.4	20	20	9.5	M12	1.45
4021-4031	1	100	31.75	20	22	12.7	M16	1.75
4021-4038	1	125	38.1	20	28	15.9	M16	2.0
4021-4050	1	150	50.8	20	28	19.05	M16	2.55
4021-4047	2	200	47.625	20	33	25.4	-	3.5
4021-5025	1	76	25.4	20	20	9.5	M12	3.3
4021-5031	1	100	31.75	20	22	12.7	M16	3.4
4021-5038	1	125	38.1	20	28	15.9	M16	3.6
4021-5050	1	150	50.8	20	28	19.05	M16	3.9
4021-5047	2	200	47.625	20	33	25.4	-	4.2
4021-3022	1	60	22	20	18	10	M10	0.4
4021-3027	1	80	27	15	20	12	M12	0.5
4021-3032	1	100	32	15	20	14	M16	0.7
4021-4022	1	60	22	20	18	10	M10	0.98
4021-4027	1	80	27	20	20	12	M12	1.0
4021-4032	1	100	32	20	20	14	M16	1.25
4021-4040	1	125	40	20	22	16	M16	1.75
4021-4041	2	150	40	20	22	16	-	3.2
4021-4060	2	200	60	20	30	25.4	-	3.8
4021-5022	1	60	22	20	18	10	M10	3.2
4021-5027	1	80	27	20	20	12	M12	3.3
4021-5032	1	100	32	20	20	14	M16	3.4
4021-5040	1	125	40	20	22	16	M16	3.9
4021-5050	2	150	40	20	22	16	-	4.5
4021-5060	2	200	60	20	30	25.4	-	4.8

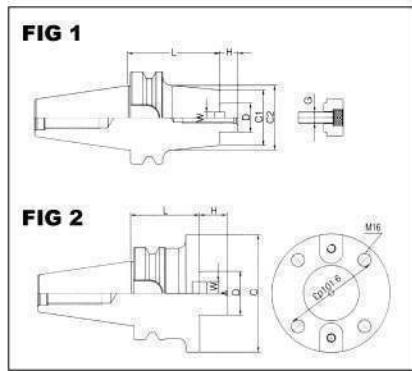
## BT30 / 40 / 50 SHANK FOR FACE MILLING CUTTERS



▶ 4019-3025~4019-5047



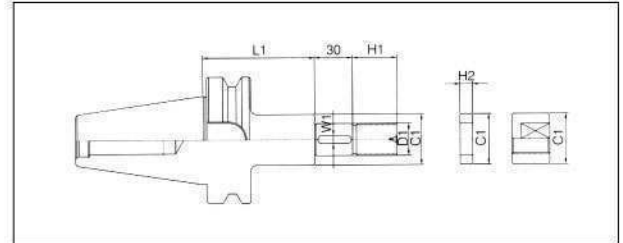
CODE No.	Fig	Cutter dia	D	L	C1	C2	H	W	G	Kg
4019-3025	1	76	25.4	45	45	-	20	9.5	M12	1.1
4019-3031	1	100	31.75	45	60	-	22	12.7	M16	1.4
4019-4025	1	76	25.4	45	50	-	20	9.5	M12	1.7
4019-4026	1	76	25.4	90	50	60	20	9.5	M12	2.5
4019-4031	1	100	31.75	45	60	-	22	12.5	M16	2.4
4019-4033	1	100	31.75	75	60	70	22	12.5	M16	2.7
4019-4036	1	100	31.75	105	60	70	22	12.5	M16	3.0
4019-4038	1	125	38.1	60	85	-	28	15.9	M16	2.9
4019-4050	1	150	50.8	60	98	-	28	19.05	M16	3.8
4019-5025	1	76	25.4	45	50	-	20	9.5	M12	4.35
4019-5020	1	76	25.4	75	50	60	20	9.5	M12	4.9
4019-5027	1	76	25.4	100	50	60	20	9.5	M12	5.1
4019-5028	1	76	25.4	125	50	70	20	9.5	M12	5.3
4019-5029	1	76	25.4	150	50	70	20	9.5	M12	6.4
4019-5030	1	76	25.4	200	50	70	20	9.5	M12	7.0
4019-5031	1	100	31.75	45	60	-	20	12.5	M16	4.6
4019-5032	1	100	31.75	75	60	70	20	12.5	M16	5.3
4019-5033	1	100	31.75	100	60	70	20	12.5	M16	6.1
4019-5034	1	100	31.75	125	60	70	20	12.5	M16	6.4
4019-5035	1	100	31.75	150	60	80	20	12.5	M16	6.8
4019-5036	1	100	31.75	175	60	80	20	12.5	M16	7.1
4019-5037	1	100	31.75	200	60	80	20	12.5	M16	7.5
4019-5038A	1	100	31.75	250	60	80	20	12.5	M16	7.8
4019-5038	1	125	38.1	45	85	-	25	15.9	M16	5.65
4019-5039	1	125	38.1	100	85	95	25	15.9	M16	6.0
4019-5050	1	150	50.8	45	95	-	25	19.05	M16	6.6
4019-5051	1	150	50.8	75	95	-	25	19.05	M16	6.8
4019-5047	2	200	47.625	75	128.57	-	33	125.4	-	7.9



## BT TAPER SHANK FOR MILLING CUTTERS ARBOR



▶ 4023-3013~4023-5039

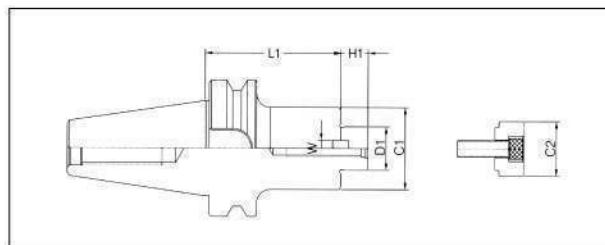


CODE No.	Fig	D1	L1	C1	H2	H1	W1	Cutter Dia	Kg
4023-3013	1	13	75	20	5,10,15	15	-	50	0.8
4023-3014	1	13	86	20	5,10,15	15	-	50	1.0
4023-3016	2	16	75	26	5,10,15	16	4	60	0.9
4023-3017	2	16	105	26	5,10,15	16	4	60	1.1
4023-3022	2	22	75	34	5,10,15	21	6	75	1.0
4023-3022S	2	22	120	34	5,10,15	21	6	75	1.2
4023-3023S	2	22.225	75	34	5,10,15	21	3.18	75	1.0
4023-3023	2	22.225	120	34	5,10,15	21	3.18	75	1.2
4023-3025	2	25.4	75	40	5,10,15	25	6.35	100	1.5
4023-3026	2	25.4	120	40	5,10,15	25	6.35	100	1.8
4023-4013	1	13	60	20	5,10,15	15	-	50	1.4
4023-4014	1	13	90	20	5,10,15	15	-	50	1.7
4023-4016	2	16	75	26	5,10,15	16	4	60	1.5
4023-4017	2	16	105	26	5,10,15	16	4	60	1.8
4023-4022	2	22	75	34	5,10,15	21	6	75	1.7
4023-4027	2	27	75	40	5,10,15	25	7	100	1.9
4023-4028	2	27	120	40	5,10,15	25	7	100	2.3
4023-4032	2	32	90	46	5,10,15	30	8	125	2.4
4023-4033	2	22.225	75	34	5,10,15	21	3.18	75	1.7
4023-4034	2	22.225	120	34	5,10,15	21	3.18	75	2
4023-4025	2	25.4	75	40	5,10,15	25	6.35	100	1.9
4023-4025A	2	25.4	120	40	5,10,15	25	6.35	100	2.3
4023-4031	2	31.75	90	46	5,10,15	30	7.92	125	2.4
4023-5016	2	16	90	26	5,10,15	15	4	60	4
4023-5017	2	16	120	26	5,10,15	15	4	60	4.1
4023-5022	2	22	90	34	5,10,15	21	6	75	4.3
4023-5023	2	22	135	34	5,10,15	21	6	75	4.6
4023-5027	2	27	90	40	5,10,15	25	7	100	4.7
4023-5028	2	27	135	40	5,10,15	25	7	100	5.1
4023-5032	2	32	90	46	5,10,15	30	8	125	5.1
4023-5033	2	32	135	46	5,10,15	30	8	125	5.7
4023-5040	2	40	90	55	5,10,15	36	10	150	5.8
4023-5041	2	40	135	55	5,10,15	36	10	150	6.8
4023-5022A	2	22.225	90	34	5,10,15	21	3.18	75	4.3
4023-5022B	2	22.225	135	34	5,10,15	21	3.18	75	4.6
4023-5025	2	25.4	90	40	5,10,15	25	6.35	100	4.7
4023-5026	2	25.4	135	40	5,10,15	25	6.35	100	5.1
4023-5031	2	31.75	90	46	5,10,15	30	7.92	125	5.1
4023-5032	2	31.75	135	46	5,10,15	30	7.92	125	5.7
4023-5038	2	38.1	90	55	5,10,15	36	9.52	150	5.8
4023-5039	2	38.1	135	55	5,10,15	36	9.52	150	6.8

## BT TAPER HOLDER SHELL ENDMILL HOLDER

TAIWAN

▶ 4025-3015~4025-5040

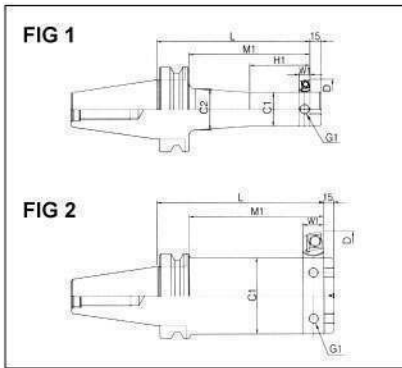


CODE No.	Cutter Dia	D1	L1	H1	C1	W1	C2	Kg
4025-3015	Ø35-Ø40	15.8754	45	17	34	8	20	0.8
4025-3022	Ø45-Ø50	22.225	45	27	42	8	28	0.9
4025-3025	Ø60-Ø80	25.4	45	36	50	10	33	1.1
4025-4015	Ø35-Ø40	15.8754	60	17	34	8	20	1.5
4025-4022	Ø45-Ø50	22.225	60	27	42	8	28	1.7
4025-4023	Ø45-Ø50	22.225	120	27	42	8	28	1.9
4025-4025	Ø60-Ø80	25.4	45	36	50	10	33	1.7
4025-4026	Ø60-Ø80	25.4	105	36	50	10	33	2.5
4025-4027	Ø60-Ø80	25.4	150	36	50	10	33	3.2
4025-4031	Ø100	31.75	45	28	60	10	40	2.5
4025-4032	Ø100	31.75	75	28	60	10	40	2.8
4025-4033	Ø100	31.75	100	28	60	10	40	3.2
4025-4038	Ø125	38.1	60	38	80	12	50	2.9
4025-4039	Ø125	38.1	100	38	80	12	50	3.2
4025-5015	Ø35-Ø40	15.875	75	17	34	8	20	4.5
4025-5016	Ø35-Ø40	15.875	120	17	34	8	20	6.0
4025-5022	Ø45-Ø50	22.225	75	27	42	8	28	4.5
4025-5023	Ø45-Ø50	22.225	120	27	42	8	28	6.0
4025-5031	Ø100	31.75	75	38	60	10	40	4.8
4025-5032	Ø100	31.75	120	38	60	10	40	6.2
4025-5038	Ø125	38.1	45	38	80	12	50	5.7
4025-5039	Ø125	38.1	75	38	80	12	50	6.8
4025-3016	Ø35-Ø40	16	45	15	34	8	20	0.8
4025-3022	Ø45-Ø50	22	45	17	42	8	28	0.9
4025-3027	Ø60-Ø80	27	45	19	50	10	33	1.1
4025-4016	Ø35-Ø40	16	60	15	34	8	20	1.5
4025-4022	Ø45-Ø50	22	60	17	42	8	28	1.7
4025-4027	Ø60-Ø75	27	60	19	50	10	33	2.6
4025-4032	100	32	60	23	60	10	40	2.9
4025-4040	125	40	45	26	80	12	50	3.2
4025-5016	35-40	16	75	15	34	8	20	4.3
4025-5022	45-50	22	75	17	42	8	28	4.3
4025-5023	45-50	22	120	17	42	8	28	5.0
4025-5027	60-80	27	60	19	50	10	33	4.3
4025-5028	60-80	27	150	19	50	10	33	5.3
4025-5032	100	32	75	23	60	10	40	4.4
4025-5033	100	32	120	23	60	10	40	5.3
4025-5040	120	40	75	26	80	12	50	5.0

## BT SHANK BORING BAR FOR HEAVY CUTTING

TAIWAN

▶ 4029-3020~4029-50135

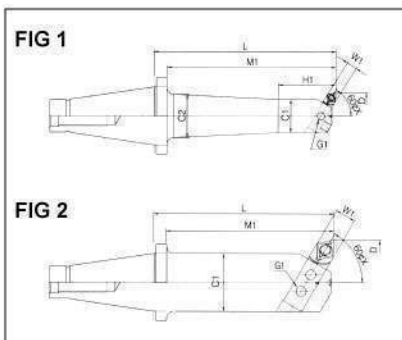


CODE No.	Fig	D		L	M1	C1	C2	H1	G1	W1	Kg
		min	max								
4029-3020	1	20	30	105	81	17	19	30	M6	6.35	0.8
4029-3025	1	25	38	120	96	20	24	35	M6	6.35	0.9
4029-3030	1	30	42	150	126	24	28	40	M6	8	1.0
4029-3038	1	38	52	165	141	30	36	45	M8	10	1.1
4029-3050	1	50	65	165	141	40	48	50	M12	13	1.2
4029-4025	1	25	52	120	90	20	23	35	M6	6.35	1.2
4029-4038	1	38	70	150	120	30	35	55	M8	10	1.7
4029-4050	1	50	90	165	135	40	48	70	M12	13	2.5
4029-4062	1	62	115	180	150	50	60	80	M14	16	3.6
4029-4072	2	72	135	180	150	60	-	-	M14	19.05	4.5
4029-4090	2	90	150	180	150	75	-	115	M14	19.05	5.9
4029-5025	1	25	52	135	92	20	23	35	M6	8	4.3
4029-5038	1	38	70	180	137	30	36	65	M8	10	4.9
4029-5050	1	50	90	180	137	40	48	70	M12	13	5.5
4029-5052	1	50	90	240	197	40	48	70	M12	13	5.8
4029-5062	1	62	115	195	152	50	58	80	M14	16	6.4
4029-5064	1	62	115	270	227	50	58	80	M14	16	7.8
4029-5072	1	72	135	195	152	60	68	95	M16	19.05	7.3
4029-5074	1	72	135	285	242	60	68	95	M16	19.05	9.6
4029-5090	1	90	150	210	167	75	80	115	M16	19.05	9.7
4029-5092	1	90	150	300	257	75	80	115	M16	19.05	12.8
4029-50105	2	105	160	195	-	90	-	-	M16	25	11.4
4029-50110	1	105	160	285	-	90	94	135	M16	25	15.7
4029-50130	2	130	260	195	-	110	-	60	M16	25	12.5
4029-50135	2	130	260	255	-	110	-	60	M16	25	14.1

## ISO TAPER BORING BAR

▶ 4030-4020~4030-50110

TAIWAN

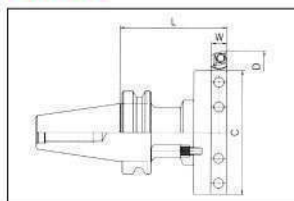


CODE No.	Fig	D		L	M1	C1	C2	H1	G1	W1	Kg
		min	max								
4030-4020	1	25	38	105	120	20	23	35	M6	1/4"	1.2
4030-4025	1	30	42	120	150	25	28	40	M6	5/16"	1.4
4030-4030	1	38	52	150	165	30	38	50	M8	5/16"	1.7
4030-4040	1	50	65	165	165	40	48	65	M12	1/2"	2.3
4030-4050	1	62	90	165	180	50	58	-	M14	5/8"	3.4
4030-4060	2	72	110	120	180	60	-	-	M16	3/4"	3.9
4030-4070	2	90	125	150	180	70	-	-	M16	3/4"	5.2
4030-5020	1	25	38	165	135	20	23	35	M6	5/16"	4.2
4030-5025	1	30	42	180	165	25	28	40	M6	5/16"	4.4
4030-5030	1	38	52	180	180	30	38	50	M8	3/8"	4.8
4030-5035	1	42	58	180	230	35	40	60	M8	1/2"	5.2
4030-5040	1	50	65	135	160	40	48	65	M12	1/2"	5.6
4030-5042	1	50	65	180	250	40	48	65	M12	1/2"	5.8
4030-5050	1	62	90	180	165	50	58	80	M14	1/2"	6.1
4030-5052	1	62	90	240	250	50	58	80	M14	1/2"	7.7
4030-5060	1	72	110	195	195	60	68	95	M14	5/8"	7
4030-5062	1	72	110	270	250	60	68	95	M14	5/8"	9.3
4030-5070	1	90	125	195	195	70	78	110	M16	3/4"	9.2
4030-5072	1	90	125	285	250	70	78	110	M16	3/4"	12.3
4030-5080	2	105	160	210	200	80	-	-	M16	3/4"	10.7
4030-5082	1	105	160	300	300	80	90	130	M16	3/4"	15
4030-5090	2	120	190	195	200	90	-	-	M16	3/4"	12
4030-5092	1	120	190	285	300	90	98	130	M16	3/4"	17
4030-50105	2	130	200	195	-	105	-	-	M16	1"	13
4030-50110	2	130	200	255	-	105	-	-	M16	1"	16

## BT50 SHANK FOR LARGE SIZE BORING BAR

TAIWAN

▶ 4031-50150~4031-50400

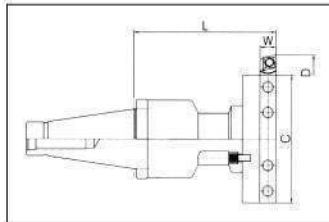


CODE No.	D		M1	M1	C2	H1	W1	Kg
	min	max						
4031-50150	170	250	150	150	19	M14	M10	9.1
4031-50200	220	300	150	200	19	M14	M10	10.3
4031-50250	270	350	150	250	25	M14	M10	11.3
4031-50300	320	400	150	300	25	M14	M10	12.2
4031-50400	420	500	150	400	25	M14	M10	14.5

## ISO50 TAPER SHANK FOR LARGE SIZE BORING BAR

TAIWAN

▶ 4032-50150~4032-50400



CODE No.	D		M1	M1	C2	H1	W1	Kg
	min	max						
4032-50150	170	250	150	150	19	M14	M10	9.1
4032-50200	220	300	150	200	19	M14	M10	10.3
4032-50250	270	350	150	250	25	M14	M10	11.3
4032-50300	320	400	150	300	25	M14	M10	12.2
4032-50400	420	500	150	400	25	M14	M10	14.5

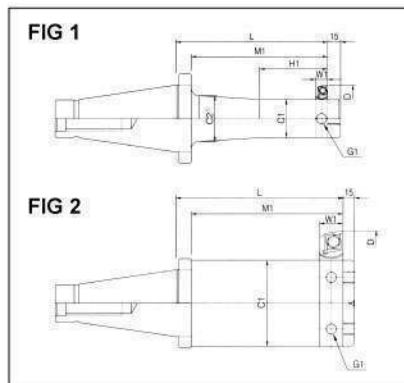
## ISO TAPER SHANK FOR BORING BAR

TAIWAN

▶ 4033-4020~4033-50105



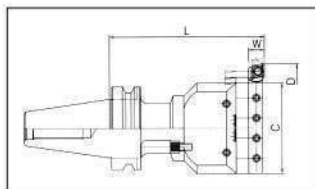
CODE No.	Fig	D		L	M1	C1	C2	H1	G1	W1	Kg
		min	max								
4033-4020	1	25	38	120	105	20	23	35	M6	5/16"	1.2
4033-4025	1	30	42	150	135	25	28	40	M6	5/16"	1.4
4033-4030	1	38	55	165	150	30	38	50	M8	3/8"	1.7
4033-4040	1	50	70	165	150	40	48	60	M10	1/2"	2.3
4033-4050	1	62	95	180	165	50	58	70	M14	5/8"	3.4
4033-4060	2	72	140	180	165	60	-	-	M16	5/8"	5.2
4033-5020	1	25	38	165	150	20	24	35	M6	5/16"	4.4
4033-5025	1	30	45	165	150	25	28	40	M6	3/8"	4.8
4033-5030	1	38	52	165	150	30	38	50	M8	3/8"	4.9
4033-5032	1	38	52	210	195	30	38	50	M8	3/8"	5.2
4033-5035	1	42	58	150	135	35	40	50	M8	1/2"	4.7
4033-5037	1	42	58	250	235	35	40	50	M8	1/2"	6.5
4033-5040	1	50	80	180	165	40	48	60	M10	1/2"	5.0
4033-5042	1	50	80	260	245	40	48	60	M10	1/2"	6.5
4033-5050	1	62	100	200	185	50	58	70	M14	5/8"	6.3
4033-5052	1	62	100	250	235	50	58	70	M14	5/8"	7.0
4033-5060	1	72	120	195	180	60	68	80	M16	5/8"	6.3
4033-5062	1	72	120	250	235	60	68	80	M16	5/8"	7.2
4033-5070	1	90	150	200	185	70	78	90	M16	3/4"	6.8
4033-5072	1	90	150	250	235	70	78	90	M16	3/4"	7.8
4033-5080	2	100	170	200	185	80	-	-	M16	3/4"	10.8
4033-5082	2	100	170	250	235	80	-	-	M16	3/4"	11.8
4033-5090	2	120	190	195	180	90	-	-	M16	1"	11.4
4033-5092	2	120	190	300	285	90	-	-	M16	1"	17.0
4033-50100	2	120	220	160	145	100	-	-	M16	1"	10.5
4033-50105	2	120	220	285	210	100	-	-	M16	1"	11.0



## BT40 / 50 SHANK BORING HEAD

TAIWAN

▶ 4034-4083~4034-50200

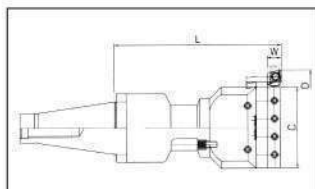


CODE No.	D		C	L	W	kg	Fig
	min	max					
4034-4083	95	160	83	180	20	6.5	1
4034-40108	130	250	108	180	20	6.7	2
4034-40160	200	360	160	180	20	7.5	2
4034-5083	95	160	83	180	-	7.5	1
4034-50108	130	250	108	180	-	8.0	2
4034-50160	200	360	160	180	-	7.9	2
4034-50200	230	420	200	180	-	8.5	2

## ISO40 / 50 SHANK BORING HEAD

TAIWAN

▶ 4035-5083~4035-50200



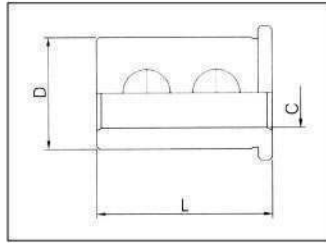
CODE No.	D		C	L	W	kg	Fig
	min	max					
4035-5083	95	160	83	180	20	7.0	1
4035-50108	130	250	108	180	20	7.8	2
4035-50160	200	360	160	180	20	7.9	2
4035-50200	230	420	200	180	20	8.1	2



## OIL-FEED HOLDER/OSL

TAIWAN

▶ 4028-3216~4028-4032

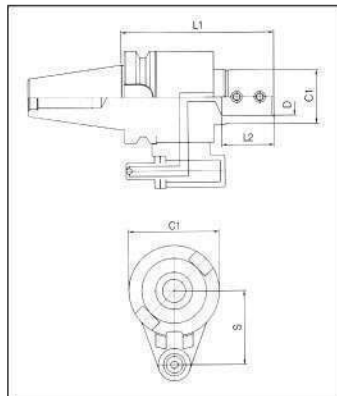


CODE No.	D	C	L	Kg
4028-3216	32	16	66	0.5
4028-3220	32	20	66	0.4
4028-3225	32	25	66	0.3
4028-4016	40	16	70	0.9
4028-4020	40	20	70	0.8
4028-4025	40	25	70	0.6
4028-4032	40	32	70	0.5

## BT OLD FEED HOLDER

TAIWAN

▶ 4026-4016~4026-5032R

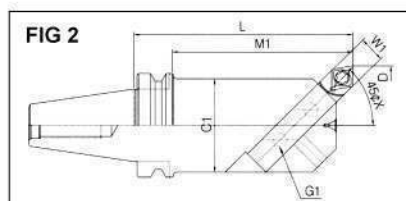
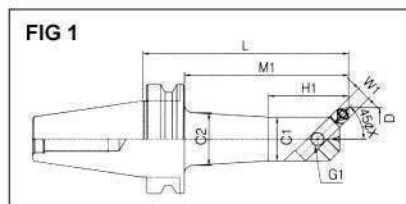


CODE No.	D	C1	C2	L1	L2	S	Kg
4026-4016	16	82	48	150	48	65	3.8
4026-4020	20	82	48	150	50	65	3.8
4026-4025	25	82	48	165	56	65	4
4026-4032	32	82	75	165	60	65	4.1
4026-4032R	32	82	75	165	60	65	4.1
4026-5016	16	98	48	165	48	80	7.1
4026-5020	20	98	48	165	50	80	7.2
4026-5025	25	98	48	165	56	80	7.5
4026-5032	32	98	58	165	60	80	7.6
4026-5040	40	98	58	165	70	80	7.8
4026-5032R	32	98	58	150	40	80	7.72

## BT SHANK FOR HEAVY CUTTINGS BORING BAR

TAIWAN

▶ 4027-3020~4027-5131



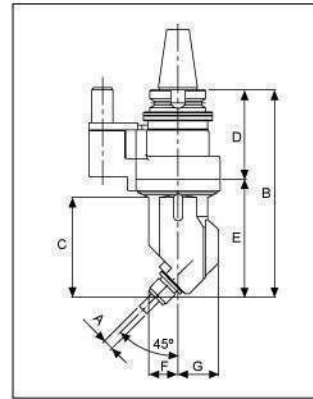
CODE No.	Fig	D		L	M1	C1	C2	H1	G1	W1	Kg
		min	max								
4027-3020	1	20	30	105	81	17	19	30	M6	6.35	0.8
4027-3025	1	25	38	120	96	20	24	35	M6	6.35	0.9
4027-3030	1	30	42	150	126	24	28	40	M6	8	0.9
4027-3038	1	38	52	165	141	30	36	50	M8	10	1.0
4027-3050	1	50	65	165	141	40	48	65	M12	13	1.3
4027-4025	1	25	38	120	90	20	23	35	M6	6.35	1.2
4027-4030	1	30	42	150	120	24	26	40	M6	8	1.4
4027-4038	1	38	52	165	135	30	33	50	M8	10	1.7
4027-4050	1	50	65	165	135	40	48	65	M12	13	2.3
4027-4062	1	62	90	180	150	50	58	80	M14	16	3.4
4027-4072	2	72	110	180	150	60	-	-	M16	19.05	3.9
4027-4090	2	90	125	180	150	75	-	110	M16	19.05	5.2
4027-5025	1	25	38	135	92	20	23	35	M6	8	4.2
4027-5030	1	30	42	165	122	24	28	40	M6	8	4.4
4027-5038	1	38	52	180	137	30	36	50	M8	10	8
4027-5042	1	42	56	210	167	34	39	60	M8	10	5
4027-5043	1	42	56	270	227	34	39	60	M8	10	5.6
4027-5050	1	50	65	180	137	40	48	65	M12	13	5.4
4027-5051	1	50	65	240	197	40	48	65	M12	13	5.7
4027-5062	1	62	90	195	152	50	50	80	M14	16	6.2
4027-5063	1	62	90	270	227	50	50	80	M14	16	7.6
4027-5072	1	72	110	195	152	60	70	95	M16	19.05	7
4027-5073	1	72	110	285	242	60	70	95	M16	19.05	9.3
4027-5090	1	90	125	210	167	75	80	110	M16	19.05	9.2
4027-5091	1	90	125	300	257	75	80	110	M16	19.05	12.3
4027-5105	2	105	160	195	-	90	-	-	M16	25	10.7
4027-5106	1	105	160	285	-	90	94	130	M16	25	15
4027-5130	2	130	190	195	-	110	-	120	M16	25	12
4027-5131	2	130	190	295	-	110	-	120	M16	25	14.5

## 45° ANGLE HEAD

### JC-90-001-BT40-ER20-AHD / JC-90-001-BT50-ER40-AHD

#### FEATURES

- AHD series have same feature as AHA series.
- Splash Coolant-Thru-Body system prevents overheated and cutting chips.
- Cutting direction can easily be set by indicating the datum face.
- Concentricity: 0.002 mm
- Material: FCD60~FCD65
- R.P.M.: Max. 6000 RPM



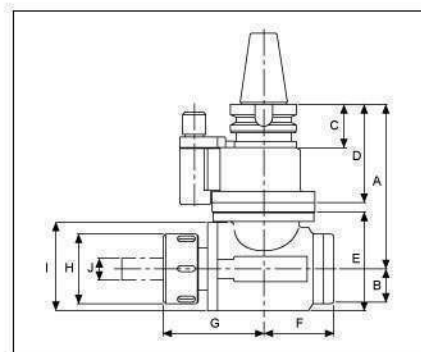
CODE No.	A	B	C	D	E	F	G	Gear Ratio	Net Weight
JC-90-001-BT40-ER20-AHD	1-13	232	110	100	132	33	46	1:1	7.3 kg
JC-90-001-BT50-ER40-AHD	1-13	242	110	110	132	33	46	1:1	10 kg

## 90° ANGLE HEAD

### JC-90-003-BT40-ER32-AHA~JC-90-003-BT50-FA25.4-AHC

#### FEATURES

- These series can be applied to Machine Center, Boring Machine, and Milling Machine.
- The base is made of FCD60~65 with tensile strength 60~65 kg/cm<sup>2</sup>
- Uses German P4 class bearing.
- Concentricity: 0.002 mm
- Squareness: 10 Arc Second
- Material: FCD60~FCD65
- R.P.M.: Max. 4000 RPM

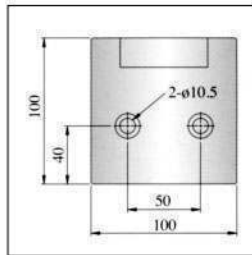


CODE No.	A	B	C	D	E	F	G	H	I	J (Range)	Gear Ratio	Net Weight
JC-90-003-BT40-ER32-AHA	160	40	43	98	86	65	95	50	88	3-20	1:0.81	7.8
JC-90-003-BT40-ER40-AHA	160	40	43	98	86	65	95	63	88	4-26	1:0.81	7.8
JC-90-003-BT50-ER32-AHA	171	40	54	98	86	65	95	50	88	3-20	1:0.81	9.5
JC-90-003-BT50-ER40-AHA	171	40	54	98	86	65	95	63	88	4-26	1:0.81	9.5
JC-90-003-BT40-BT30-AHB	192	44	51	122	97	70	110	66	90	BT-30	1:0.96	12.1
JC-90-003-BT50-BT30-AHB	195	44	54	122	97	70	110	66	90	BT-30	1:0.96	14.7
JC-90-003-BT40-FA25.4-AHC	192	44	51	122	97	70	110	66	90	Face Milling	1:0.96	12.1
JC-90-003-BT50-FA25.4-AHC	195	44	54	122	97	70	110	66	90	Face Milling	1:0.96	14.7

## TOOL LOCKING FIXTURE-FOR HOLDING OUTSIDE DIAMATER(D)

TAIWAN

### ▶ HL-HSK40~HL-BT40

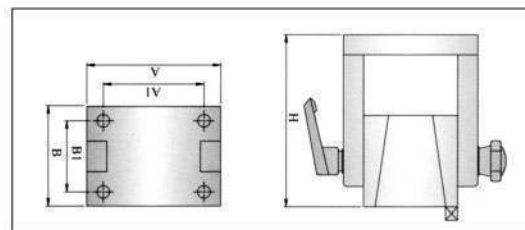


CODE No.	D	
HL-HSK40	40	Without Keyway
HL-HSK50	50	Without Keyway / Suitable NSK30 also
HL-HSK63	63	Without adjustable key
HL-NBT30	46	Without Keyway
HL-BT30	46	With Keyway
HL-BT40	63	With Keyway

## TOOL LOCKING FIXTURE

### ▶ TBS-30~TBS-50

- Easy handling and low cost tool locking fixture on work bench for preparing tools for machining centers.
- Swivel in vertical and horizontal.



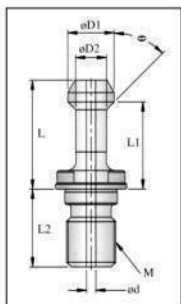
TAIWAN

CODE No.	Taper	H	A	A1	B	B1
TBS-30	ISO30	120	180	80	80	60
TBS-40	ISO40	130	180	80	80	60
TBS-50	ISO50	170	133	100	98	70

## PULL STUDS

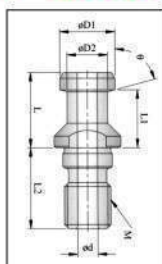
### ▶ 33000-100~35000-1510

TAIWAN



CODE No.	Type	Shank	ØD1	ØD2	ØD	L	L1	L2	θ	M	Remark
33000-100	P30T-1	BT30	11	7	-	23	18	20	45°	M12	MAS- I
33000-200	P30T-2	BT30	11	7	-	23	18	20	60°	M12	MAS- II
34000-100	P40T-1	BT40	5	10	-	35	28	25	45°	M16	MAS- I
34000-200	P40T-2	BT40	15	10	-	35	28	25	60°	M16	MAS- II
34000-300	P40T-3	BT40	15	10	-	35	28	25	90°	M16	90°
34000-1001	P40T-1H	BT40	15	10	3	35	28	25	45°	M16	Collant Hole
34000-401	40PH(JIS6339)	BT40	19	14	7	29	23	25	75°	M16	JIS 6339
34000-1510	PYN40	BT40	18.8	12.45	7	19.11	14.03	25	45°	M16	MAZAK
35000-100	P50T-1	BT50	23	17	-	45	35	40	45°	M24	MAS- I
35000-200	P50T-2	BT50	23	17	-	45	35	40	60°	M24	MAS- II
35000-300	P50T-3	BT50	23	17	-	45	35	40	90°	M24	90°
35000-1001	P50T-1H	BT50	23	17	8	45	35	40	45°	M24	Collant Hole
35000-401	50PH(JIS6339)	BT50	28	21	10	34	25	40	75°	M24	JIS 6339
35000-1510	PYN50	BT50	28.96	20.83	10	25.2	17.58	40	45°	M24	MAZAK

### ▶ 33000-404~35000-404



CODE No.	Type	Shank	ØD1	ØD2	ØD	L	L1	L2	θ	M
33000-404	DIN69872-30	SK30	13	9	-	24	19	20	75°	M12
34000-404	DIN69872-40	SK40	19	14	7	26	20	28	75°	M16
35000-404	DIN69872-50	SK50	28	21	11.5	34	25	40	75°	M24

## INDEXING SPACERS

### SIMPLE INDEX SPACER

▶ 4000-4006~4000-4008

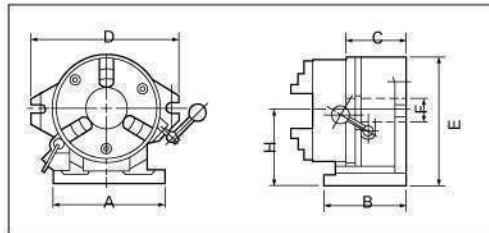


#### STANDARD ACCESSORIES

- Master plates x 6 pcs (2, 3, 4, 6, 8, 12)
- Handle x 1 pc.

#### FEATURES:

- This Simple Index Spacer can be mounted on milling machine, drilling machine and other machine tools for indexing during machining process. equipped CHUCK with big inside diameter, working range is up to 2 1/2" in diameter. Index Spacer can work horizontally and vertically. There are 24-Slots master plate inside Index Spacer, and other subplates in 2,3,4,6,8,12 slots as spare parts.



#### OPTIONAL ACCESSORIES

- Scroll chuck
- Tail stock
- Dividing plates
- Dividing fork set
- Work table

CODE No.	MFG No.	A	B	C	D	E	F	H	Chuck	Hole
4000-4006	CC-6 (6")	188	115	84	254	225	50	130	6"	36
4000-4007	CC-8 (7")	238	148	98	310	270	63	155	7"	63
4000-4008	CC-88 (8")	238	148	98	310	270	63	155	8"	63

▶ 4000-3006~4000-3008

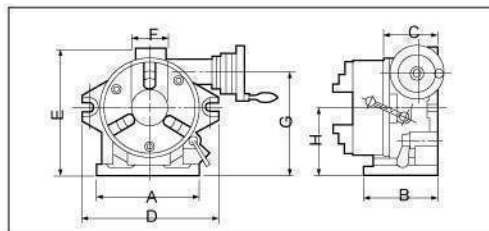


#### STANDARD ACCESSORIES

- Master plates x 6 pcs (2, 3, 4, 6, 8, 12)
- Handle x 1 pc.

#### FEATURES:

- In addition to having all of the various functions of a Simple Index Spacer, the Super Index Spacer can be used as a Dividing Head or Rotary Table when it is equipped with Dividing Plate, Face Plate or 3-Jaw Chuck.



#### OPTIONAL ACCESSORIES

- Scroll chuck
- Tail stock
- Dividing plates
- Dividing fork set
- Work plate

CODE No.	MFG No.	A	B	C	D	E	F	G	H	Chuck	Hole
4000-3006	CS-6 (6")	188	150	113	250	246	50	198	130	6"	36
4000-3007	CS-8 (7")	238	160	124	312	290	63	238	155	7"	63
4000-3008	CS-8 (8")	235	160	124	312	290	63	238	155	8"	63

## OPTIONAL

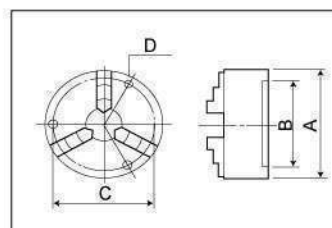
▶ TAIL STOCK



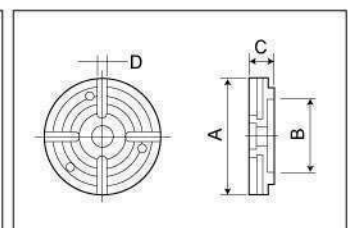
▶ DIVIDING PLATE



SCROLL CHUCK



WORK TABLE





## SEMI-UNIVERSAL DIVIDING HEAD

### SIMPLE INDEX SPACER

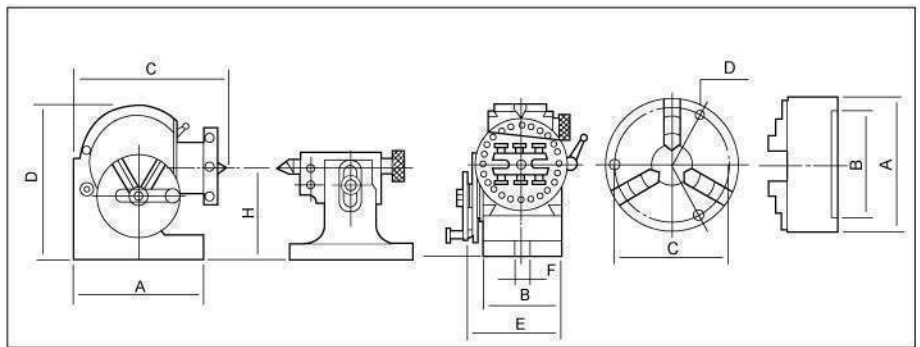
#### ▶ 3502-0000 / 3502-0001

**FEATURES:**

- Semi-Universal Index Center is a simplified type of Universal Index Center and can be used for direct and indirect dividing. Accessories for the differential dividing and spiral work are not included, but the whole construction of the dividing head and tailstock are identical with those of the universal type.
- The direct index plate with 24 holes allows direct dividing in 2,3,4,6,8,12 and 24 and three plates in the standard accessories which make the indirect dividing possible in numbers from 2 to 50 and in certain numbers up to 380.

**REMARK:**

- Operation and Service Manual followed with each of Dividing Head for reference.

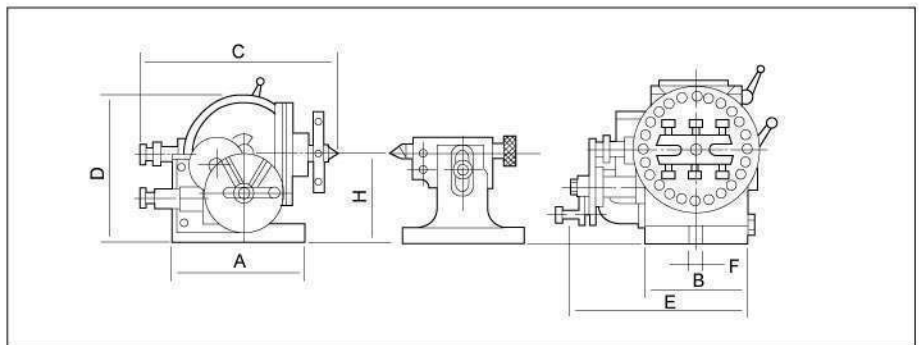


CODE No.	MFG No.	A	B	C	D	E	F	H	Taper	Hole	N.W
3502-0000	BS-0	160	90	188	172	140	18	100	BS-NO-7	18	22
3502-0001	BS1	207	140	292	219	156	18	128	BS-NO-9	20	36

#### ▶ 3502-0002

**FEATURES:**

- The Universal Index Center has been designed to carry out all types of gearcutting, precision dividing and spiral work (except Type BS-0, and BS-1) with greater precision and efficiency. The center face can be tilted from a horizontal position of 90° own to 10° from vertical, and inclinations can be read off a scale graduated in degrees. The center is built with highest engineering standards and is factory-inspected and tested to assure complete satisfaction. The ratio of worm to gear is 1:40



**REMARK:**

Operation and Service Manual with each of Dividing Head for reference.

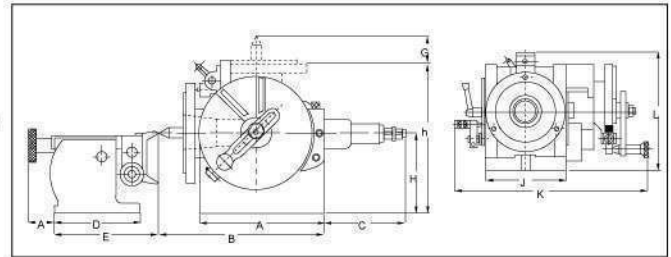
CODE No.	MFG No.	A	B	C	D	E	F	H	Taper	Hole	N.W
3502-0002	BS-2	210	134	365	235	272	18	132.7	BS-NO-10	24	73

## INDEXING SPACERS

TAIWAN

### SIMPLE INDEX SPACER

► 3503-0003



- Combine good points from many kinds of dividing head. Used in dividing, gear cutting, rack gear milling, etc...
- Spindle hole's diameter 55.5mm. Can fit 3-jaw clamp. Spindle Taper : MT6#Dividing head adjustable from horizontal to vertical (0°~90°)
- Harden & ground spindle, worm and worm gears.
- Special design on tail stock's connect. Tail stock can bear heavy load, and adjustable forward, backward, upward as well as angle adjustable.
- 25.4mm gear center hole.
- Worm : Worm Gear = 1 : 40
- Dividing board : A side & B side  
A side : 24, 25, 28, 30, 34, 37, 39, 41, 42, 43.  
B side : 46, 47, 49, 51, 53, 54, 57, 58, 59, 62, 66.
- Change Gear : 24, 28, 32, 38, 40, 44, 48, 56, 64, 72, 86, 100.
- Operator's manual and Precise Dividing Table included.

**OPTIONAL ACCESSORY**

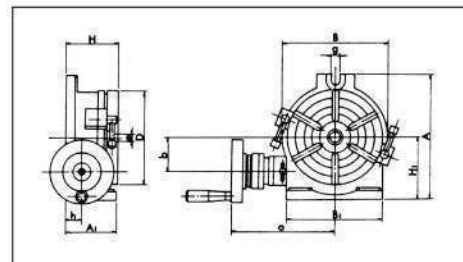
• 3-JAW CHUCK 7"

CODE No.	Mfg. No.	A	B	C	D	E	F	G	H	h	J	K	L	L x W x H	Net Weight
3503-0003	SCM-2	242	322	152	166	198	50	52	146	278	194	465	290	640 x 590 x 430 mm	150 kgs

## PRECISION ROTARY TABLE 3501 SERIES

TAIWAN

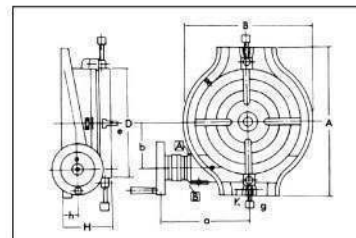
► 3501-0006~3501-0014



### Horizontal/Vertical Type

CODE No.	Table			Base Dimension			Width of T-slot		Bolt Slots	Center Sleeve	Weight kg / lbs	Worm Gear Ratio
	Outer Diameter		Height	H1	A	B	e	Type				
	A	D	H									
3501-0006	80 / 3.15	150 / 5.91	82 / 3.23	100 / 3.94	200 / 7.87	195 / 6.69	11 / 0.43	⊕	14 / 0.55	MT-2	12 / 26.4	90:1
3501-0008	110 / 3.94	204 / 8.03	106 / 4.17	130 / 5.12	265 / 10.43	220 / 8.66	11 / 0.43	⊕	16 / 0.63	MT-3	30.0 / 66.1	90:1
3501-0010	110 / 4.33	254 / 10	115 / 4.53	162 / 6.38	322 / 12.68	280 / 11.02	13 / 0.51	⊗	17 / 0.67	MT-3	48.0 / 105.8	90:1
3501-0012	128 / 5.04	303 / 11.93	132 / 5.20	197 / 7.76	592 / 15.43	330 / 12.99	16 / 0.63	⊗	17 / 0.67	MT-4	77.0 / 169.7	90:1
3501-0014	1.30 / 5.12	350 / 13.78	140 / 5.51	230 / 9.06	450 / 17.72	380 / 14.96	16 / 0.55	⊗	18 / 0.71	MT-4	95.0 / 209.4	90:1

► 3501-1006~3501-1014



### Horizontal Type

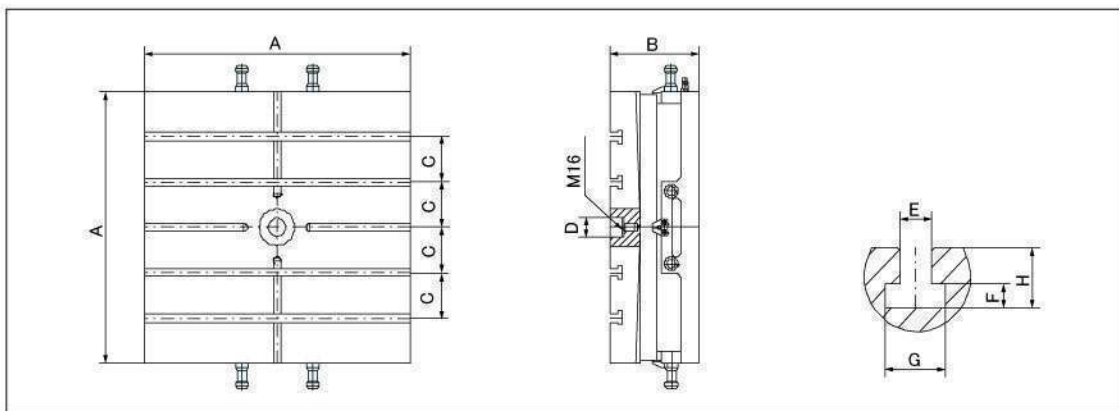
CODE No.	Table		Base Dimension		Width of T-slot		Bolt Slots	Center Sleeve	Weight kg / lbs	Worm Gear Ratio
	Outer Diameter		A	B	e	Type				
	D	H								
3501-1006	150 / 5.91	78 / 3.07	210 / 8.27	184 / 7.24	11 / 0.43	⊕	10 / 0.39	MT-2	12 / 26.4	90:1
3501-1008	204 / 8.03	105 / 4.13	280 / 11.02	250 / 9.84	11 / 0.43	⊕	14 / 0.55	MT-3	30.0 / 66.1	90:1
3501-1010	254 / 10	115 / 4.53	340 / 13.39	300 / 11.81	13 / 0.51	⊗	15 / 0.63	MT-3	48.0 / 105.8	90:1
3501-1012	303 / 11.93	135 / 5.32	400 / 15.75	364 / 14.33	16 / 0.63	⊗	18 / 0.71	MT-4	77.0 / 169.7	90:1
3501-1014	350 / 13.78	140 / 5.51	460 / 18.11	420 / 16.54	16 / 0.55	⊗	18 / 0.71	MT-4	95.0 / 209.4	90:1

## SUPER INDEXING TABLE-PNEUMATIC & MANUAL TYPE



### ► 2001-0450~2001-1500

- All table made by rigid FCD60 JIS ductile quality cast iron with 60 kgs/mm<sup>2</sup>.
- All table built in two pieces HIRTH Coupling for position indexing.
- All table surface are precision ground. (size 1400 and 1500 except-but machining)
- All table rotating - Clockwise & counter Clockwise.
- All table Clamping by Pneumatic & Manual 5-8 Kg/cm<sup>2</sup>.
- All table concentricity of center spindle reach 0.01 mm
- Tables index accuracy reach + 3 second.
- Min. Indexing degree - 1 deg. Or 5 ged.



Code No.	Mfgr No.	Flatness of Table Surface	Both Surface Parallel	Concentricity With T-slot	T-slot Right Angle	Right Angle of Table Side	A	B	C	D	E	F	G	H	N.W.
2001-0450	SIT- 450	0.015	0.015	0.015	0.015	0.015	450 x 450	170	100	30	18	12	30	30	200
2001-0500	SIT- 500	0.02	0.02	0.02	0.02	0.02	500 x 500	170	100	30	18	12	30	30	225
2001-0600	SIT- 600	0.02	0.02	0.02	0.02	0.02	600 x 600	200	100	40	20	14	34	34	385
2001-0700	SIT- 700	0.02	0.02	0.02	0.02	0.02	700 x 700	200	125	40	20	14	34	34	448
2001-0800	SIT- 800	0.02	0.02	0.02	0.02	0.02	800 x 800	280	100	60	22	16	37	38	900
2001-0900	SIT- 900	0.03	0.03	0.02	0.03	0.03	900 x 900	280	125	60	22	16	37	38	1000
2001-1000	SIT-1000	0.03	0.03	0.02	0.03	0.03	1000 x 1000	300	125	60	22	16	37	38	1200
2001-1100	SIT-1100	0.03	0.03	0.02	0.03	0.03	1100 x 1100	300	150	60	22	16	37	38	1300
2001-1200	SIT-1200	0.03	0.03	0.02	0.03	0.03	1200 x 1200	340	150	80	22	16	37	38	2000
2001-1300	SIT-1300	0.05	0.05	0.04	0.05	0.05	1300 x 1300	340	150	80	22	16	37	38	2250
2001-1400	SIT-1400	0.05	0.05	0.04	0.05	0.05	1400 x 1400	360	200	80	22	16	37	38	3000
2001-1500	SIT-1500	0.05	0.05	0.05	0.05	0.05	1500 x 1500	360	200	80	22	16	37	38	3300

Code No.	Table Size (A) (mm x mm)	Register Dia. On Face Table (D)	Total Height (B)	T-slots (E)	Number Of T-slots & Pitch (C)	Table Lifting & Lock Down Stroke	Max. Load Weight In Theory	Allowable Load Weight (W)	Clamped Capacity	N.W.
2001-0450	450 x 450	φ 30	170 mm	18	100 x 4	5 mm	2500 kgs	1100 kgs	2200 kgs	200 kgs
2001-0500	500 x 500	φ 30	170 mm	18	100 x 5	5 mm	2500 kgs	1100 kgs	2200 kgs	225 kgs
2001-0600	600 x 600	φ 40	200 mm	20	100 x 5	5 mm	3500 kgs	2200 kgs	3200 kgs	400 kgs
2001-0700	700 x 700	φ 40	200 mm	20	125 x 5	5 mm	3500 kgs	2200 kgs	3200 kgs	480 kgs
2001-0800	800 x 800	φ 60	280 mm	22	100 x 7	8 mm	5000 kgs	3500 kgs	4500 kgs	900 kgs
2001-0900	900 x 900	φ 60	280 mm	22	125 x 7	8 mm	5000 kgs	3500 kgs	4500 kgs	1000 kgs
2001-1000	1000 x 1000	φ 60	300 mm	22	125 x 7	8 mm	7000 kgs	6000 kgs	6000 kgs	1200 kgs
2001-1100	1100 x 1100	φ 60	300 mm	22	150 x 7	8 mm	7000 kgs	6000 kgs	6000 kgs	1300 kgs
2001-1200	1200 x 1200	φ 80	340 mm	22	150 x 7	8 mm	8400 kgs	7000 kgs	7000 kgs	2000 kgs
2001-1300	1300 x 1300	φ 80	340 mm	22	150 x 7	8 mm	8400 kgs	7000 kgs	7000 kgs	2250 kgs
2001-1400	1400 x 140	φ 80	360 mm	22	200 x 7	8 mm	9000 kgs	8000 kgs	8000 kgs	3000 kgs
2001-1500	1500 x 1500	φ 80	360 mm	22	200 x 7	8 mm	9000 kgs	8000 kgs	8000 kgs	3300 kgs

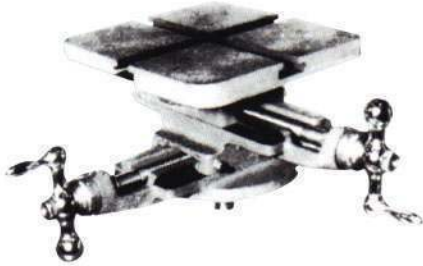
• Standard accessories with tables - Clamping Kit - 4 pcs./ clamping bolt x 4 pcs./Nut- 4 pcs.

## PRECISION CROSS TABLE 4110 SERIES

TAIWAN

### ECONOMIC EXECUTION 7" x 7" MILLING/DRILLING TABLE

▶ 4110-0707



- Dial revolution: 2 mm (0.1")
- Overall height: 105 mm (4-1/8")
- Travel: 125 mm (5") on each axis
- Base: 117.5 mm (4-5/8") diameter with tegral 28.575 mm (1-1/8") long base bolt for mounting.
- Net weight: 8.5 kgs (18 lbs)

### MEDIUM DUTY MILLING/DRILLING TABLE

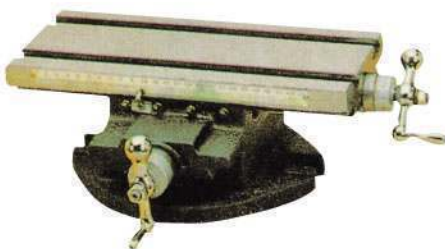
▶ 4110-1547



- Overall height: 127 mm (5")
- Table size: 152.4 x 462.3 mm (6 x 18-1/2")
- T-Slot spacing: 14 mm (9/16")
- Travel: Longitudinal-280 mm (11") Cross-190.5 mm (7-1/2")
- Base: 203.2 mm x 266.7 mm (8" x 10-1/2") with U-solt-up to 16 mm (5/8")
- Net weight: 25.4 kgs (56 lbs)

### HEAVY DUTY MILLING/DRILLING TABLE

▶ 4110-0824



- Dial revolution: 2 mm (0.1")
- Table size: 200 x 600 mm (8" x 24" )
- T-Slot spacing: 14mm (9/16")
- Travel: Longitudinal-400 mm (16")  
Cross-200 mm (8")
- Net weight: 75 kgs (165.3 lbs)

### 3 WAYS WORKING TABLE

▶ 4110-3128



- Table size: 255 x 335 mm (10" x 13.2") Thickness-34 mm (1-1/4" )
- Swivel: 360 degree
- Tilting: L & R -45 degree , F & R -45 degree
- T-Slot spacing: 22 mm (7/8")
- Travel: Longitudinal-400 mm (16")
- Base: 163 x 265 mm (6.42" x 10.43") with 12 mm (1/2") U-bolt
- Net weight:

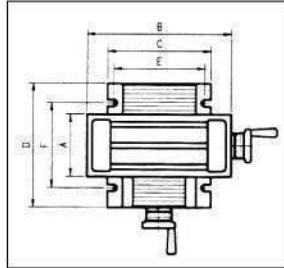
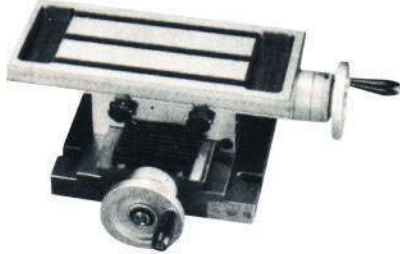


## PRECISION CROSS TABLE 4110 SERIES



MADE OF DUCTILE CAST IRON FCD30

► 4110-1001~4110-2502



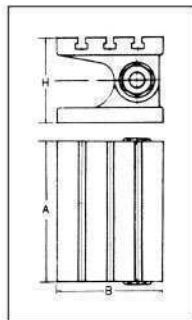
- Adjustable gibs for heavy duty and high precision jobs
- Precision hand scrap reached parallelism-0.03 mm/per 300 mm. (Any higher precision for parallelism more than 0.03 mm/per 300 mm is available upon your request)

CODE No.	Table Size	Travel Cross	T-slot	Dial Revolution	Packing L x w x hm/m	Net Weight
4110-1001	100 x 185 (3.94" x 7")	50 x 80 (1.97" x 3.1")	10 mm (3/8")	2 mm (0.1")	290 x 240 x 140 (11.4" x 9.4" x 5.5")	12 kg / 13.5 kg
4110-1501	150 x 350 (5.9" x 13")	150 x 175 (5.9" x 6.9")	10 mm (3/8")	4 mm (0.2")	510 x 450 x 240 (20" x 17.7" x 9.4")	31 kg / 37.5 kg
4110-2001	200 x 500 (7.88" x 19.7")	200 x 250 (7.9" x 10")	10 mm (3/8")	4 mm (0.2")	670 x 560 x 280 (26.3" x 22" x 11")	60 kg / 73 kg
4110-2501	250 x 600 (3.94" x 23.6")	250 x 300 (9.8" x 11.8")	13 mm (1/2")	4 mm (0.2")	790 x 680 x 310 (31" x 26.7" x 12.2")	119 kg / 141 kg
4110-2502	250 x 800 (3.94" x 31.5")	250 x 500 (9.8" x 19.7")	13 mm (1/2")	4 mm (0.2")	1000 x 680 x 310 (39.3" x 26.7" x 12.2")	139 kg / 165 kg

## ANGLE PLATE+TABLE-VISE4011 SERIES



► 4011-0806~4011-1210

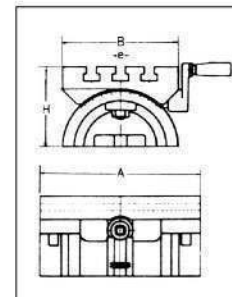


CODE No.	Table			T-Slot Spacing	Net weight
	A	B	H		
4011-0806	204 mm (8")	154 mm (6")	130 mm (4-3/4")	10 mm (3/8")	12 kg
4011-1008	256 mm (10")	204 mm (8")	170 mm (6")	12 mm (1/2")	22 kg
4011-1210	306 mm (12")	254 mm (10")	197 mm (7")	14 mm (1/2")	40 kg

## TILTING TABLES

► 4011-0605~4011-2412

- 45 degree range for sliding adjustment
- Made of solid casting iron
- Graduated in degree for setting purposes
- Sturdily built tilting table has machined T-slots
- Tow screw to locking setting



CODE No.	Table			T-slot e	Net Weight
	A	B	H		
4011-0605	180 mm (7")	130 mm (5")	90 mm (3-1/2")	10 mm (3/8")	7.5 kg
4011-1007	250 mm (10")	178 mm (7")	133 mm (5-1/4")	12 mm (5/16")	22.5 kg
4011-1510	380 mm (15")	260 mm (10-1/4")	185 mm (7-1/4")	16 mm (5/8")	69 kg
4011-2412	600 mm (23-5/8")	300 mm (11-3/4")	205 mm (8")	16 mm (5/8")	100 kg

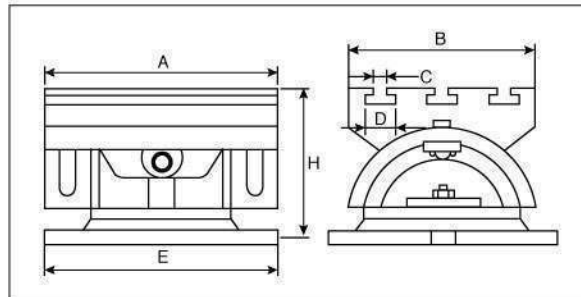
## ANGLE PLATE+TABLE-VISE4011 SERIES

TAIWAN

### TILTING TABLES WITH INDEXING BASE

#### ▶ 4011-0605~4011-1410

- Same feature as Tilting table but with 360 degree index swivel base.

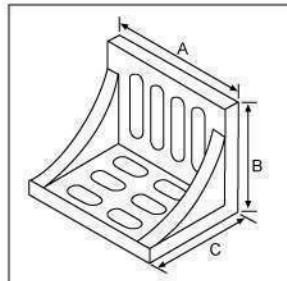
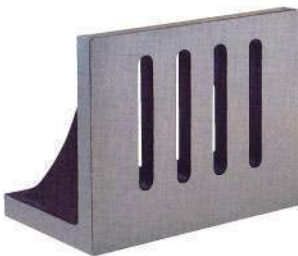


CODE No.	Mfg. No.	A	B	C	D	E	H	Net Weight
4011-0605	UCK-180	182	132	12	22	242	138	18 kg
4011-1022	UCK-250	260	182	16	26	330	197	40 kg
4011-1410	UCK-380	385	265	16	26	426	248	85 kg

### SLOTTED ANGLE PLATES

#### ▶ 4011-0304~4011-1209

- Made of high tensile cast iron .
- Slots are made for Max. clamping versatility.
- Webbed end style accurately machined, square and parallel on outside force and ends.
- Open end style machined on all surfaces except the slots.



CODE No.	A	B	C	Net Weight
4011-0304	112 mm (4")	85 mm (3-3/5")	75 mm (3")	2 kg
4011-0605	150 mm (6")	125 mm (5")	112 mm (4")	3.5 kg
4011-0807	200 mm (8")	150 mm (6")	125 mm (5")	7 kg
4011-1008	250 mm (10")	200 mm (8")	150 mm (6")	12 kg
4011-1209	300 mm (12")	225 mm (11")	200 mm (8")	25 kg

## PRECISION ANGLE BLOCKS+SQUARES

TAIWAN

### PRECISION MACHINIST SQUARE (DUAL)

#### ▶ 4012-2202~4012-2212

- Made of tool steel: SKS3
- Hardness reaches to HRC: 60°
- Square tolerance: 0.003 mm
- With one long slot.



CODE No.	Size	Tolerance
4012-2202	40 x 25 x 10 mm (1-5/8" x 1" x 3/8")	0.003
4012-2203	78 x 48 x 10 mm (3" x 1-1/2" x 3/8")	0.003
4012-2204	100 x 70 x 8 mm (4" x 3" x 5/16")	0.003
4012-2206	150 x 100 x 8 mm (6" x 4" x 5/16")	0.003
4012-2208	200 x 130 x 10 mm (8" x 5" x 3/8")	0.005
4012-2210	250 x 160 x 12 mm (10" x 6" x 1/2")	0.005
4012-2212	300 x 200 x 15 mm (12" x 8" x 5/8")	0.005

## PRECISION MILLING VISE

TAIWAN

### ▶ 7000-AT09~7000-AT04

- All main parts made by FCD60 ductile iron.
- Sealed bearing system provide long working life stationary jaw has machined keyway for alignment of the vise and included alignment rail for quick setup.
- Up to 8200 lbs (37800 Nm) of clamping force.
- 10 years limited guarantee.
- Bed height accuracy reach - + 0.0005".



CODE No.	Size	Opening of Jaw	Depth of Jaw	Height	Net Weight
7000-AT09	226 mm (9")	226 mm	44.5 mm	117 mm	36 kgs
7000-AT10	260 mm (10")	259 mm	56 mm	144 mm	75 kgs
7000-AT07	192 mm (7")	192 mm	44.5 mm	117 mm	32 kgs
7000-AT05	127 mm (5")	127.5 mm	38.1 mm	101.6 mm	25 kgs
7000-AT04	100 mm (4")	103.9 mm	35 mm	92 mm	18 kgs

## MECHANICAL POWER MACHINE VISE

TAIWAN

### ▶ 7000-M005~7000-M008

- All main parts are made of highest quality FCD55 case iron.
- All slide ways are treated by hardened and precision ground with HRC-45 degree.
- Special unique BALL design structure to furnish superior holding strength.



CODE No.	Size	Opening of Jaw	Depth of Jaw	Net Weight
7000-M005	125 mm	220 mm	46 mm	37 kgs
7000-M006	160 mm	300 mm	61 mm	57 kgs
7000-M008	200 mm	300 mm	61 mm	104 kgs

## PRECISION VERSATILE VISE

TAIWAN

### ▶ 7000-MG60 / 7000-MGR6

- All main parts are made of FCD60 high quality cast iron.
- All slide ways are treated by hardened and precision ground with HRC-45 degree.
- Mounted vertical or Horizontal positions.
- Stationary Jaw has machined keyway for alignment of the vise and included alignment rail for quick setup.
- Bed Height - 3.187" + 0.0005"



CODE No.	Size	Opening of Jaw	Depth of Jaw	Net Weight
7000-MG60	160 mm (6")	163 mm	45 mm	31 kgs
7000-MGR6	160 mm (6")	163 mm	45 mm	31 kgs

## PRECISION CNC MACHINE VISE

TAIWAN

### ▶ 7000-AMC-5 / 7000-AMC-6

- All main parts are made of FCD60 ductile iron.
- High precision ground slideways with hardened.
- Sealed bearing system provide long working life.
- Stationary Jaw has machined keyway for alignment of vise and alignment rail for quick setup.



CODE No.	Size	Opening of Jaw	Depth of Jaw	Net Weight
7000-AMC-5	125 mm (5")	125 mm	40 mm	17 kgs
7000-AMC-6	150 mm (6")	148 mm	44.5 mm	31 kgs

## SUPER PRECISION MACHINE VISE

TAIWAN

### ▶ 7000-LQ06 / 7000-LQ08

- High Clamping Force & Extra out-Jaw Clamping Capacity
- Clamping force reach to - 160 mm (6")-5500 kg/cm<sup>2</sup>, 200 mm (8") reach to 6500 kg/cm<sup>2</sup>.
- Mechanical booster design. Freely adjustable torque.
- Anti-lift mechanism ensure the workpiece does not lift- Max.-0.01 mm
- Clamping work-piece resiliently with the aid of "DISC - SPRING" mounted inside
- High accuracy for Vise length < 0.01 mm as well as the length of machine vise < 0.01 mm



CODE No.	Size	Base Height	Base Length	Max. Jaw opening	Depth of Jaw	Net Weight
7000-LQ06	160 mm (6")	115 mm	515 mm	320 mm	63 mm	80 kgs
7000-LQ08	200 mm (8")	120 mm	585 mm	347.44 mm	68 mm	117 kgs

### ▶ 7000-VQ04~7000-VQ08



CODE No.	Size	Base Height	Base Length	Max. Jaw opening	Depth of Jaw	Net Weight
7000-VQ04	100 mm (4")	85 mm	324 mm	140 mm	55 mm	32 kgs
7000-VQ05	125 mm (5")	100 mm	385 mm	203 mm	63 mm	49 kgs
7000-VQ06	160 mm (6")	115 mm	480 mm	275 mm	63 mm	80 kgs
7000-VQ08	200 mm (8")	120 mm	530 mm	300 mm	65 mm	117 kgs

## SHAPING VISE

### ▶ 7000-SV12~7000-SV20

- All main parts made by quality cast iron.
- For large work piece clamping.



TAIWAN

CODE No.	Size	Jaw Width	Jaw Dept	Opening of Jaws	Net Weight
7000-SV12	300 mm (12")	300 mm (12")	70 mm (2-3/4")	300 mm (12")	75 Kgs (165 Lbs)
7000-SV16	400 mm (16")	400 mm (16")	85 mm (3-3/8")	400 mm (16")	130 Kgs (286 Lbs)
7000-SV20	500 mm (20")	500 mm (20")	95 mm (3-3/4")	500 mm (20")	180 Kgs (397 Lbs)

## SUPER OPENING MILLING VISE

### ▶ 7000-1104~7000-1106

- Base on K Type milling vise.
- With same structure as K Type milling machines.



TAIWAN

CODE No.	Size	Jaw Width	Jaw Dept	Opening of Jaws	Net Weight
7000-1104	100 mm (4")	110 mm (4.33")	37 mm (1.45")	190 mm (7.48")	21 Kgs (46 Lbs)
7000-1105	125 mm (5")	152 mm (6")	54 mm (2.12")	300 mm (12")	45 Kgs (90 Lbs)
7000-1106	160 mm (6")	200 mm (8")	60 mm (2.36")	350 mm (14")	75 Kgs (165 Lbs)

## SUPER OPENING INCLINABLE AND SWIVEL MILLING VISE

TAIWAN

### ▶ 7000-2104 / 7000-2105

- Base on K Type milling vise.
- With same structure as K Type milling vise.
- With Inclunable 0-50 degree and 360 degree swiveling.



CODE No.	Size	Jaw Width	Jaw Dept	Opening of Jaws	Net Weight
7000-2104	100 mm (4")	104 mm (4")	36 mm (1-3/8")	170 mm (6-3/8")	29 Kgs (64 Lbs)
7000-2105	125 mm (5")	156 mm (6")	58 mm (2-1/4")	310 mm (12")	58 Kgs (127 Lbs)

## MACHINE VISES



### TIGHT-LOCK PRECISION MILLING MACHINE VISES

#### ▶ 7000-0004~7000-0008

- The vise bed is made of ductile cast iron which resists deflection bending.
- Flame hardened bed for wear resistance.
- Hardened and ground jaw plate.
- Ground surface top and bottom of vise bed, top of both jaw in pairs, all jaw plate mounting surfaces.
- Needle bearing of thrust collar, cuts friction and adds clamping power
- The swivel base is graduated 360 degree.
- Swevel handle.



CODE No.	Jaw Width	Jaw Height	Max. Opening	Overall Height	Net Weight
7000-0004	100 mm (4")	31 mm (1-1/8")	100 mm (4")	85 mm (3-3/8")	21 kgs (46 Lbs)
7000-0005	125 mm (5")	33 mm (1-5/16")	108 mm (4-1/4")	87 mm (3-13/16")	33 kgs (72.7 Lbs)
7000-0006	160 mm (6")	38 mm (1-1/2")	167 mm (6-1/4")	110 mm (4-3/8")	50 kgs (110 Lbs)
7000-1006	160 mm (6")	42 mm (1-5/8")	198 mm (7-7/8")	114 mm (4-1/2")	52 kgs (115 Lbs)
7000-0008	200 mm (8")	50 mm (2")	201 mm (7-1/2")	130 mm (5-5/16")	110 kgs (242 Lbs)

### PRECISION CNC MACHINE VISES

#### ▶ 7000-0160 / 7000-0100

- Manufactured to same high standard of quality as our regular vise.
- May be mounted on its side as well as upright.
- Spherical segment allows multi-directional alignment-free jaw lift and work tilt.
- Vise main parts made of Rigid ductile cast iron which resists deflection.
- Thrust bearing increase clamping pressure up to 80% Ideal for multiple vise set-ups.

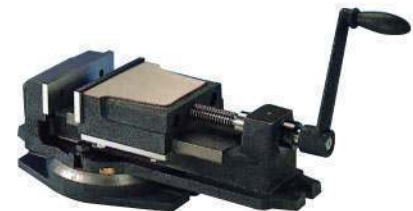
CODE No.	Jaw Width	Total Height	Net Weight
7000-0160	152 mm (6")	117 mm (45/8")	32 Kgs (70.5 Lbs)
7000-0100	102 mm (4")	108 mm (41/2")	20 Kgs (44 Lbs)



### K-TYPE PRECISION GROUND MILLING VISES

#### ▶ 7000-0104~7000-0108

- Ground surface of a. top and bottom of vise bed. b. moveable jaw and jaw base. c. gib piece of moveable jaw d. All plate mounting surface.
- Jaw plates of hardened and ground tool steel, Bearing portion of Acme threaded lead screw stock is ground for accurate alignment.
- Body, moveable jaw and swivel base made of high tensile cast iron.
- Stress-relieved by annealing. Built for heavy duty machining and retained accuracy.
- Bronze Bushings for longer life.



CODE No.	Size	Jaw Width	Jaw Depth	Opening of Jaws	Net Weight
7000-0104	100 mm (4")	100 mm (4")	32 mm (1-1/8")	65 mm (2-9/16")	10 kgs (22 Lbs)
7000-0105	125 mm (5")	125 mm (5")	34 mm (1-1/2")	85 mm (3-1/8")	16 kgs (41.8 Lbs)
7000-0106	160 mm (6")	150 mm (6")	40 mm (1-5/8")	110 mm (4-1/2")	28 kgs (60 Lbs)
7000-0107	160 mm (6")	150 mm (6")	40 mm (1-5/8")	155 mm (6")	35 kgs (71 Lbs)
7000-0108	200 mm (8")	200 mm (8")	58 mm (2-1/4")	155 mm (6")	54 kgs (119 Lbs)

### B-TYPE PRECISION GROUND MILLING VISES

#### ▶ 7000-0204~7000-0206

- All vise main parts Made of Ductile cast iron.
- All bed and slide are precision ground.
- Moveable jaw and jaw base are precision ground. And all Jaws made by selected steel with hardened and ground.
- Bronze Bushing for longer operation life.



CODE No.	Size	Jaw Width	Jaw Depth	Opening of Jaws	Net Weight
7000-0204	100 mm (4")	100 mm (4")	33 mm (1-1/4")	65 mm (2-5/8")	10 kgs (22 Lbs)
7000-0205	125 mm (5")	125 mm (5")	37 mm (1-1/2")	100 mm (4")	25 kgs (55 Lbs)
7000-0206	150 mm (6")	150 mm (6")	40 mm (1-5/8")	114 mm (4-1/2")	39 kgs (86 Lbs)

## HYDRAULIC MACHINE VISE

TAIWAN

### ▶ 7000-0604~7000-0608

- All main parts made of highest quality FCD55 case iron. All sideways are treated by hardened and precision ground with HRC-45 degree. Jaw is made of special steel with hardened and ground. Clamping force freely is adjustable. Hydraulic booster (system) bulids in. Vise base with 3 positions locking hole for 0-100 mm (0-4"), 98-200 (4-8") and 195-300 mm (8-12") by locking pin.



CODE No.	Size	Opening of Jaw	Depth of Jaw	Net Weight	Swivel Base
7000-0604	100 mm (4")	170 mm (6-1/4")	36 mm (1-1/2")	24 kgs (53 Lbs)	6.5 kgs (14.32 Lbs)
7000-0605	125 mm (5")	220 mm (8-5/8")	46 mm (1-3/4")	37 kgs (81.5 Lbs)	12.5 kgs (27.5 Lbs)
7000-0606	150 mm (6")	300 mm (12")	61 mm (2-1/2")	57 kgs (125.5 Lbs)	16.5 kgs (36.3 Lbs)
7000-0608	200 mm (8")	300 mm (12")	62 mm (2-3/8")	104 kgs (229 Lbs)	16.5 kgs (36.3 Lbs)

## ULTRA JAW OPENING WIDER MACHINE VISE

TAIWAN

### ▶ 7000-0314~7000-0416

- The Vise with same constructions as our 7000-0304-0308. But leadscrew totally enclosed and Jaw max. Wider opening capacity.



CODE No.	Size	Width of Jaw	Depth of Jaw	Jaw Opening	Net Weight
7000-0314	100 mm (4")	98 mm (3-3/4")	35 mm (1-3/8")	142 mm (5-3/8")	10 kgs (22 Lbs)
7000-0415	125 mm (5")	124 mm (5")	40 mm (1-5/8")	182 mm (6-5/8")	25 kgs (52 Lbs)
7000-0416	150 mm (6")	150 mm (6")	46 mm (1-3/4")	216 mm (8-1/2")	39 kgs (88 Lbs)

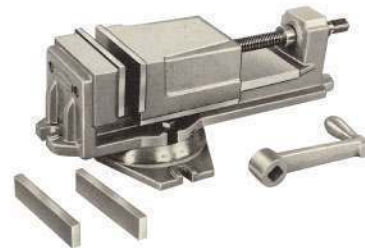
- 7000-0424 and 7000-0425 are with swivel base. Net weight-18 kgs and 44 kgs.

## ULTRA HIGH MACHINE VISE

TAIWAN

### ▶ 7000-0206

- All same construction as our K-Type milling vise but with ultra depth Jaws.



CODE No.	Size	Width of Jaw	Depth of Jaw	Jaw Opening	Net Weight
7000-0206	160 mm (6")	150 mm (6")	75 mm (3")	150 mm (6")	34 kgs (75 Lbs)

## UNIVERSAL 3 WAY ANGLE VISE

TAIWAN

### ▶ 7000-0504~7000-0506

- Swivel base scale in 360 degree. Upper angel setting base can incline from the horizontal position to the vertical position. Lower angle setting base can incline up to 45 degree in both right and left directions.
- Standard tolerance for most toolroom requirement:
- Jaw parallelism-0.02 mm. Squareness from sliding surface to jaw plate 0.02 mm. Swivel surface to base 0.02 mm.



CODE No.	Size	Width of Jaw	Depth of Jaw	Jaw Opening	Net Weight
7000-0504	80 mm (3-1/8")	80 mm (3-1/8")	30 mm (1-3/16")	89 mm (3-1/2")	14.5 kgs (32 Lbs)
7000-0505	100 mm (4")	104 mm (4-1/8")	40 mm (1-9/16")	104 mm (4-1/8")	37 kgs (82 Lbs)
7000-0506	125 mm (5")	130 mm (5-1/8")	52 mm (2-1/16")	146 mm (5-3/4")	44 kgs (96 Lbs)

## TILTING AND SWIVEL MACHINE VISE

TAIWAN

### ▶ 7000-0304

- Vise mounts on an angle base, quickly setting angle from 0-45 degree.
- All main parts made of ductile case iron. All sideways are precision grounds.
- Jaw and Jaw bases are precision ground and all jaw made by selected steel with hardened and ground. Precision leadscrew fully covered. swivel base with two bolt lugs for easily mounts on the machine's working table.



CODE No.	Size	Width of Jaw	Depth of Jaw	Jaw Opening	Net Weight
7000-0304	110 mm (4-3/8")	104 mm (4-1/8")	46 mm (1-7/8")	100 mm (4")	25 kgs (51 Lbs)

## UNIVERSAL PRECISION VICE-HEAVY DUTY TYPE 3-WAYS

TAIWAN

### ▶ 7000-0404

- All parts made of quality cast iron, Machine sideways are precision ground. Jaw and Jaw base is precision ground and jaw made by selected steel with hardened and ground. Leadscrew fully covered. The vise can be set into any position and angle, by means of rotary inter-middle flange, top of flange with graduation for swiveling and base of flange fitted onto swivel base.



CODE No.	Size	Width of Jaw	Depth of Jaw	Jaw Opening	Net Weight
7000-0404	100 mm (4")	98 mm (3-3/4")	27 mm (1-1/8")	95 mm (3-3/4")	25 kgs (51 Lbs)

## HYDRAULIC & ENGAGEMENT MILLING VICE

TAIWAN

### ▶ 7000-2060 / 7000-3060

- All vice have the same structure as Our Code No. 7000-0606 Vice, But built on 2 or 3 vice engaged.



CODE No.	Size	Clamping Range	Clamping For	Jaw Height	Net Weight
7000-2060	160 mm (6")	0-100 / 98-200 / 198-300 mm	5000 kgs	51 mm (2")	145 Kgs (320 Lbs)
7000-3060	160 mm (6")	0-100 / 98-200 / 198-300 mm	5000 kgs	51 mm (2")	205 Kgs (451 Lbs)

## HEAVY DUTY PRECISION MACHINE VICE

TAIWAN

### ▶ 7000-7104 / 7000-7106

- Same structure as 7000-7006 with T-slot of both size of machine base.



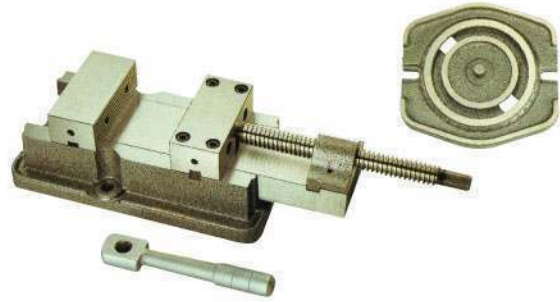
CODE No.	Jaw Width	Jaw Dept	Opening of Jaws	Net Weight
7000-7104	101 mm (4")	31.5 mm (1-1/4")	100 mm (4")	14 Kgs (31 Lbs)
7000-7106	152.5 mm (6")	44 mm (1-5/8")	145 mm (5-3/4")	31 Kgs (68 Lbs)

## HEAVY DUTY PRECISION SUPER MILLING VISE

TAIWAN

### ▶ 7000-7006

- Stationary front Jaw.
- The back jaw moves along with the slide to reduce the tendency towards deflection the work-piece from tilting.
- Jaw and body are made of steel.
- Hardened and ground on all sliding and contacting surfaces.
- Ideal for CNC machine center and heavy type milling machines.



CODE No.	Jaw Width	Jaw Opening	Jaw Depth	Overall Height	Net Weight
7000-7006	145 mm (6")	210 mm (8-1/4")	48 mm (1-7/8")	127 mm (5")	44 Kgs (96.8 Lbs)

## A TYPE SUPER LOW MILLING MACHINE VISE

TAIWAN

### ▶ 7000-8006

- Vice body made of High grade cast iron.
- Low overall height.
- Moving jaw runs in long prismatic slides with provision for wear adjustable.
- Hardened enclosed ACME screw with Phosphor Bronze Nut.
- Drop forge handle included.
- Adjustable Positions.
- Optional swivel base available on request.



CODE No.	Jaw Width	Jaw Opening	Jaw Depth	Overall Size of Base	Clamping Bolt Centers	Net Weight
7000-8006	150 mm (6")	165 mm (6")	50 mm (2")	440 x 220 mm (17-3/8" x 8-5/8")	100 mm (4")	34 kgs (75 Lbs)

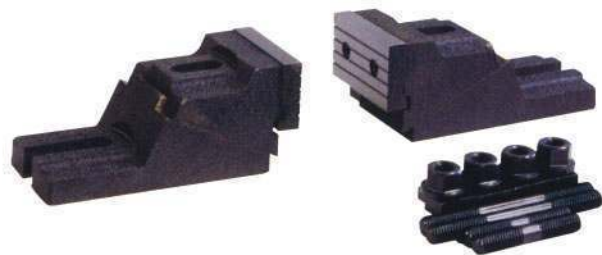
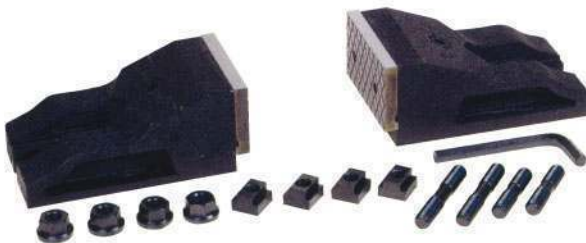
## FREE VICEE

TAIWAN

- Selected special steel with hardened and grounded.
- Free clamping length.

### ▶ 7000-SV62~7000-SV125

### ▶ 7000-FV350~7000-FV55



CODE No.	Size	Jaw Width	Jaw Height	Net Weight
7000-SV62	187 x 158 x 987 mm	62 mm (2-3/8")	56 mm (2-1/8")	8 Kgs (17.6 Lbs)
7000-SV85	232 x 165 x 107 mm	85 mm (3-3/8")	82 mm (2-1/4")	16 Kgs (35.3 Lbs)
7000-SV125	255 x 195 x 138 mm	125 mm (5")	130 mm (5-1/8")	25 Kgs (55 Lbs)
7000-FV350	76 x 67 x 150 mm	140 mm (5-1/2")	350 mm (13-3/4")	7 Kgs (15.4 Lbs)
7000-FV45	100 x 90 x 200 mm	180 mm (7")	450 mm (17-3/4")	12.5 Kgs (27.6 Kgs)
7000-FV55	125 x 120 x 250 mm	250 mm (9-7/8")	550 mm (21-5/8")	22 Kgs (48.5 Lbs)



## LOCK-DOWN JAW MECHANICAL / HYDRAULIC MACHINE VISE



### ► 0780-0130~0780-0250

#### FEATURES:

- Mechanical/Hydraulic spindle without original clutch mechanism.
- Clamping system:mechanical/hydraulic.
- Large clamping & long guidance of movable jaw.
- Rapid clamping range adjustment.
- Rigid material - vise body of Ductile iron FCD60 JIS (equal to GGG 60) with 60 kgs/mm<sup>2</sup> or 80.000 psi tensile strength.
- Down trust "Semi - sphere segment "mechanism - eliminates jaw life and work tilt.
- Vise bed flame hardened to HRC 45° and up takes up wear and maintain accuracy for long.

#### Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs
- M6 x 10 L x 2 pcs

#### Optional Accessories

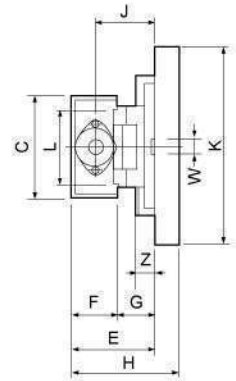
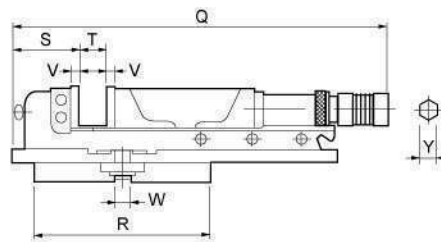
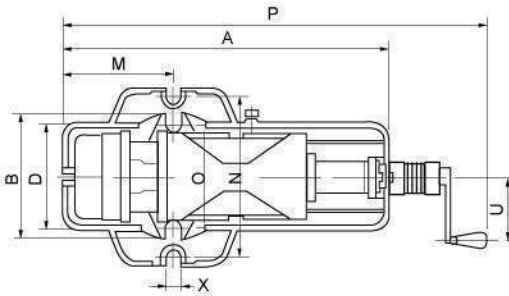
- Special application jaw plates
- Swivel base (SB-cast iron)



▲ 0780-0160



▲ 0780-0160 W/Swivel Base



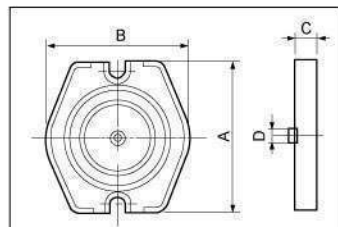
CODE No.	Mfge No.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
0780-0130	PHV-130	505	190	130	170	127	55	72	163	95	290	106	180	250	160	695 / 920
0780-0160	PHV-160	625	240	160	205	140	58	82	179	105	340	125	208	300	196	755 / 1055
0780-0200	PHV-200	700	280	200	240	163	63	100	205	125	400	165	265	360	240	830 / 1140
0780-0250	PHV-250	810	320	250	290	190	80	110	238	139	460	195	320	410	270	920 / 1260

CODE No.	Mfge No.	Q	R	S	T	U	V	W	X	Y	Z	Jaw Opening Position I II III
0780-0130	PHV-130	570/795	260	105	220	125	15	16	18	14	25	0-75 / 70-150 / 145-225
0780-0160	PHV-160	640/940	320	125	300	125	15	16	18	14	27	0-110 / 100-210 / 200-310
0780-0200	PHV-200	725/1035	365	150	300	125	18	18	22	14	36	0-110 / 100-210 / 200-310
0780-0250	PHV-250	815/1155	420	180	340	125	21	18	22	14	36	0-115 / 110-230 / 225-345

CODE No.	Mfge No.	Max. Pressure	Limit. Pressure	N.W./G.W.	Shipment Size	Weight Of Vise With Swivel Base	Vise With Swivel Base
0780-0130	PHV-130	36 KN (3528 kgf)	41 KN (4018 kgf)	36 / 38 kg	645 x 260 x 185	46 / 55 kg	690 x 360 x 270
0780-0160	PHV-160	41 KN (4018 kgf)	52 KN (5096 kgf)	56 / 58 kg	730 x 260 x 190	72 / 82 kg	750 x 430 x 290
0780-0200	PHV-200	62 KN (6076 kgf)	72 KN (7056 kgf)	90 / 102 kg	860 x 380 x 280	117 / 131 kg	860 x 520 x 310
0780-0250	PHV-250	72 KN (7056 kgf)	82 KN (8036 kgf)	140 / 160 kg	960 x 450 x 300	172 / 200 kg	900 x 560 x 350

### SWIVEL BASE (CAST IRON)

### ► 0780-4130~0780-4250



#### Standard Accessories

- T-Bolts x 2 pcs
- 5/8" nuts x 2 pcs

ORDER NO.	SB	A	B	C	D	N.W
0780-4130	130	290	260	34	16	9 kg
0780-4160	160	340	320	39	16	15 kg
0780-4200	200	400	360	46	18	23 kg
0780-4250	250	460	420	50	18	32 kg

## LOCK-DOWN JAW MECHANICAL / HYDRAULIC MACHINE VISE



► 0783-0160~0783-0250

### FEATURES:

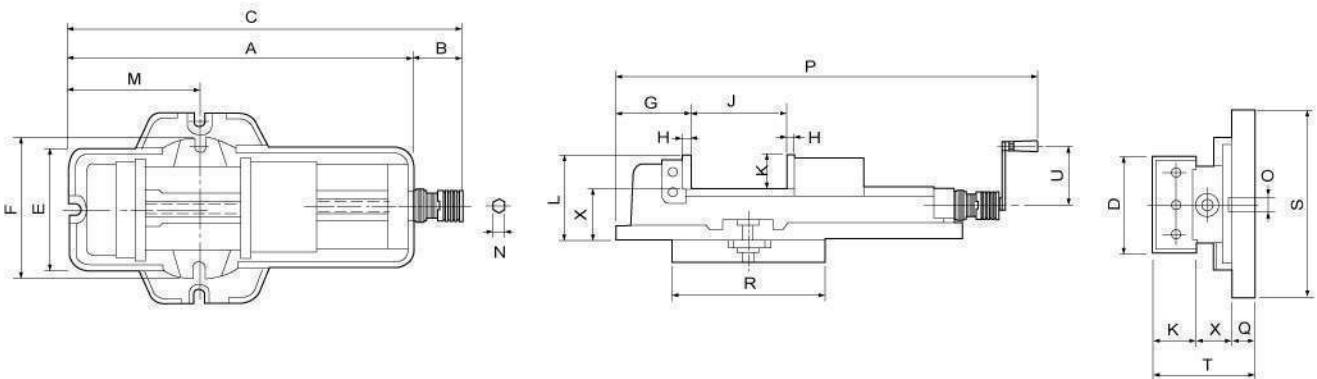
- Mechanical / hydraulic spindle without original clutch mechanism.
- Clamping system: mechanical/hydraulic.
- Rigid material- Ductile iron FCD60 JIS (equal to GGG 60) with 60 kgs/mm<sup>2</sup> or 80.000 psi tensile strength.
- Down thrust "semi-sphere segment" mechanism-eliminates jaw lift and work tilt.
- Vise bed flame hardened to HRC45° and up takes up wear and maintain accuracy for long.
- Max.opening capacity particularly suitable for large workpiece.

### Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs M6 x 10 L x 2 pcs

### Optional Accessories

- Special application jaw plates
- Swivel base (SB-cast iron)

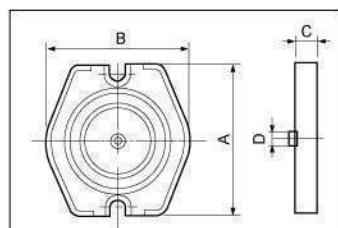


CODE No.	Mfge No.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R
0783-0160	PLV-160	625	150	775	160	205	240	125	15	0-335	58	140	208	14	16	845	39	320
0783-0200	PLV-200	700	150	850	200	240	280	150	18	0-360	63	163	265	14	18	915	46	365
0783-0250	PLV-250	810	150	960	250	290	320	180	21	0-380	80	190	320	14	18	1020	50	420

CODE No.	Mfge No.	S	T	U	Pressure	N.W./G.W.	Shipment Size	N.W./G.W.	Vise With Swivel Base
0783-0160	PLV-160	340	179	125	52 KN (5096 kgf)	54 / 57 kg	840 x 260 x 180	72 / 85 kg	900 x 430 x 290
0783-0200	PLV-200	400	205	125	62 KN (6076 kgf)	90 / 102 kg	1010 x 380 x 280	113 / 130 kg	1010 x 520 x 310
0783-0250	PLV-250	460	238	125	67 KN (6566 kgf)	140 / 160 kg	1110 x 450 x 300	172 / 200 kg	1110 x 560 x 350

## SWIVEL BASE (CAST IRON)

► 0780-4130~0780-4250



### Standard Accessories

- T-Bolts x 2 pcs
- 5/8" nuts x 2 pcs

ORDER NO.	SB	A	B	C	D	N.W
0780-4130	130	290	260	34	16	9 kg
0780-4160	160	340	320	39	16	15 kg
0780-4200	200	400	360	46	18	23 kg
0780-4250	250	460	420	50	18	32 kg



## FMS COMPACT HYDRAULIC VISE (LONG OPENING)

▶ 0710-0100~0710-5200

### FEATURES:

- Holding Work-piece firmly in single and multiple vises setup.
- Semi-spherical segment eliminates jaw lifting and work-piece tilting.
- One piece casting of vise bed and fixed jaw.
- Rigid material-Ductile iron FCD60JIS (Equal to GGG60) with 60 kgs/mm<sup>2</sup> or 80,000 psi tensile strength.
- Vise bed flame hardened to HRC 45° and up takes up wear and maintain accuracy for long.
- Chip covers adopt on each Vise for preventing chips falling into Lead-screw and inside of vise.



▲ 0710-0160



▲ 0710-5160

### SWIVEL BASE (STEEL)

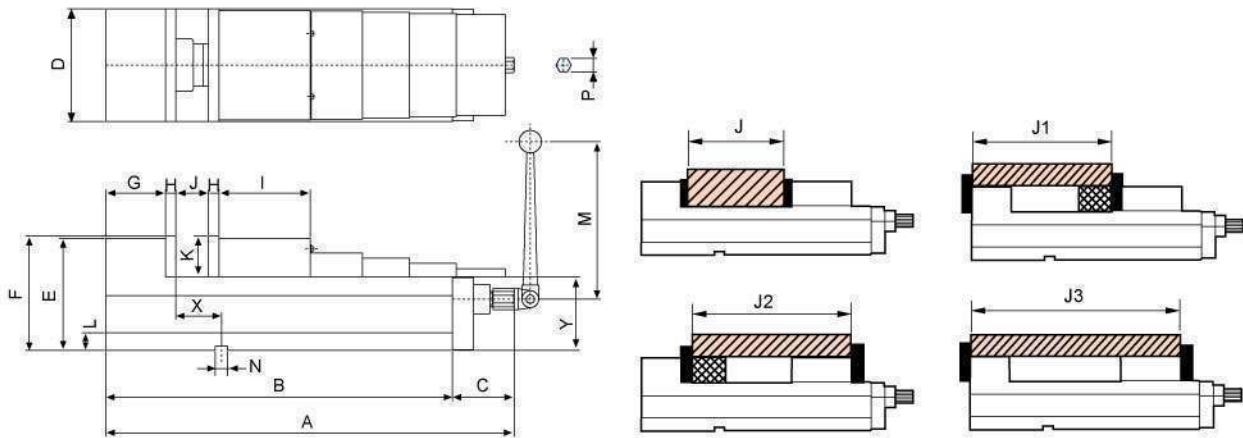


#### Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs
- M6 x 10 L x 2 pcs
- Vise locked block x 4 pcs

#### Optional Accessories

1. Special Application Jaw Plates
2. Swivel Base - SBD (Steel)



CODE No.	Mfge No.	A	B	C	D	E	F	G	H	I	J	J1	J2	J3
0710-0100	CV-100V	430	340	90	101	130	133	65	15	105	0-125	125-190	125-230	125-320
0710-5100	CV-100S	430	340	90	101	130	133	65	15	105	0-125	125-190	125-230	
0710-0130	CV-130V	495	405	90	131	147	150	70	15	115	0-180	180-240	180-290	180-380
0710-5130	CV-130S	495	405	90	131	147	150	70	15	115	0-180	180-240	180-290	
0710-0160	CV-160V	585	495	90	161	160	163	85	15	130	0-240	240-320	240-360	240-470
0710-5160	CV-160S	585	495	90	161	160	163	85	15	130	0-240	240-320	240-360	
0710-0200	CV-200V	666	570	96	201	170	173	90	18	150	0-280	280-360	280-420	280-540
0710-5200	CV-200S	666	570	96	201	170	173	90	18	150	0-280	280-360	280-420	

CODE No.	Mfge No.	K	L	M	N	P	X	X= $\frac{0}{-0.02}$	Y	Y= $\frac{0}{-0.02}$	N.W.	G.W.	Shipment Size
0710-0100	CV-100V	48	22	260	16	19	45	YES	85	YES	24 kg	26 kg	600 x 220 x 185
0710-5100	CV-100S	48	22	260	16	19	45	NO	85	NO	24 kg	26 kg	600 x 220 x 185
0710-0130	CV-130V	55	22	260	18	19	65	YES	95	YES	37 kg	39 kg	665 x 250 x 205
0710-5130	CV-130S	55	22	260	18	19	65	NO	95	NO	37 kg	39 kg	665 x 250 x 205
0710-0160	CV-160V	58	22	260	18	19	65	YES	105	YES	57 kg	59 kg	760 x 280 x 215
0710-5160	CV-160S	58	22	260	18	19	65	NO	105	NO	57 kg	59 kg	760 x 280 x 215
0710-0200	CV-200V	63	22	260	18	19	82	YES	110	YES	77 kg	80 kg	860 x 320 x 225
0710-5200	CV-200S	63	22	260	18	19	82	NO	110	NO	77 kg	80 kg	860 x 320 x 225

## FMS COMPACT HYDRAULIC VISE (LONG OPENING)



▶ 0712-0100~0712-5200

### FEATURES:

- Holding Work-piece firmly in single and multiple vises setup.
- Clamping system: mechanical / hydraulic.
- Semi-spherical segment eliminates jaw lifting and work-piece tilting.
- One piece casting of vise bed and fixed jaw.
- Rigid material-Ductile iron FCD60JIS (Equal to GGG60) with 60 kgs/mm<sup>2</sup> or 80,000 psi tensile strength.
- Vise bed flame hardened to HRC 45° and up takes up wear and maintain accuracy for long.
- Chip covers adopt on each Vise for preventing chips falling into Lead-screw and inside of vise.



▲ 0712-0160



▲ 0712-5160

### SWIVEL BASE (STEEL)

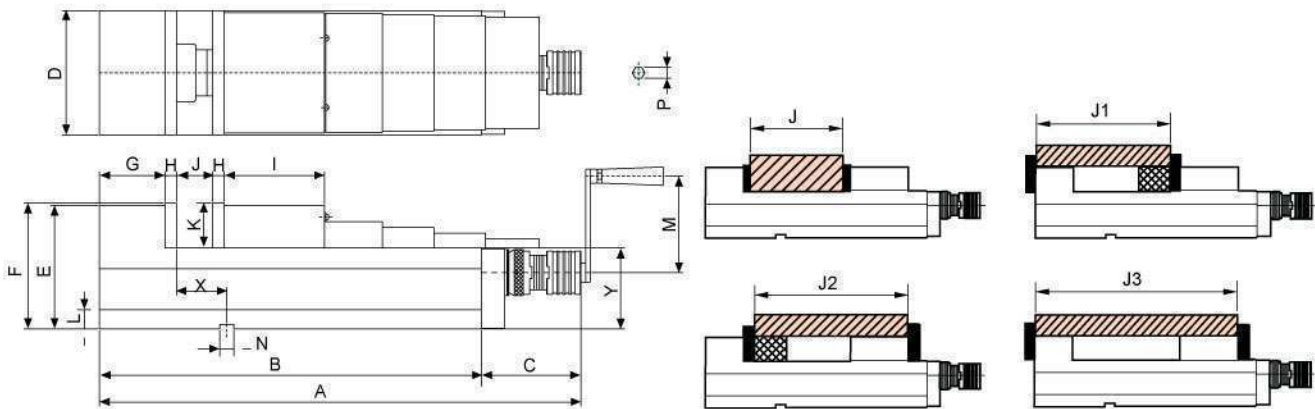


### Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs  
M6 x 10 L x 2 pcs
- Vise locked block x 4 pcs

### Optional Accessories

- Special Application Jaw Plates
- Swivel Base - SBD (Steel)



CODE No.	Mfge No.	A	B	C	D	E	F	G	H	I	J	J1	J2	J3	K	L	M	N
0712-0100	CHV-100V	475	340	135	101	130	133	65	15	105	0-125	125-190	125-230	125-320	48	22	125	16
0712-5100	CHV-100S	475	340	135	101	130	133	65	15	105	0-125	125-190	125-230		48	22	125	16
0712-0130	CHV-130V	540	405	135	131	147	150	70	15	115	0-180	180-240	180-290	180-380	55	22	125	18
0712-5130	CHV-130S	540	405	135	131	147	150	70	15	115	0-180	180-240	180-290		55	22	125	18
0712-0160	CHV-160V	630	495	135	161	160	163	85	15	130	0-240	240-320	240-360	240-470	58	22	125	18
0712-5160	CHV-160S	630	495	135	161	160	163	85	15	130	0-240	240-320	240-360		58	22	125	18
0712-0200	CHV-200V	705	570	135	201	170	173	90	18	150	0-280	280-360	280-420	280-540	63	22	125	18
0712-5200	CHV-200S	705	570	135	201	170	173	90	18	150	0-280	280-360	280-420		63	22	125	18

CODE No.	Mfge No.	P	X	X= <sup>0</sup> / <sub>-0.02</sub>	Y	Y= <sup>0</sup> / <sub>-0.02</sub>	Max. Pressure	Limit. Pressure	N.W.	G.W.	Shipment Size
0712-0100	CHV-100V	14	45	YES	85	YES	36 KN (3528 kgf)	41 KN (4018 kgf)	25 kg	27 kg	600 x 220 x 185
0712-5100	CHV-100S	14	45	NO	85	NO	36 KN (3528 kgf)	41 KN (4018 kgf)	25 kg	27 kg	600 x 220 x 185
0712-0130	CHV-130V	14	65	YES	95	YES	46 KN (4508 kgf)	52 KN (5096 kgf)	38 kg	40 kg	665 x 250 x 205
0712-5130	CHV-130S	14	65	NO	95	NO	46 KN (4508 kgf)	52 KN (5096 kgf)	38 kg	40 kg	665 x 250 x 205
0712-0160	CHV-160V	14	65	YES	105	YES	56 KN (5488 kgf)	61 KN (5978 kgf)	57 kg	60 kg	760 x 280 x 215
0712-5160	CHV-160S	14	65	NO	105	NO	56 KN (5488 kgf)	61 KN (5978 kgf)	57 kg	60 kg	760 x 280 x 215
0712-0200	CHV-200V	14	82	YES	110	YES	71 KN (6958 kgf)	82 KN (8036 kgf)	78 kg	81 kg	860 x 320 x 225
0712-5200	CHV-200S	14	82	NO	110	NO	71 KN (6958 kgf)	82 KN (8036 kgf)	78 kg	81 kg	860 x 320 x 225

## MC COMPACT MECHANICAL POWER VISE



▶ 0716-0100~0716-5200

### FEATURES:

- Clamping power indicating graduations are engraved on the vice handle to show instantly the figure of clamping force in tons.
- Drive spindle with clamping force presetting and stopper mechanism device.
- Holding work-piece firmly in single and multiple vises setup.
- Semi-spherical segment eliminates jaw lifting and work-piece tilting.
- One piece casting of vise bed and fixed jaw.
- Rigid material-Ductile iron FCD60JIS (Equal to GGG60) with 60 kgs/mm<sup>2</sup> or 80,000 psi tensile strength.
- Vise bed flame hardened to HRC45° and up takes up wear and maintain accuracy for long.
- Chip covers adopt on each vise for preventing chips falling into leadscrew and inside of vise.



▲ 0716-0160



▲ 0716-5160

### SWIVEL BASE (STEEL)

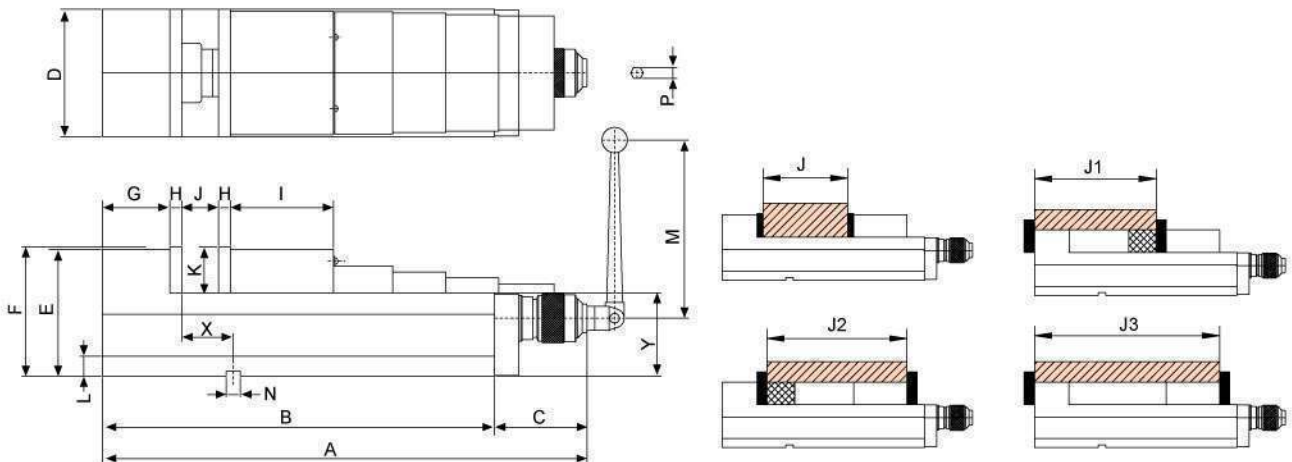


### Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs
- M6 x 10 L x 2 pcs
- Vise locked block x 4 pcs

### Optional Accessories

- Special Application Jaw Plates
- Swivel Base - SBD (Steel)



CODE No.	Mfge No.	A	B	C	D	E	F	G	H	I	J	J1	J2	J3	K	L
0716-0100	CMV-100V	475	340	135	101	130	133	65	15	105	0-125	125-190	125-230	125-320	48	22
0716-5100	CMV-100S	475	340	135	101	130	133	65	15	105	0-125	125-190	125-230		48	22
0716-0130	CMV-130V	540	405	135	131	147	150	70	15	115	0-180	180-240	180-290	180-380	55	22
0716-5130	CMV-130S	540	405	135	131	147	150	70	15	115	0-180	180-240	180-290		55	22
0716-0160	CMV-160V	630	495	135	161	160	163	85	15	130	0-240	240-320	240-360	240-470	58	22
0716-5160	CMV-160S	630	495	135	161	160	163	85	15	130	0-240	240-320	240-360		58	22
0716-0200	CMV-200V	705	570	135	201	170	173	90	18	150	0-280	280-360	280-420	280-540	63	22
0716-5200	CMV-200S	705	570	135	201	170	173	90	18	150	0-280	280-360	280-420		63	22

CODE No.	Mfge No.	M	N	P	X	X= <sup>0</sup> / <sub>-0.02</sub>	Y	Y= <sup>0</sup> / <sub>-0.02</sub>	Max.Pressure	N.W.	G.W.	Shipment Size
0716-0100	CMV-100V	125	16	14	45	YES	85	YES	46 KN (4508 kgf)	25 kg	27 kg	600 x 220 x 185
0716-5100	CMV-100S	125	16	14	45	NO	85	NO	46 KN (4508 kgf)	25 kg	27 kg	600 x 220 x 185
0716-0130	CMV-130V	125	18	14	65	YES	95	YES	52 KN (5096 kgf)	38 kg	40 kg	665 x 250 x 205
0716-5130	CMV-130S	125	18	14	65	NO	95	NO	52 KN (5096 kgf)	38 kg	40 kg	665 x 250 x 205
0716-0160	CMV-160V	125	18	14	65	YES	105	YES	57 KN (5586 kgf)	58 kg	60 kg	760 x 280 x 215
0716-5160	CMV-160S	125	18	14	65	NO	105	NO	57 KN (5586 kgf)	58 kg	60 kg	760 x 280 x 215
0716-0200	CMV-200V	125	18	14	82	YES	110	YES	65 KN (6370 kgf)	78 kg	81 kg	860 x 320 x 225
0716-5200	CMV-200S	125	18	14	82	NO	110	NO	65 KN (6370 kgf)	78 kg	81 kg	860 x 320 x 225

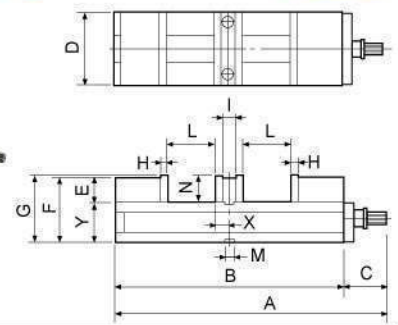
## MC 2 IN 1 DOUBLE LOCK & ANGLOCK MACHINE VISE

TAIWAN

▶ 0719-0100~0719-2200

### Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs
- M6 x 10 L x 2 pcs
- Chip cover x 1 set
- Vise locked block x 4 pcs



▲ 0719-0160

▲ 0719-2160

CODE No.	Mfge No.	A	B	C	D	E	F	G	H	I	L(Each Opening)	
0719-0100	DAV-100V	495	410	85	101	45	125	128	15	30	0-75	0-75
0719-2100	DAV-100S	495	410	85	101	45	125	128	15	30	0-75	0-75
0719-0130	DAV-130V	535	450	85	131	52	137	140	15	30	0-85	0-85
0719-2130	DAV-130S	535	450	85	131	52	137	140	15	30	0-85	0-85
0719-0160	DAV-160V	585	500	85	161	55	145	148	15	30	0-100	0-100
0719-2160	DAV-160S	585	500	85	161	55	145	148	15	30	0-100	0-100
0719-0200	DAV-200V	727	642	85	201	60	155	158	18	40	0-150	0-150
0719-2200	DAV-200S	727	642	85	201	60	155	158	18	40	0-150	0-150

CODE No.	Mfge No.	M	N	X	X= $\begin{smallmatrix} 0 \\ -0.02 \end{smallmatrix}$	Y	Y= $\begin{smallmatrix} 0 \\ -0.02 \end{smallmatrix}$	F	G.W.	Shipment Size	
0719-0100	DAV-100V	16	48	30	YES	80	YES	27 kg	29 kg	600 x 220 x 185	
0719-2100	DAV-100S	16	48	30	NO	80	NO	27 kg	29 kg	600 x 220 x 185	
0719-0130	DAV-130V	18	55	30	YES	85	YES	39 kg	41 kg	665 x 250 x 205	
0719-2130	DAV-130S	18	55	30	NO	85	NO	39 kg	41 kg	665 x 250 x 205	
0719-0160	DAV-160V	18	58	30	YES	90	YES	56 kg	59 kg	760 x 280 x 215	
0719-2160	DAV-160S	18	58	30	NO	90	NO	56 kg	59 kg	760 x 280 x 215	
0719-0200	DAV-200V	18	63	38	YES	95	YES	89 kg	92 kg	860 x 320 x 225	
0719-2200	DAV-200S	18	63	38	NO	95	NO	89 kg	92 kg	860 x 320 x 225	

## MC 2 IN 1 DOUBLE SELF-CENTERING VISE

TAIWAN

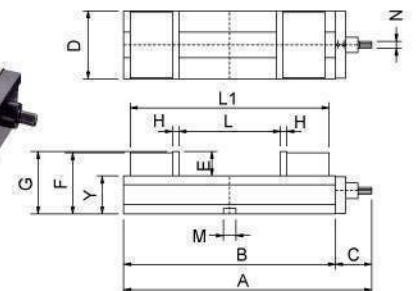
▶ 0719-6100~0719-8200

### Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs
- M6 x 10 L x 2 pcs
- Chip cover x 1 set
- Vise locked block x 4 pcs

### Optional Accessories

- Special application jaw plates



▲ 0719-6160

▲ 0719-8160

CODE No.	Mfge No.	A	B	C	D	E	F	G	H	L1
0719-6100	DBV-100V	488	410	78	101	48	125	128	15	270~400
0719-8100	DBV-100S	488	410	78	101	48	125	128	15	270~400
0719-6130	DBV-130V	528	450	78	131	55	137	140	15	270~440
0719-8130	DBV-130S	528	450	78	131	55	137	140	15	270~440
0719-6160	DBV-160V	578	500	78	161	58	145	148	15	270~490
0719-8160	DBV-160S	578	500	78	161	58	145	148	15	270~490
0719-6200	DBV-200V	720	642	78	201	63	155	158	18	350~630
0719-8200	DBV-200S	720	642	78	201	63	155	158	18	350~630

CODE No.	Mfge No.	M	N	Y	Y= $\begin{smallmatrix} 0 \\ -0.02 \end{smallmatrix}$	N.W.	G.W.	Shipment Size	
0719-6100	DBV-100V	16	19	80	YES	25 kg	27 kg	600 x 220 x 185	
0719-8100	DBV-100S	16	19	80	NO	25 kg	27 kg	600 x 220 x 185	
0719-6130	DBV-130V	18	19	85	YES	38 kg	41 kg	665 x 250 x 205	
0719-8130	DBV-130S	18	19	85	NO	38 kg	41 kg	665 x 250 x 205	
0719-6160	DBV-160V	18	19	90	YES	53 kg	55 kg	760 x 280 x 215	
0719-8160	DBV-160S	18	19	90	NO	53 kg	55 kg	760 x 280 x 215	
0719-6200	DBV-200V	18	19	95	YES	87 kg	90 kg	860 x 320 x 225	
0719-8200	DBV-200S	18	19	95	NO	87 kg	90 kg	860 x 320 x 225	

## MC COMPACT HYDRAULIC VISE WITH 90° DRIVING MECHANISM UNIT

▶ 0714-0100~0714-5200

TAIWAN

### FEATURES:

- Holding Work-piece firmly in single and multiple vises setup.
- Clamping system: Hydraulic.
- Semi-spherical segment eliminates jaw lifting and work-piece tilting.
- One piece casting of vise bed and fixed jaw.
- Rigid material-Ductile iron FCD60 JIS (Equal to GGG60 ) with 60 kgs/mm<sup>2</sup> or 80,000 psi tensile strength.
- Vise bed flame hardened to HRC 45° and up takes up wear and maintain accuracy for long.
- Chip covers adopt on each Vise for preventing chips falling into Leadscrew and inside of vise.
- With 90° driving mechanism unit, Avoid handle interrupted of table.



▲ 0714-5160



▲ 0714-0160

### SWIVEL BASE (STEEL)

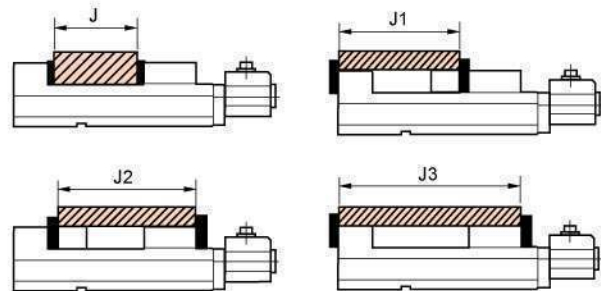
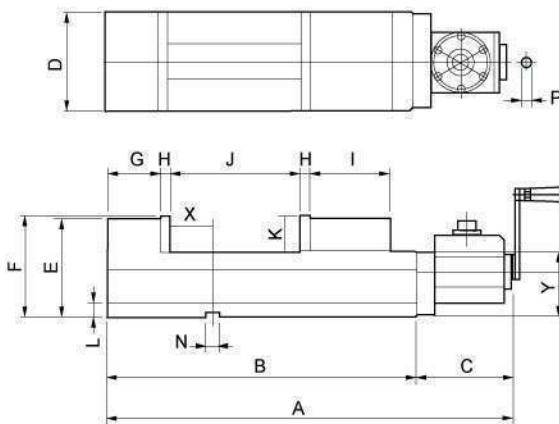


#### Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs  
M6 x 10 L x 2 pcs
- Chip cover x 1 set
- Vise locked block x 4 pcs

#### Optional Accessories

- Special Application Jaw Plates
- Swivel Base - SBD (Steel)



CODE No.	Mfge No.	A	B	C	D	E	F	G	H	I	J	J1	J2	J3	K	L	M	N
0714-0100	CHV-100V-D	512	340	172	101	130	133	65	15	105	0-125	125-190	125-230	125-320	48	22	125	16
0714-5100	CHV-100S-D	512	340	172	101	130	133	65	15	105	0-125	125-190	125-230		48	22	125	16
0714-0130	CHV-130V-D	577	405	172	131	147	150	70	15	115	0-180	180-240	180-290	180-380	55	22	125	18
0714-5130	CHV-130S-D	577	405	172	131	147	150	70	15	115	0-180	180-240	180-290		55	22	125	18
0714-0160	CHV-160V-D	667	495	172	161	160	163	85	15	130	0-240	240-320	240-360	240-470	58	22	125	18
0714-5160	CHV-160S-D	667	495	172	161	160	163	85	15	130	0-240	240-320	240-360		58	22	125	18
0714-0200	CHV-200V-D	742	570	172	201	170	173	90	18	150	0-280	280-360	280-420	280-540	63	22	125	18
0714-5200	CHV-200S-D	742	570	172	201	170	173	90	18	150	0-280	280-360	280-420		63	22	125	18

CODE No.	Mfge No.	P	X	X= <sup>0</sup> / <sub>-0.02</sub>	Y	Y= <sup>0</sup> / <sub>-0.02</sub>	Max. Pressure	Limit. Pressure	N.W.	G.W.	Shipment Size
0714-0100	CHV-100V-D	14	45	YES	85	YES	36 KN (3528 kgf)	41 KN (4018 kgf)	29 kg	31 kg	600 x 220 x 185
0714-5100	CHV-100S-D	14	45	NO	85	NO	36 KN (3528 kgf)	41 KN (4018 kgf)	29 kg	31 kg	600 x 220 x 185
0714-0130	CHV-130V-D	14	65	YES	95	YES	46 KN (4508 kgf)	52 KN (5096 kgf)	42 kg	44 kg	665 x 250 x 205
0714-5130	CHV-130S-D	14	65	NO	95	NO	46 KN (4508 kgf)	52 KN (5096 kgf)	42 kg	44 kg	665 x 250 x 205
0714-0160	CHV-160V-D	14	65	YES	105	YES	56 KN (5488 kgf)	61 KN (5978 kgf)	63 kg	65 kg	760 x 280 x 215
0714-5160	CHV-160S-D	14	65	NO	105	NO	56 KN (5488 kgf)	61 KN (5978 kgf)	63 kg	65 kg	760 x 280 x 215
0714-0200	CHV-200V-D	14	82	YES	110	YES	71 KN (6958 kgf)	82 KN (8036 kgf)	83 kg	86 kg	860 x 320 x 225
0714-5200	CHV-200S-D	14	82	NO	110	NO	71 KN (6958 kgf)	82 KN (8036 kgf)	83 kg	86 kg	860 x 320 x 225

## FMS COMPACT MACHINE VISE

TAIWAN

▶ 1000-0100~1000-4250

### FEATURES:

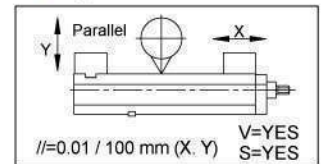
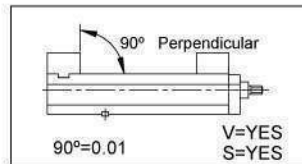
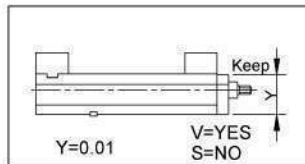
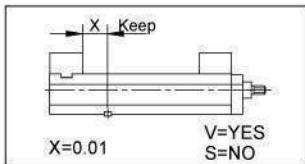
- Max. opening capacity and compact in total length. particularly suitable for machining centers.
- Rigid material- Ductile iron FCD60 JIS (equal to GGG 60) with 60 kg/mm<sup>2</sup> or 80.000 psi tensile strength.
- Vise bed flame hardened to  $\leq$  HRC 45°.
- Stationary jaw and Movable jaw are hardened HRC 52°~55° with grinding.
- Stationary jaw and Movable jaw are easy to shift on the clamping slide.
- Chip cover adopted on each Vise to prevent chips falling into Lead- screw and inside of vise.



▲ 1000-0160

### Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs  
M6 x 10 L x 2 pcs
- Vise locked block x 4 pcs
- Chip cover x 1 set



CODE No.	Mfge No.	Jaw Width	Jaw Height	Jaw Opening J(J1)	Vise Height	Total Height	Total Length	N.W.	Shipment Size
1000-0100	VCV-100V	100	45	155	85	130	398	21 kg	590 x 175 x 185
1000-0130	VCV-130V	130	52	250	95	147	508	21 kg	590 x 175 x 185
1000-0160	VCV-160V	160	55	300	105	160	573	38 kg	655 x 190 x 225
1000-0200	VCV-200V	200	60	350	110	170	653	38 kg	655 x 190 x 225
1000-0250	VCV-250V	250	78	550	115	193	903	57 kg	760 x 190 x 215
1000-4100	VCV-100V-SJ	100	45	213	85	130	398	57 kg	760 x 190 x 215
1000-4130	VCV-130V-SJ	130	52	315	95	147	508	87 kg	820 x 230 x 220
1000-4160	VCV-160V-SJ	160	55	370	105	160	573	87 kg	820 x 230 x 220
1000-4200	VCV-200V-SJ	200	60	426	110	170	653	150 kg	1045 x 410 x 330
1000-4250	VCV-250V-SJ	250	78	650	115	193	903	150 kg	1045 x 410 x 330

## FMS COMPACT HYDRAULIC VISE

TAIWAN

▶ 1001-0130~1001-4250

### FEATURES:

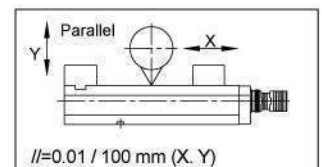
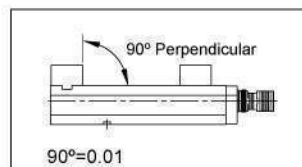
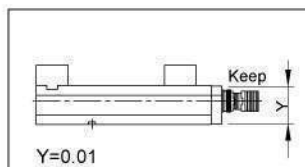
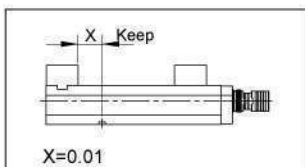
- Max. opening capacity and compact in total length. particularly suitable for machining centers.
- Clamping system: mechanical/hydraulic.
- Vise bed flame hardened to  $\leq$  HRC 45°.
- Rigid material- Ductile iron FCD60 JIS (equal to GGG 60) with 60 kg/mm<sup>2</sup> or 80.000 psi tensile strength.
- Stationary jaw and Movable jaw are hardened HRC 52°~55° with grinding.
- Stationary jaw and Movable jaw are easy to shift on the clamping slide.
- Chip cover adopted on each Vise to prevent chips falling into Lead- screw and inside of vise.



▲ 1001-0160

### Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs  
M6 x 10 L x 2 pcs
- Vise locked block x 4 pcs
- Chip cover x 1 set



CODE No.	Mfge No.	Jaw Width	Jaw Height	Jaw Opening J(J1)	Vise Height	Total Height	Total Length	Limit. Pressure	N.W.	Shipment Size
1001-0130	VHV-130V	130	52	210	95	147	545	72 KN (7056 kgf)	42 kg	655 x 190 x 225
1001-0160	VHV-160V	160	55	300	105	160	610	77 KN (7546 kgf)	62 kg	760 x 190 x 215
1001-0200	VHV-200V	200	60	350	110	170	690	82 KN (8036 kgf)	93 kg	820 x 230 x 220
1001-0250	VHV-250V	250	78	550	115	193	940	90 KN (8820 kgf)	170 kg	1045 x 410 x 330
1001-4130	VHV-130V-SJ	130	52	275	95	147	545	72 KN (7056 kgf)	42 kg	655 x 190 x 225
1001-4160	VHV-160V-SJ	160	55	370	105	160	610	77 KN (7546 kgf)	62 kg	760 x 190 x 215
1001-4200	VHV-200V-SJ	200	60	426	110	170	690	82 KN (8036 kgf)	93 kg	820 x 230 x 220
1001-4250	VHV-250V-SJ	250	78	650	115	193	940	90 KN (8820 kgf)	170 kg	1045 x 410 x 330





## MULTIPLE MC COMPACT VISE (2, 3, 4, IN ONE SET UP)

► 0723-0102~0726-0164

### FEATURES:

- Multiple MC compact vise for mounting on a vertical machining center to achieve highest productivity.
- Incorporates lock down jaw principle assures zero part lift and near zero deflection when clamping.
- Parts can be clamped in a consecutive pattern for progressive "all sides" machining.
- Chip covers adopt on each Vise to prevent chips falling into Leadscrew and inside of vise.

### Standard Accessories

- Handle x 2,3,4 pc
- Guide key x 2 pcs
- M6 x 10 L x 2 pcs

### Optional Accessories

- Special application jaw plates



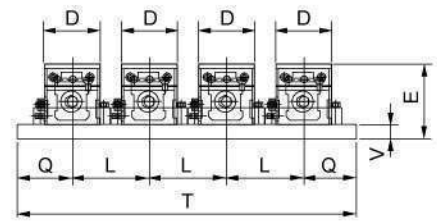
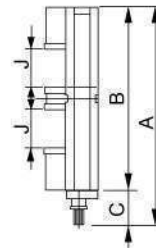
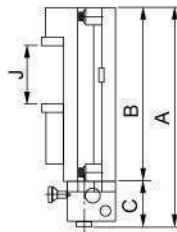
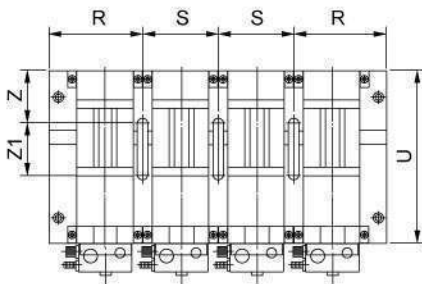
▲ 0723-0164



▲ 0725-0164



▲ 0726-0164



CODE No.	Mfge No.	A	B	C	D	E	J	L	Q	R	S	T	U	V	Z	Z1
0723-0102	CMV-100-2S	475	340	135	101	163	0-125	300	105	180	150	510	340	30	100	100
0723-0103	CMV-100-3S	475	340	135	101	163	0-125	150	105	180	150	510	340	30	100	100
0723-0104	CMV-100-4S	475	340	135	101	163	0-125	150	105	180	150	660	340	30	100	100
0723-0132	CMV-130-2S	540	405	135	131	185	0-180	360	120	210	180	600	405	35	120	120
0723-0133	CMV-130-3S	540	405	135	131	185	0-180	180	120	210	180	600	405	35	120	120
0723-0134	CMV-130-4S	540	405	135	131	185	0-180	180	120	210	180	780	405	35	120	120
0723-0162	CMV-160-2S	630	495	135	161	203	0-240	440	140	250	220	720	495	40	150	150
0723-0163	CMV-160-3S	630	495	135	161	203	0-240	220	140	250	220	720	495	40	150	150
0723-0164	CMV-160-4S	630	495	135	161	203	0-240	220	140	250	220	940	495	40	150	150
0725-0102	DAV-100-2S	495	410	85	101	158	0-75	300	105	180	150	510	340	30	100	100
0725-0103	DAV-100-3S	495	410	85	101	158	0-75	150	105	180	150	510	340	30	100	100
0725-0104	DAV-100-4S	495	410	85	101	158	0-75	150	105	180	150	660	340	30	100	100
0725-0132	DAV-130-2S	535	450	85	131	175	0-85	360	120	210	180	600	405	35	120	120
0725-0133	DAV-130-3S	535	450	85	131	175	0-85	180	120	210	180	600	405	35	120	120
0725-0134	DAV-130-4S	535	450	85	131	175	0-85	180	120	210	180	780	405	35	120	120
0725-0162	DAV-160-2S	585	500	85	161	188	0-100	440	140	250	220	720	495	40	150	150
0725-0163	DAV-160-3S	585	500	85	161	188	0-100	220	140	250	220	720	495	40	150	150
0725-0164	DAV-160-4S	585	500	85	161	188	0-100	220	140	250	220	940	495	40	150	150
0726-0102	PQV-100-2S	442	340	102	101	163	0-105	300	105	180	150	510	340	30	100	100
0726-0103	PQV-100-3S	442	340	102	101	163	0-105	150	105	180	150	510	340	30	100	100
0726-0104	PQV-100-4S	442	340	102	101	163	0-105	150	105	180	150	660	340	30	100	100
0726-0132	PQV-130-2S	507	405	102	131	185	0-140	360	120	210	180	600	405	35	120	120
0726-0133	PQV-130-3S	507	405	102	131	185	0-140	180	120	210	180	600	405	35	120	120
0726-0134	PQV-130-4S	507	405	102	131	185	0-140	180	120	210	180	780	405	35	120	120
0726-0162	PQV-160-2S	534	432	102	161	203	0-150	440	140	250	220	720	495	40	150	150
0726-0163	PQV-160-3S	534	432	102	161	203	0-150	220	140	250	220	720	495	40	150	150
0726-0164	PQV-160-4S	534	432	102	161	203	0-150	220	140	250	220	940	495	40	150	150

## MC PNEUMATIC QUICK VISE

TAIWAN

▶ 0770-0100~0770-5200

### FEATURES:

- Robust construction of one piece casting of fixed jaw and vise bed.
- Rigid and high tensile casting of ductile iron FCD60JIS (Equal to GGG 60) with 60 kgs/mm<sup>2</sup> or 80,000 psi tensile strength.
- Most suitable for mass production and to be used on machine centers, milling machines, drilling machines and special purpose machines.
- Most compact pneumatic mechanism design. No oil, just joint with the air supply will do.
- Most compact in total length of vise with Max. clamping capacity.
- Safety locking mechanism for unexpected termination of air supply. After pneumatic clamping, the work piece will be clamped firmly even without the air supply.
- Easy and simple ON-OFF switch control for pneumatic operation. The optional electric control for automatic and FMS system is available.
- Safety protection Max. pneumatic clamping stroke is 4 mm to prevent inserting operator's finger during clamping operation. (Stroke is 2 mm best power capacity)
- Rapid ON-OFF only 1.5 sec.
- Multiple pneumatic Quick Vise set up available with only one source of air supply. (Optional)
- Free adjusting of Max. pneumatic clamping pressure from 0-1,000 kgf (4000) by air regulator, jaw opening 2 mm is best clamping power capacity of workpiece.
- Vise bed flame hardened to HRC45° and up takes up wear and maintains accuracy for long.
- Down trust "semi-spherical segment" mechanism eliminates jaw lifting and work-piece.

### Standard Accessories

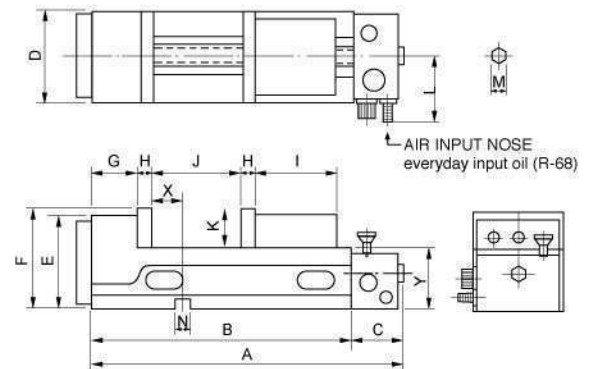
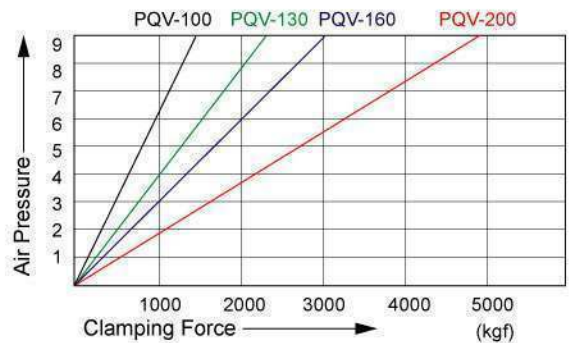
- Handle x 1 pc
- Guide key x 2 pcs
- M6 x 10 L x 2 pcs
- Vise locked block x 4 pcs

### Optional Accessories

- Special application jaw plates



▲ 0770-0160



CODE No.	Mfge No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	X
0770-0100	PQV-100V	442	340	102	101	130	133	96	15	105	0-105	48	95	14	16	45
0770-5100	PQV-100S	442	340	102	101	130	133	96	15	105	0-105	48	95	14	16	45
0770-0130	PQV-130V	507	405	102	131	152	155	100	15	115	0-140	55	95	14	18	65
0770-5130	PQV-130S	507	405	102	131	152	155	100	15	115	0-140	55	95	14	18	65
0770-0160	PQV-160V	534	432	102	161	160	163	115	15	130	0-150	58	105	14	18	65
0770-5160	PQV-160S	534	432	102	161	160	163	115	15	130	0-150	58	105	14	18	65
0770-0200	PQV-200V	627	525	102	201	185	188	125	18	150	0-200	63	105	14	18	82
0770-5200	PQV-200S	627	525	102	201	185	188	125	18	150	0-200	63	105	14	18	82

CODE No.	Mfge No.	X= <sup>0</sup> / <sub>-0.02</sub>	Y	Y= <sup>0</sup> / <sub>-0.02</sub>	Power	Air Pressure	Stroke	N.W.	G.W.	Shipment Size
0770-0100	PQV-100V	YES	85	YES	11 KN (1078 kgf)	1.5-7.0 kg/cm <sup>2</sup>	0-3 m/m	27 kg	29 kg	600 x 220 x 185
0770-5100	PQV-100S	NO	85	NO	11 KN (1078 kgf)	1.5-7.0 kg/cm <sup>2</sup>	0-3 m/m	27 kg	29 kg	600 x 220 x 185
0770-0130	PQV-130V	YES	100	YES	16 KN (1568 kgf)	1.5-7.0 kg/cm <sup>2</sup>	0-3 m/m	40 kg	42 kg	665 x 250 x 205
0770-5130	PQV-130S	NO	100	NO	16 KN (1568 kgf)	1.5-7.0 kg/cm <sup>2</sup>	0-3 m/m	40 kg	42 kg	665 x 250 x 205
0770-0160	PQV-160V	YES	105	YES	21 KN (2058 kgf)	1.5-7.0 kg/cm <sup>2</sup>	0-4 m/m	52 kg	55 kg	760 x 280 x 215
0770-5160	PQV-160S	NO	105	NO	21 KN (2058 kgf)	1.5-7.0 kg/cm <sup>2</sup>	0-4 m/m	52 kg	55 kg	760 x 280 x 215
0770-0200	PQV-200V	YES	125	YES	41 KN (4018 kgf)	1.5-7.0 kg/cm <sup>2</sup>	0-4 m/m	83 kg	86 kg	860 x 320 x 225
0770-5200	PQV-200S	NO	125	NO	41 KN (4018 kgf)	1.5-7.0 kg/cm <sup>2</sup>	0-4 m/m	83 kg	86 kg	860 x 320 x 225



## MULTIPLE MC COMPACT VISE (2,3,4, IN ONE SET UP)

▶ 0720-0102~0722-0164

### FEATURES:

- Multiple MC compact vise for mounting on a vertical machining center to achieve highest productivity.
- Incorporates lock down jaw principle assures zero part lift and near zero deflection when clamping.
- Parts can be clamped in a consecutive pattern for progressive "all sides" machining.
- Chip covers adopt on each Vise to prevent chips falling into Leadscrew and inside of vise.
- With 90° driving mechanism unit, avoid handle interrupted of table. (CHV-D)

### Standard Accessories

- Handle x 2.3.4 pcs
- Guide key x 2pcs  
M6 x 10L x 2pcs

### Optional Accessories

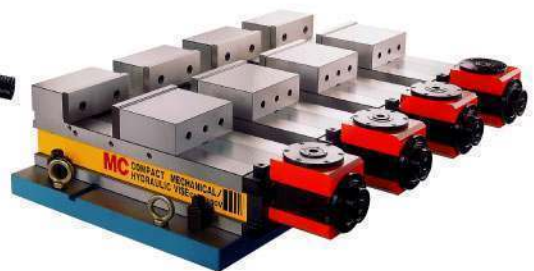
- Special application jaw plates



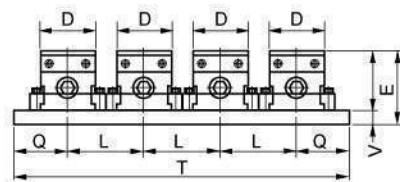
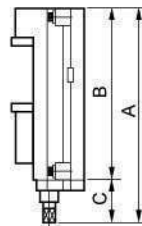
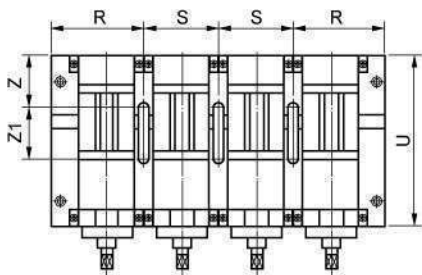
▲ 0720-0162



▲ 0721-0162



▲ 0722-0162



CODE No.	Mfge No.	A	B	C	D	E	J	L	Q	R	S	T	U	V	Z	Z1
0720-0102	CV-100-2S	430	340	90	101	163	0-125	300	105	180	150	510	340	30	100	100
0720-0103	CV-100-3S	430	340	90	101	163	0-125	150	105	180	150	510	340	30	100	100
0720-0104	CV-100-4S	430	340	90	101	163	0-125	150	105	180	150	660	340	30	100	100
0720-0132	CV-130-2S	495	405	90	131	185	0-180	360	120	210	180	600	405	35	120	120
0720-0133	CV-130-3S	495	405	90	131	185	0-180	180	120	210	180	600	405	35	120	120
0720-0134	CV-130-4S	495	405	90	131	185	0-180	180	120	210	180	780	405	35	120	120
0720-0162	CV-160-2S	585	495	90	161	203	0-240	440	140	250	220	720	495	40	150	150
0720-0163	CV-160-3S	585	495	90	161	203	0-240	220	140	250	220	720	495	40	150	150
0720-0164	CV-160-4S	585	495	90	161	203	0-240	220	140	250	220	940	495	40	150	150
0721-0102	CHV-100-2S	475	340	135	101	163	0-125	300	105	180	150	510	340	30	100	100
0721-0103	CHV-100-3S	475	340	135	101	163	0-125	150	105	180	150	510	340	30	100	100
0721-0104	CHV-100-4S	475	340	135	101	163	0-125	150	105	180	150	660	340	30	100	100
0721-0132	CHV-130-2S	540	405	135	131	185	0-180	360	120	210	180	600	405	35	120	120
0721-0133	CHV-130-3S	540	405	135	131	185	0-180	180	120	210	180	600	405	35	120	120
0721-0134	CHV-130-4S	540	405	135	131	185	0-180	180	120	210	180	780	405	35	120	120
0721-0162	CHV-160-2S	630	495	135	161	203	0-240	440	140	250	220	720	495	40	150	150
0721-0163	CHV-160-3S	630	495	135	161	203	0-240	220	140	250	220	720	495	40	150	150
0721-0164	CHV-160-4S	630	495	135	161	203	0-240	220	140	250	220	940	495	40	150	150
0722-0102	CHV-100-2S-D	512	340	172	101	163	0-125	300	105	180	150	510	340	30	100	100
0722-0103	CHV-100-3S-D	512	340	172	101	163	0-125	150	105	180	150	510	340	30	100	100
0722-0104	CHV-100-4S-D	512	340	172	101	163	0-125	150	105	180	150	660	340	30	100	100
0722-0132	CHV-130-2S-D	577	405	172	131	185	0-180	360	120	210	180	600	405	35	120	120
0722-0133	CHV-130-3S-D	577	405	172	131	185	0-180	180	120	210	180	600	405	35	120	120
0722-0134	CHV-130-4S-D	577	405	172	131	185	0-180	180	120	210	180	780	405	35	120	120
0722-0162	CHV-160-2S-D	667	495	172	161	203	0-240	440	140	250	220	720	495	40	150	150
0722-0163	CHV-160-3S-D	667	495	172	161	203	0-240	220	140	250	220	720	495	40	150	150
0722-0164	CHV-160-4S-D	667	495	172	161	203	0-240	220	140	250	220	940	495	40	150	150

## FMS COMPACT HYDRAULIC VISE (LONG OPENING)

TAIWAN

### ▶ 1012-0160~1013-6200

#### Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs  
M6 x 10 L x 2 pcs
- Chip cover x 1 set
- Vise locked block x 6 pcs



▲ 1012-0160



▲ 1013-0160



▲ 1012-2200



▲ 1013-2200

CODE No.	Mfge No.	Jaw Width	Jaw Height	Jaw Opening J(J1)	Vise Height	Total Height	Total Length	Limit. Pressure	N.W.	Shipment Size
1012-0160	VHV-160V-L	160	55	400	105	160	725	77 KN (7546 kgf)	68 kg	940 x 280 x 220
1012-2160	VHV-160V-XL	160	55	500	105	160	825	77 KN (7546 kgf)	75 kg	940 x 280 x 220
1012-2200	VHV-200V-BL	200	60	450	110	170	790	82 KN (8036 kgf)	100 kg	809 x 370 x 290
1012-4200	VHV-200V-L	200	60	630	110	170	970	82 KN (8036 kgf)	118 kg	1205 x 410 x 280
1012-6200	VHV-200V-XL	200	60	780	110	170	1115	82 KN (8036 kgf)	130 kg	1300 x 410 x 280
1013-0160	VHV-160V-L-SJ	160	55	470	105	160	725	77 KN (7546 kgf)	66 kg	940 x 280 x 220
1013-2160	VHV-160V-XL-SJ	160	55	570	105	160	825	77 KN (7546 kgf)	73 kg	940 x 280 x 220
1013-2200	VHV-200V-BL-SJ	200	60	526	110	170	790	82 KN (8036 kgf)	98 kg	809 x 370 x 290
1013-4200	VHV-200V-L-SJ	200	60	706	110	170	970	82 KN (8036 kgf)	114 kg	1205 x 410 x 280
1013-6200	VHV-200V-XL-SJ	200	60	856	110	170	1115	82 KN (8036 kgf)	126 kg	1300 x 410 x 280

## FMS COMPACT HYDRAULIC VISE (LONG OPENING)

TAIWAN

### ▶ 1014-0160~1014-7200

#### Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs  
M6 x 10 L x 2 pcs
- Vise locked block x 6 pcs
- Chip cover x 1 set



▲ 1014-0160



▲ 1014-1160



▲ 1014-2200



▲ 1014-3200

CODE No.	Mfge No.	Jaw Width	Jaw Height	Jaw Opening J(J1)	Vise Height	Total Height	Total Length	Limit. Pressure	N.W.	Shipment Size
1014-0160	VQV-160V-L	160	55	400	105	160	696	54 KN (5292 kgf)	68 kg	940 x 280 x 220
1014-2160	VQV-160V-XL	160	55	500	105	160	796	54 KN (5292 kgf)	75 kg	940 x 280 x 220
1014-2200	VQV-200V-BL	200	60	450	110	170	761	66 KN (6468 kgf)	100 kg	809 x 370 x 290
1014-4200	VQV-200V-L	200	60	630	110	170	941	66 KN (6468 kgf)	118 kg	1205 x 410 x 280
1014-6200	VQV-200V-XL	200	60	780	110	170	1086	66 KN (6468 kgf)	131 kg	1300 x 410 x 280
1014-1160	VQV-160V-L-SJ	160	55	470	105	160	696	54 KN (5292 kgf)	66 kg	940 x 280 x 220
1014-3160	VQV-160V-XL-SJ	160	55	570	105	160	796	54 KN (5292 kgf)	73 kg	940 x 280 x 220
1014-3200	VQV-200V-BL-SJ	200	60	526	110	170	761	66 KN (6468 kgf)	98 kg	809 x 370 x 290
1014-5200	VQV-200V-L-SJ	200	60	706	110	170	941	66 KN (6468 kgf)	114 kg	1205 x 410 x 280
1014-7200	VQV-200V-XL-SJ	200	60	856	110	170	1086	66 KN (6468 kgf)	127 kg	1300 x 410 x 280

## FMS COMPACT POWER VISE



### ▶ 1004-0100~1004-4250

#### FEATURES:

- Max. opening capacity and compact in total length, particularly suitable for machining centers.
- Drive spindle with clamping force presetting and stopper mechanism device.
- Rigid material- Ductile iron FCD60 JIS (equal to GGG 60) with 60 kg/mm<sup>2</sup> or 80,000 psi tensile strength.
- Vise bed flame hardened to  $\leq$  HRC 45°.
- Stationary jaw and Movable jaw are hardened HRC 52°~55° with grinding.
- Stationary jaw and Movable jaw are easy to shift on the clamping slide.
- Chip cover adopted on each Vise to prevent chips falling into Lead- screw and inside of vise.

#### Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs  
M6 x 10 L x 2 pcs
- Chip cover x 1 set
- Vise locked block x 4 pcs



▲ 1004-0160



▲ 1004-4160

#### Clamping force table

KN (kgf)

	4	3	2	1	0
VQV-100	41 (4018)	30 (2940)	17 (1666)	10 (980)	4 (392)
VQV-130	45 (4410)	34 (3332)	17 (1666)	10 (980)	4 (392)
VQV-160	54 (5292)	43 (4214)	21 (2058)	12 (1176)	5 (490)
VQV-200	66 (6468)	48 (4704)	22 (2156)	12 (1176)	5 (490)
VQV-250	70 (6860)	52 (5096)	25 (2450)	13 (1274)	5 (490)

CODE No.	Mfge No.	Jaw Width	Jaw Height	Jaw Opening J(J1)	Vise Height	Total Height	Total Length	Limit. Pressure	N.W.	Shipment Size
1004-0100	VQV-100V	100	45	155	85	130	406	41 KN (4018 kgf)	22 kg	590 x 175 x 185
1004-0130	VQV-130V	130	52	250	95	147	516	45 KN (4410 kgf)	40 kg	655 x 190 x 225
1004-0160	VQV-160V	160	55	300	105	160	581	54 KN (5292 kgf)	59 kg	760 x 190 x 215
1004-0200	VQV-200V	200	60	350	110	170	661	66 KN (6468 kgf)	90 kg	820 x 230 x 220
1004-0250	VQV-250V	250	78	550	115	193	911	70 KN (6860 kgf)	153 kg	1045 x 410 x 330
1004-4100	VQV-100V-SJ	100	45	213	85	130	406	41 KN (4018 kgf)	22 kg	590 x 175 x 185
1004-4130	VQV-130V-SJ	130	52	315	95	147	516	45 KN (4410 kgf)	40 kg	655 x 190 x 225
1004-4160	VQV-160V-SJ	160	55	370	105	160	581	54 KN (5292 kgf)	59 kg	760 x 190 x 215
1004-4200	VQV-200V-SJ	200	60	426	110	170	661	66 KN (6468 kgf)	90 kg	820 x 230 x 220
1004-4250	VQV-250V-SJ	250	78	650	115	193	911	70 KN (6860 kgf)	153 kg	1045 x 410 x 330

## FMS COMPACT MACHINE VISE (LONG OPENING)



### ▶ 1010-0160~1011-6200

#### Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs  
M6 x 10 L x 2 pcs
- Vise locked block x 4 pcs
- Chip cover x 1 set



▲ 1010-0160



▲ 1011-0160



▲ 1010-4200



▲ 1011-4200

CODE No.	Mfge No.	Jaw Width	Jaw Height	Jaw Opening J(J1)	Vise Height	Total Height	Total Length	N.W.	Shipment Size
1010-0160	VCV-160V-L	160	55	400	105	160	688	66 kg	940 x 280 x 220
1010-2160	VCV-160V-XL	160	55	500	105	160	788	72 kg	940 x 280 x 220
1010-2200	VCV-200V-BL	200	60	450	110	170	753	97 kg	809 x 370 x 290
1010-4200	VCV-200V-L	200	60	630	110	170	933	115 kg	1205 x 410 x 280
1010-6200	VCV-200V-XL	200	60	780	110	170	1078	129 kg	1300 x 410 x 280
1011-0160	VCV-160V-L-SJ	160	55	470	105	160	688	64 kg	940 x 280 x 220
1011-2160	VCV-160V-XL-SJ	160	55	570	105	160	788	70 kg	940 x 280 x 220
1011-2200	VCV-200V-BL-SJ	200	60	526	110	170	753	95 kg	809 x 370 x 290
1011-4200	VCV-200V-L-SJ	200	60	706	110	170	933	111 kg	1205 x 410 x 280
1011-6200	VCV-200V-XL-SJ	200	60	856	110	170	1078	125 kg	1300 x 410 x 280

## FMS COMPACT MACHINE VISE (ULTRA-LONG OPENING)

TAIWAN

▶ 1015-0200~1017-2200

**MECHANICAL**  
▶ 1015-0200



**MECHANICAL**  
▶ 1015-2200



**MECHANICAL / HYDRAULIC**  
▶ 1016-0200



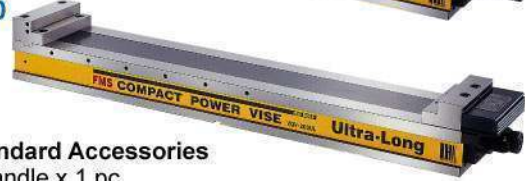
**MECHANICAL / HYDRAULIC**  
▶ 1016-2200



**MECHANICAL POWER**  
▶ 1017-0200



**MECHANICAL POWER**  
▶ 1017-2200



**Standard Accessories**

- Handle x 1 pc
- Guide key x 2 pcs
- M6 x 10 L x 2 pcs
- Chip cover x 1 set
- Vise locked block x 4 pcs

**Clamping force table**

	4	3	2	1	0
VQV-200-1100UL	66 (6468)	48 (4704)	22 (2156)	12 (1176)	5 (490)

CODE No.	Mfge No.	Jaw Width	Jaw Height	Jaw Opening J(J1)	Vise Height	Total Height	Total Length	Limit. Pressure	N.W.	Shipment Size
1015-0200	VCV-200-1100UL	200	60	1100	110	170	1398	-	160 kg	1640 x 410 x 280
1016-0200	VHV-200-1100UL	200	60	1100	110	170	1435	82 KN (8036 kgf)	163 kg	1640 x 410 x 280
1017-0200	VQV-200-1100UL	200	60	1100	110	170	1406	66 KN (6468 kgf)	163 kg	1640 x 410 x 280
1015-2200	VCV-200-1100UL-SJ	200	60	1176	110	170	1398	-	156 kg	1640 x 410 x 280
1016-2200	VHV-200-1100UL-SJ	200	60	1176	110	170	1435	82 KN (8036 kgf)	159 kg	1640 x 410 x 280
1017-2200	VQV-200-1100UL-SJ	200	60	1176	110	170	1406	66 KN (6468 kgf)	159 kg	1640 x 410 x 280

## FMS MULTIPLE COMPACT MACHINE VISE (4 IN 1 SET UP)

TAIWAN

▶ 1018-0100~1020-0160

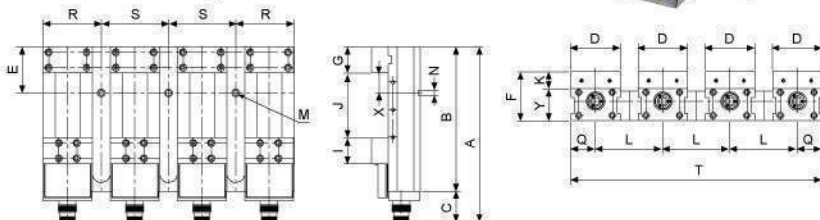
**MECHANICAL**  
▶ 1018-0160



**MECHANICAL / HYDRAULIC**  
▶ 1019-0160



**MECHANICAL POWER**  
▶ 1020-0160



**Standard Accessories**

- Handle x 1 pc
- Guide key x 2 pcs
- M6 x 10 L x 2 pcs
- Vise locked block x 4 pcs
- Chip cover x 1 set

CODE No.	Mfge No.	A	B	C	D	E	F	G	I	J	K	L	Q	R	M	N	S	T	X	Y	N.W.	Shipment Size
1018-0100	VCV-100-4S	398	300	98	101	124	145	78	64	155	45	150	50.5	125.5	M16	18	150	551	45	100	100 kg	850 x 505 x 240
1018-0130	VCV-130-4S	508	410	98	131	149	162	83	74	250	52	180	65.5	155.5	M16	18	180	671	65	110	173 kg	870 x 650 x 250
1018-0160	VCV-160-4S	573	475	98	161	152	175	86	86	300	55	220	80.5	190.5	M16	18	220	821	65	120	250 kg	1020 x 790 x 280
1019-0130	VHV-130-4S	545	410	135	131	149	162	83	74	210	52	180	65.5	155.5	M16	18	180	671	65	110	178 kg	870 x 650 x 250
1019-0160	VHV-160-4S	610	475	135	161	152	175	86	86	300	55	220	80.5	190.5	M16	18	220	821	65	120	256 kg	1020 x 790 x 280
1020-0100	VQV-100-4S	406	300	106	101	124	145	78	64	155	45	150	50.5	125.5	M16	18	150	551	45	100	102 kg	850 x 505 x 240
1020-0130	VQV-130-4S	516	410	106	131	149	162	83	74	250	52	180	65.5	155.5	M16	18	180	671	65	110	178 kg	870 x 650 x 250
1020-0160	VQV-160-4S	581	475	106	161	152	175	86	86	300	55	220	80.5	190.5	M16	18	220	821	65	120	256 kg	1020 x 790 x 280

## MC 1 UPRIGHT MOUNTING MC COMPACT VISE ON BRACKET



▶ 0730-0100~0735-0200

**FEATURES:**

- Mounting 1 MC compact vise upright on a piece of sub-plate and 1 upright bracket to be best used on horizontal machine center with pallet changer.
- Ideal for clamping 1 work-piece for machining five surfaces on horizontal machine center.
- Chip covers adopt on each Vise for prevent chips falling into lead-screw and inside of vise.

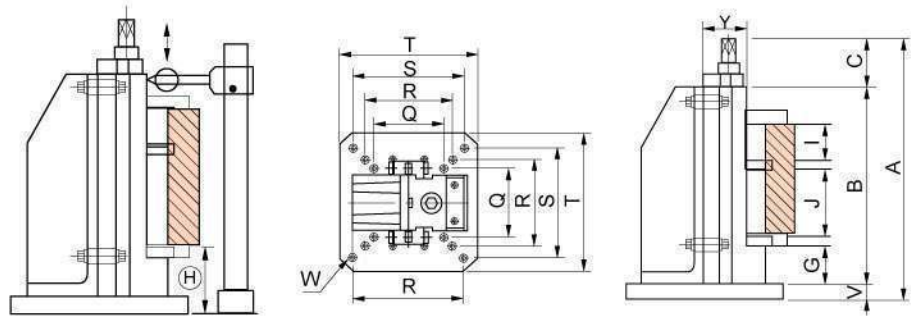


**Standard Accessories**

- Handle X 1 pcs
- Sub-plate X 1 pc
- 1 upright bracket X 1 pc

**Optional Accessories**

- Special application jaw plates



No.	Test Item	Guaranteed
1	Both vise jaw plates to bottom plate parallel within 0.020 mm	0.020 mm
2	Vise "Y" dimension with 0.020 mm	0.020 mm
3	Vise on bottom of vise bed square within 0.010 mm / 100 mm	0.010 / 100 mm

CODE No.	Mfge No.	A	B	C	D	G	I	J	Q	R	S	T	V	W	Y	N.W.
0730-0100	CV-100V1	470	340	90	101	65	105	0-125	125	160	200	300	40	M16	85	61 kg
0730-0130	CV-130V1	535	405	90	131	70	115	0-180		160	200	300	40	M16	95	78 kg
0730-0160	CV-160V1	625	495	90	161	85	130	0-240	200	250	320	400	40	M16	105	133 kg
0730-0200	CV-200V1	706	570	90	201	90	150	0-280		250	320	400	40	M16	110	170 kg
0731-0100	CHV-100V1	515	340	135	101	65	105	0-125	125	160	200	300	40	M16	85	69 kg
0731-0130	CHV-130V1	580	405	135	131	70	115	0-180		160	200	300	40	M16	95	79 kg
0731-0160	CHV-160V1	670	495	135	161	85	130	0-240	200	250	320	400	40	M16	105	134 kg
0731-0200	CHV-200V1	745	570	135	201	90	150	0-280		250	320	400	40	M16	110	171 kg
0732-0100	CHV-100V1-D	552	340	172	101	65	105	0-125	125	160	200	300	40	M16	85	74 kg
0732-0130	CHV-130V1-D	617	405	172	131	70	115	0-180		160	200	300	40	M16	95	83 kg
0732-0160	CHV-160V1-D	707	495	172	161	85	130	0-240	200	250	320	400	40	M16	105	139 kg
0732-0200	CHV-200V1-D	782	570	172	201	90	150	0-280		250	320	400	40	M16	110	176 kg
0733-0100	CMV-100V1	515	340	135	101	65	105	0-125	125	160	200	300	40	M16	85	69 kg
0733-0130	CMV-130V1	580	405	135	131	70	115	0-180		160	200	300	40	M16	95	79 kg
0733-0160	CMV-160V1	670	495	135	161	85	130	0-240	200	250	320	400	40	M16	105	134 kg
0733-0200	CMV-200V1	745	570	135	201	90	150	0-280		250	320	400	40	M16	110	171 kg
0735-0100	DAV-100V1	535	410	85	101		80	0-75	125	160	200	300	40	M16	80	72 kg
0735-0130	DAV-130V1	575	450	85	131		90	0-85		160	200	300	40	M16	85	80 kg
0735-0160	DAV-160V1	625	500	85	161		100	0-100	200	250	320	400	40	M16	90	133 kg
0735-0200	DAV-200V1	767	642	85	201		110	0-150		250	320	400	40	M16	95	176 kg

## MC 2 UPRIGHT MOUNTING MC COMPACT VISE

▶ 0740-0100~0745-0200

### FEATURES:

- Mounting 2 MC compact vise upright on a piece of sub-plate to be best used on horizontal machine center with pallet changer.
- Ideal for clamping 2 work-piece for machining five surfaces on horizontal machine center.
- Mechanical, mechanical/hydraulic type and with 90° driving mechanism unit for your best choice.
- Chip covers adopt on each Vise to prevent chips falling into lead-screw and inside of vise.

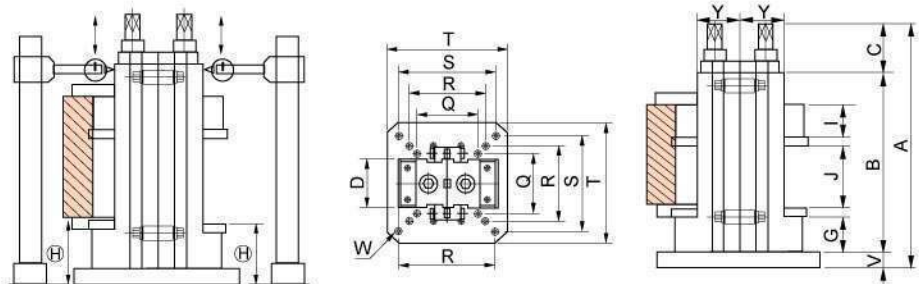


### Standard Accessories

- Handle x 2 pcs
- Sub-plate x 1 pc

### Optional Accessories

- Special application jaw plates



No.	Test Item	Guaranteed
1	Both vise jaw plates to bottom plate parallel within 0.020 mm	0.020 mm
2	Vise "Y" dimension with 0.020 mm	0.020 mm
3	Vise on bottom of vise bed square within 0.010 mm / 100 mm	0.010 / 100 mm

CODE No.	Mfge No.	A	B	C	D	G	I	J	Q	R	S	T	V	W	Y	N.W.
0740-0100	CV-100V2	470	340	90	101	65	105	0-125	125	160	200	300	40	M16	85	67 kg
0740-0130	CV-130V2	535	405	90	131	70	115	0-180		160	200	300	40	M16	95	93 kg
0740-0160	CV-160V2	625	495	90	161	85	130	0-240	200	250	320	400	40	M16	105	150 kg
0740-0200	CV-200V2	706	570	90	201	90	150	0-280		250	320	400	40	M16	110	208 kg
0741-0100	CHV-100V2	515	340	135	101	65	105	0-125	125	160	200	300	40	M16	85	69 kg
0741-0130	CHV-130V2	580	405	135	131	70	115	0-180		160	200	300	40	M16	95	95 kg
0741-0160	CHV-160V2	670	495	135	161	85	130	0-240	200	250	320	400	40	M16	105	152 kg
0741-0200	CHV-200V2	745	570	135	201	90	150	0-280		250	320	400	40	M16	110	210 kg
0742-0100	CHV-100V2-D	552	340	172	101	65	105	0-125	125	160	200	300	40	M16	85	73 kg
0742-0130	CHV-130V2-D	617	405	172	131	70	115	0-180		160	200	300	40	M16	95	99 kg
0742-0160	CHV-160V2-D	707	495	172	161	85	130	0-240	200	250	320	400	40	M16	105	156 kg
0742-0200	CHV-200V2-D	782	570	172	201	90	150	0-280		250	320	400	40	M16	110	215 kg
0743-0100	CMV-100V2	515	340	135	101	65	105	0-125	125	160	200	300	40	M16	85	69 kg
0743-0130	CMV-130V2	580	405	135	131	70	115	0-180		160	200	300	40	M16	95	95 kg
0743-0160	CMV-160V2	670	495	135	161	85	130	0-240	200	250	320	400	40	M16	105	152 kg
0743-0200	CMV-200V2	745	570	135	201	90	150	0-280		250	320	400	40	M16	110	210 kg
0745-0100	DAV-100V2	535	410	85	101		80	0-75	125	160	200	300	40	M16	80	75 kg
0745-0130	DAV-130V2	575	450	85	131		90	0-85		160	200	300	40	M16	85	99 kg
0745-0160	DAV-160V2	625	500	85	161		100	0-100	200	250	320	400	40	M16	90	156 kg
0745-0200	DAV-200V2	767	642	85	201		110	0-150		250	320	400	40	M16	95	220 kg



## MC 4 UPRIGHT MOUNTING MC COMPACT VISE ON JIG BLOCK



▶ 0750-0100~0753-0200

### FEATURES:

- Mounting 4 MC compact vise upright on a piece of sub-plate to be best used on horizontal machine center with pallet changer.
- Ideal for clamping 4 work-piece for machining five surfaces on horizontal machine center.
- Mechanical, mechanical / hydraulic type and with 90° driving mechanism unit for your best choice.
- Chip covers adopt on each vise to prevent chips falling into lead-screw and inside of vise.



▲ 0750-0160



▲ 0751-0160



▲ 0752-0160



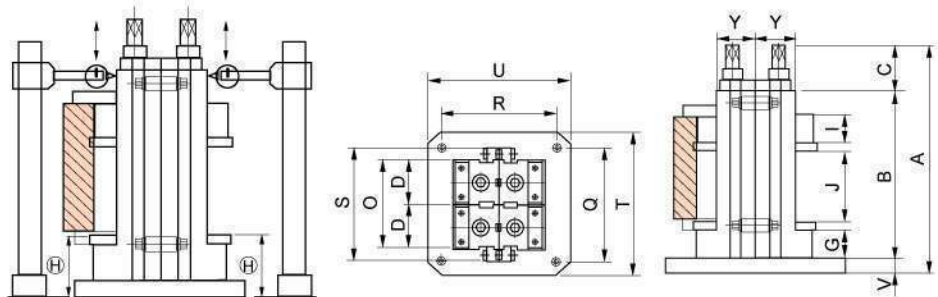
▲ 0753-0160

### Standard Accessories

- Handle x 4 pcs
- Sub-plate x 1 pc

### Optional Accessories

- Special application jaw plates



No.	Test Item	Guaranteed
1	Both vise jaw plates to bottom plate parallel within 0.020 mm	0.020 mm
2	Vise "Y" dimension with 0.020 mm	0.020 mm
3	Vise on bottom of vise bed square within 0.010 mm / 100 mm	0.010/100 mm

CODE No.	Mfge No.	A	B	C	D	G	I	J	Q	R	S	T	V	W	Y	N.W.
0750-0100	CV-100V4	470	340	90	101	65	105	0-125	320	320	304	400	40	M16	85	119 kg
0750-0130	CV-130V4	535	405	90	131	70	115	0-180	320	320	364	400	40	M16	95	183 kg
0750-0160	CV-160V4	625	495	90	161	85	130	0-240	400	400	424	500	40	M16	105	280 kg
0750-0200	CV-200V4	706	570	90	201	90	150	0-280	400	400	504	500	40	M18	110	380 kg
0751-0100	CHV-100V4	515	340	135	101	65	105	0-125	320	320	304	400	40	M16	85	121 kg
0751-0130	CHV-130V4	580	405	135	131	70	115	0-180	320	320	364	400	40	M16	95	173 kg
0751-0160	CHV-160V4	670	495	135	161	85	130	0-240	400	400	424	500	40	M16	105	266 kg
0751-0200	CHV-200V4	745	570	135	201	90	150	0-280	400	400	504	500	40	M18	110	382 kg
0752-0100	CHV-100V4-D	552	340	172	101	65	105	0-125	320	320	304	400	40	M16	85	125 kg
0752-0130	CHV-130V4-D	617	405	172	131	70	115	0-180	320	320	364	400	40	M16	95	177 kg
0752-0160	CHV-160V4-D	707	495	172	161	85	130	0-240	400	400	424	500	40	M16	105	270 kg
0752-0200	CHV-200V4-D	782	570	172	201	90	150	0-280	400	400	504	500	40	M18	110	386 kg
0753-0100	CMV-100V4	515	340	135	101	65	105	0-125	320	320	304	400	40	M16	85	121 kg
0753-0130	CMV-130V4	580	405	135	131	70	115	0-180	320	320	364	400	40	M16	95	173 kg
0753-0160	CMV-160V4	670	495	135	161	85	130	0-240	400	400	424	500	40	M16	105	266 kg
0753-0200	CMV-200V4	745	570	135	201	90	150	0-280	400	400	504	500	40	M18	110	382 kg

## MC 2 UPRIGHT MOUNTING MC COMPACT VISE



▶ 0760-0100~0765-0200

### FEATURES:

- Mounting 4 MC compact vise upright on a piece of jig block to be best used on horizontal machine center with pallet changer.
- Ideal for clamping 4 work piece for machining five surfaces on horizontal machine center.
- Chip covers adopt on each vise to prevent chips falling into lead-screw and inside of vise.



▲ 0760-0160



▲ 0761-0160



▲ 0762-0160



▲ 0763-0160



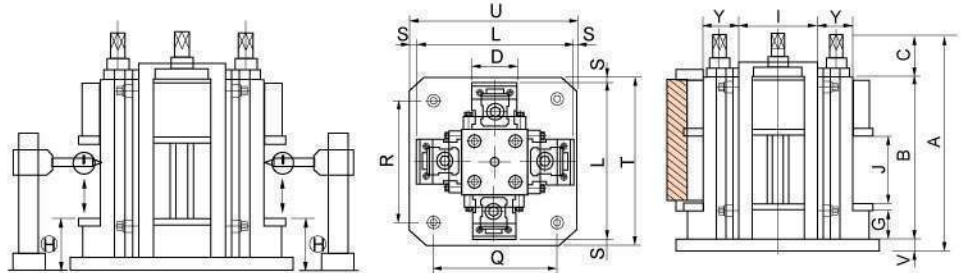
▲ 0765-0160

### Standard Accessories

- Handle x 4 pcs
- Sub-plate x 1 pc
- Jig block x 1 pc

### Optional Accessories

- Special application jaw plates.



No.	Test Item	Guaranteed
1	Both vise jaw plates to bottom plate parallel within 0.020 mm	0.020 mm
2	Vise "Y" dimension with 0.020 mm	0.020 mm
3	Vise on bottom of vise bed square within 0.010 mm/100 mm	0.010/100 mm

CODE No.	Mfge No.	A	B	C	D	G	I	J	Q	R	S	T	V	W	Y	N.W.
0760-0100	CV-100V4B	470	340	90	101	65	150	0-125	320	320	17	450	40	M16	85	193 kg
0760-0130	CV-130V4B	535	405	90	131	70	180	0-180	320	320	10	500	40	M16	95	296 kg
0760-0160	CV-160V4B	625	495	90	161	85	210	0-240	400	400	7	550	40	M16	105	396 kg
0760-0200	CV-200V4B	711	570	90	201	90	250	0-280	500	500	2	600	45	M18	110	584 kg
0761-0100	CHV-100V4B	515	340	135	101	65	150	0-125	320	320	17	450	40	M16	85	197 kg
0761-0130	CHV-130V4B	580	405	135	131	70	180	0-180	320	320	10	500	40	M16	95	300 kg
0761-0160	CHV-160V4B	670	495	135	161	85	210	0-240	400	400	7	550	40	M16	105	432 kg
0761-0200	CHV-200V4B	750	570	135	201	90	250	0-280	500	500	2	600	45	M18	110	553 kg
0762-0100	CHV-100V4B-D	552	340	172	101	65	150	0-125	320	320	17	450	40	M16	85	217 kg
0762-0130	CHV-130V4B-D	617	405	172	131	70	180	0-180	320	320	10	500	40	M16	95	320 kg
0762-0160	CHV-160V4B-D	707	495	172	161	85	210	0-240	400	400	7	550	40	M16	105	452 kg
0762-0200	CHV-200V4B-D	787	570	172	201	90	250	0-280	500	500	2	600	45	M18	110	610 kg
0763-0100	CMV-100V4B	515	340	135	101	65	150	0-125	320	320	17	450	40	M16	85	197 kg
0763-0130	CMV-130V4B	580	405	135	131	70	180	0-180	320	320	10	500	40	M16	95	300 kg
0763-0160	CMV-160V4B	670	495	135	161	85	210	0-240	400	400	7	550	40	M16	105	432 kg
0763-0200	CMV-200V4B	750	570	135	201	90	250	0-280	500	500	2	600	45	M18	110	588 kg
0765-0100	DAV-100V4B	535	410	85	101		150	0-75	320	320	22	450	40	M16	80	206 kg
0765-0130	DAV-130V4B	575	450	85	131		180	0-85	320	320	20	500	40	M16	85	308 kg
0765-0160	DAV-160V4B	625	500	85	161		210	0-100	400	400	22	550	40	M16	90	386 kg
0765-0200	DAV-200V4B	772	642	85	201		250	0-150	500	500	17	600	45	M18	95	608 kg

## SPECIAL APPLICATION JAW PLATES

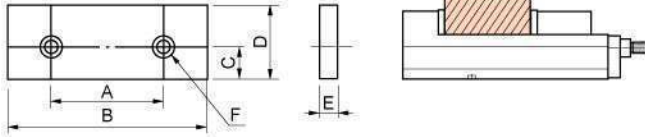
TAIWAN

Unit:mm

(HARDENED HRC55°~58°)

PJ-100S, 130S, 160S, 200S, 250S

PJ-100V, 130V, 160V, 200V, 250V (E=0.02)

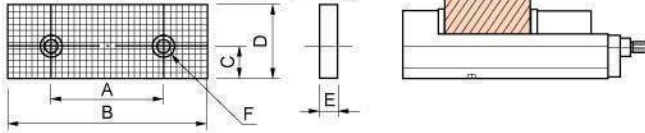


	0788-8002	0788-8006	0788-8010	0788-8014	0788-8018
PJ	100	130	160	200	250
A	60	90	90	120	160
B	100	130	160	200	250
C	22	25	25	28	35
D	48	55	58	63	80
E	15	15	15	18	21
F	M10x20L	M10x20L	M10x20L	M12x25L	M12x25L

(HARDENED HRC55°~58°)

PJ-100S, 130S, 160S, 200S, 250S

PJ-100V, 130V, 160V, 200V, 250V (E=0.02)

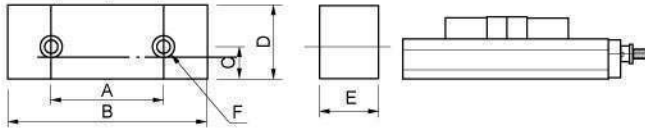


	0788-8022	0788-8026	0788-8030	0788-8034	0788-8038
RJ	100	130	160	200	250
A	60	90	90	120	160
B	100	130	160	200	250
C	22	25	25	28	35
D	48	55	58	63	80
E	15	15	15	18	21
F	M10x20L	M10x20L	M10x20L	M12x25L	M12x25L

(HARDENED HRC55°~58°) (FOR DAV)

PJ-1001, 1301, 1601, 2001

PJ-1002, 1302, 1602, 2002

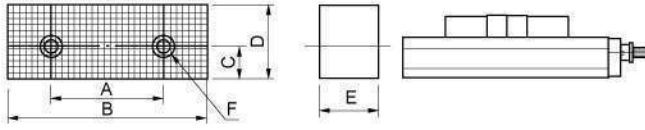


	0788-8132	0788-8136	0788-8140	0788-8144	0788-8148	0788-8152	0788-8156	0788-8160
PJ	1001	1301	1601	2001	1002	1302	1602	2002
A	60	90	90	120	60	90	90	120
B	100	130	160	200	100	130	160	200
C	22	25	25	28	22	25	25	28
D	48	55	58	63	63	73	73	102
E	48	48	48	63	48	48	48	63
F	M10x50L	M10x50L	M10x50L	M12x65L	M10x50L	M10x50L	M10x50L	M12x65L

(HARDENED HRC 55°~58°) (FOR DAV)

RJ-1003, 1303, 1603, 2003

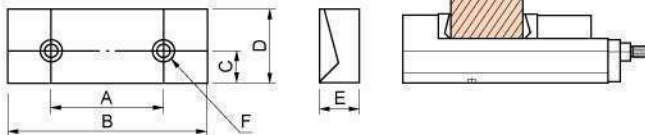
RJ-1004, 1304, 1604, 2004



	0788-8164	0788-8168	0788-8172	0788-8176	0788-8180	0788-8184	0788-8188	0788-8192
RJ	1003	1303	1603	2003	1004	1304	1604	2004
A	60	90	90	120	60	90	90	120
B	100	130	160	200	100	130	160	200
C	22	25	25	28	22	25	25	28
D	48	55	58	63	63	73	73	102
E	48	48	48	63	48	48	48	63
F	M10x50L	M10x50L	M10x50L	M12x65L	M10x50L	M10x50L	M10x50L	M12x65L

(HARDENED HRC 55°~58°)

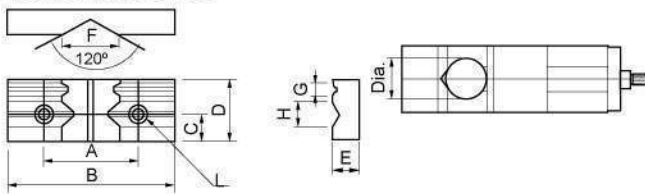
DJ-100, 130, 160, 200



	0788-8042	0788-8044	0788-8046	0788-8048
DJ	100	130	160	200
A	60	90	90	120
B	100	130	160	200
C	22	25	25	28
D	48	55	58	65
E	32	32	32	32
F	M10x20L	M10x20L	M12x20L	M12x25L

(HARDENED HRC 55°~58°)

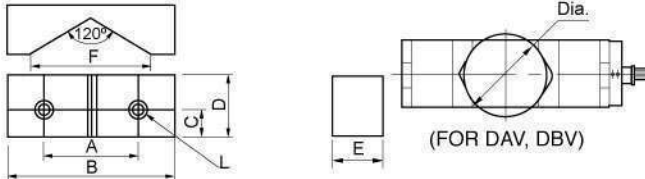
CJ-100, 130, 160, 200, 250



	0788-8050	0788-8052	0788-8054	0788-8056	0788-8058
CJ	100	130	160	200	250
A	60	90	90	120	160
B	100	130	160	200	250
C	22	25	25	28	35
D	48	55	58	63	80
E	24	24	30	36	36
F	55	55	55	70	70
G		12	12	12	12
H	25	25	25	30	30
L	M10x16L	M10x16L	M10x16L	M12x16L	M12x16L
Dia.	40-100	40-100	40-100	50-140	50-140

(HARDENED HRC 55°~58°)

CJ-1005, 1305, 1605, 2005, 2006

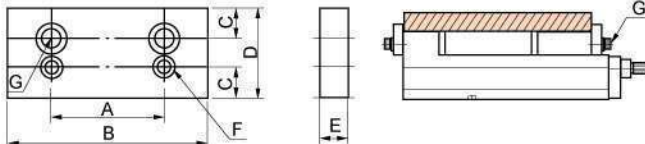


	0788-8240	0788-8242	0788-8244	0788-8246	0788-8248
CJ	1005	1305	1605	2005	2006
A	60	90	90	120	120
B	100	130	160	200	200
C	22	25	25	28	28
D	48	55	58	63	63
E	42	48	48	48	63
F	94	120	120	120	184
G					
H					
L	M10x16L	M10x16L	M10x16L	M12x16L	M12x16L
Dia.	100-180	100-230	100-230	110-220	220-340

(HARDENED HRC 55°~58°)

LJ-100S, 130S, 160S, 200S

LJ-100V, 130V, 160V, 200V (E=0.02)



	0788-8060	0788-8064	0788-8068	0788-8072
LJ	100	130	160	200
A	60	90	90	120
B	100	130	160	200
C	22	25	25	28
D	63	69	73	88
E	21	23	23	30
F	M10x25L	M10x30L	M10x30L	M12x35L
G	M12x45L	M12x45L	M14x55L	M16x65L

Competitive Quality through Efficiency

## SPECIAL APPLICATION JAW PLATES

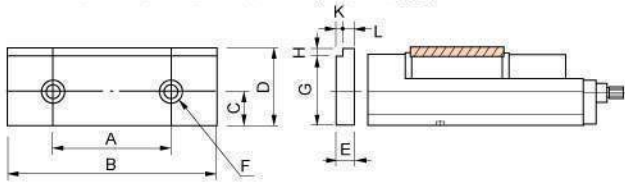
Unit:mm

TAIWAN

(HARDENED HRC 55~58°)

SJ-100S, 130S, 160S, 200S, 250S

SJ-100V, 130V, 160V, 200V, 250V (E,L,G= 0.02)

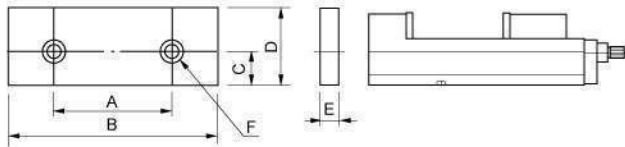


	0788-8076	0788-8080	0788-8084	0788-8088	0788-8090
SJ	100	130	160	200	250
A	60	90	90	120	160
B	100	130	160	200	250
C	22	25	25	28	35
D	48	55	58	63	80
E	15	15	15	18	21
F	M10x20L	M10x20L	M10x20L	M12x25L	M12x25L
G	43	50	53	58	75
H	5	5	5	5	10
K	5	5	5	5	5
L	10	10	10	13	18

SOFT JAW (WITHOUT HARDENED & GROUND)

FJ-1001, 1002, 1003 FJ-1301, 1302, 1303

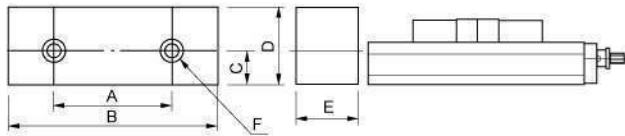
FJ-1601, 1602, 1603 FJ-2001, 2002, 2003



	FJ	A	B	C	D	E	F
0788-8092	1001	60	100	22	48	15	M10x20L
0788-8094	1002	60	100	22	63	21	M10x25L
0788-8096	1003	60	100	22	73	23	M10x30L
0788-8098	1301	90	130	25	55	15	M10x20L
0788-8100	1302	90	130	25	73	23	M10x25L
0788-8102	1303	90	130	25	103	30	M10x35L
0788-8104	1601	90	160	25	58	15	M10x20L
0788-8106	1602	90	160	25	73	23	M10x25L
0788-8108	1603	90	160	25	103	30	M10x35L
0788-8110	2001	120	200	28	63	18	M12x25L
0788-8112	2002	120	200	28	103	30	M12x35L
0788-8114	2003	120	200	28	123	36	M12x45L

SOFT JAW (WITHOUT HARDENED & GROUND)

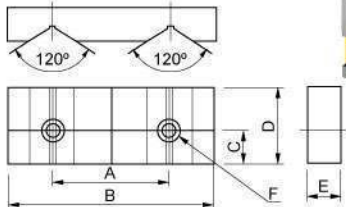
FJ-1004, 1005 FJ-1304, 1305 FJ-1604, 1605 FJ-2004, 2005



	FJ	A	B	C	D	E	F
0788-8116	1004	60	100	22	48	48	M10x20L
0788-8118	1005	60	100	22	63	48	M10x20L
0788-8120	1304	90	130	25	63	48	M10x20L
0788-8122	1305	90	130	25	73	48	M10x20L
0788-8124	1604	90	160	25	63	48	M10x20L
0788-8126	1605	90	160	25	73	48	M10x20L
0788-8128	2004	120	200	28	63	63	M12x25L
0788-8130	2005	120	200	28	102	63	M12x25L

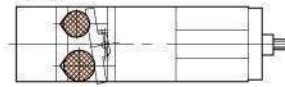
DOUBLE V JAW

VJ-100, 130, 160, 200

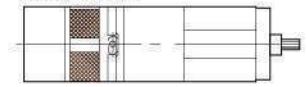


**PATENTED**  
(HARDENED HRC 55~58°)

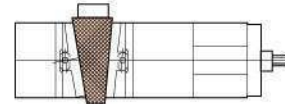
• 1 PC double v jaw+1 set balance jaw plates, it can match 2 different size parts.



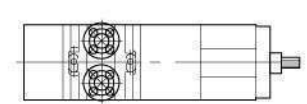
• 1 PC flat jaw plate+1 set balance jaw plates, it can match 2 different clearance parts.



• 2 Sets balance jaw plates (hardened) it can match angle part.



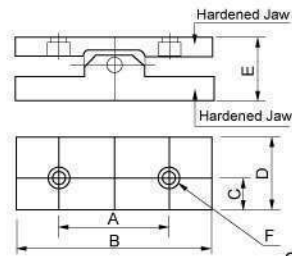
• 2 Set balance jaw plates (soft) it can match 2 irregular parts.



BALANCE JAW

(HARDENED HRC 55~58°)

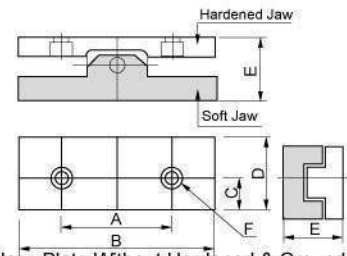
TJ-100, 130, 160, 200



BALANCE JAW

(SOFT JAW PLATE)

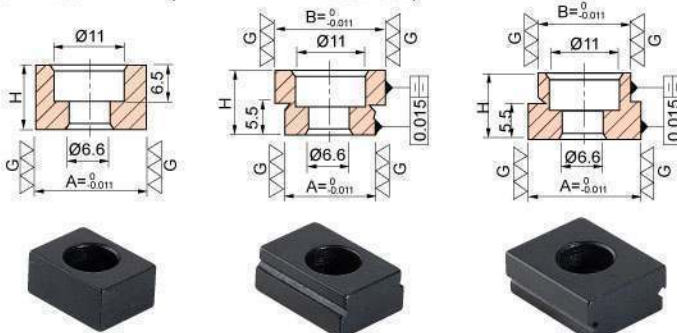
TJ-100F, 130F, 160F, 200F



Soft Jaw Plate Without Hardened & Ground.

		A	B	C	D	E	F	REMARK
0788-8200	VJ-100	60	100	22	48	24	M10x20L	ø10-65 mm
0788-8202	VJ-130	90	130	25	55	24	M10x20L	ø10-65 mm
0788-8204	VJ-160	90	160	25	58	24	M10x20L	ø10-65 mm
0788-8206	VJ-200	120	200	28	63	30	M12x25L	ø25-85 mm
0788-8210	TJ-100	60	100	22	48	48	M10x20L	18°
0788-8212	TJ-130	90	130	25	55	55	M10x20L	13°
0788-8214	TJ-160	90	160	25	58	58	M10x20L	11°
0788-8216	TJ-200	120	200	28	63	63	M12x25L	9°
0788-8220	TJ-100F	60	100	22	48	48	M10x25L	18°
0788-8222	TJ-130F	90	130	25	55	55	M10x20L	13°
0788-8224	TJ-160F	90	160	25	58	58	M10x20L	11°
0788-8226	TJ-200F	120	200	28	63	63	M12x25L	9°

STEP GUIDE KEY (HARDENED HRC 55~58°)



		A	B	H	L
0790-1612	KA16x12	16	12	10	25
0790-1614	KA16x14	16	14	10	25
0790-1618	KA16x18	16	18	10	25
0790-1620	KA16x20	16	20	10	25
0790-1622	KA16x22	16	22	10	25
0790-1812	KA18x12	18	12	10	25
0790-1814	KA18x14	18	14	10	25
0790-1816	KA18x16	18	16	10	25
0790-1820	KA18x20	18	20	10	25
0790-1822	KA18x22	18	22	10	25
0790-1212	KA12x12	12		8	22
0790-1414	KA14x14	14		10	22
0790-1616	KA16x16	16		10	22
0790-1818	KA18x18	18		10	22
0790-2020	KA20x20	20		10	22
0790-2222	KA22x22	22		12	25

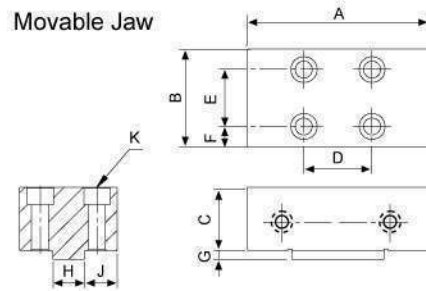
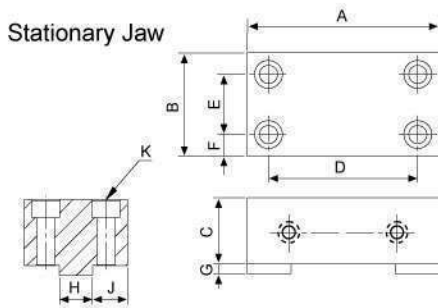
## STATIONARY JAW. MOVABLE JAW. STEP JAW



▶ 1090-0100~1091-0250  
HARDENED JAW (HRC 52°~55°)

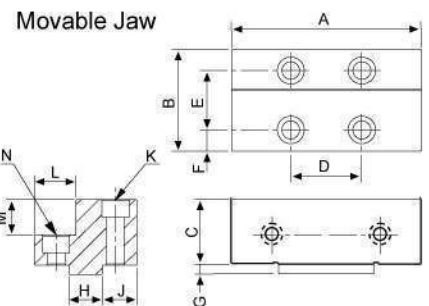
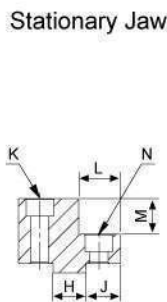
▶ 1090-2100~1091-2250  
SOFT JAW (Without ground)

▶ 1090-4100~1091-4250  
ALUMINUM JAW (Without ground)



Hardened Jaw HRC 52°~55° Ground		Soft Jaw Without Ground		Aluminum Jaw													
CODE No.	Mfge No.	CODE No.	Mfge No.	CODE No.	Mfge No.	A	B	C	D	E	F	G	H	J	K	N.W.	
Stationary Jaw	1090-0100	MA-100A	1090-2100	MA-100B	1090-4100	MA-100C	100	78	45	74	44	19.5	7	18	32.5	M10 x 50L	3 kg
	1090-0130	MA-130A	1090-2130	MA-130B	1090-4130	MA-130C	130	83	52	95	45	21.5	8	24	32	M12 x 55L	4 kg
	1090-0160	MA-160A	1090-2160	MA-160B	1090-4160	MA-160C	160	86	55	124	50	18	8	28	29	M14 x 65L	6 kg
	1090-0200	MA-200A	1090-2200	MA-200B	1090-4200	MA-200C	200	100	60	150	62	19	9.5	28	36	M16 x 65L	9 kg
	1090-0250	MA-250A	1090-2250	MA-250B	1090-4250	MA-250C	250	124	78	200	75	24.5	9.5	30	47	M20 x 90L	17.6 kg
Movable Jaw	1091-0100	MB-100A	1091-2100	MB-100B	1091-4100	MB-100C	100	64	45	37	35	14.5	7.5	18	23	M10 x 50L	2.5 kg
	1091-0130	MB-130A	1091-2130	MB-130B	1091-4130	MB-130C	130	74	52	45	42	16	8.5	24	25	M12 x 55L	4.5 kg
	1091-0160	MB-160A	1091-2160	MB-160B	1091-4160	MB-160C	160	86	55	60	50	18	8.5	28	29	M14 x 65L	6 kg
	1091-0200	MB-200A	1091-2200	MB-200B	1091-4200	MB-200C	200	97	60	74	59	19	9.5	28	34.5	M16 x 70L	9 kg
	1091-0250	MB-250A	1091-2250	MB-250B	1091-4250	MB-250C	250	124	78	92	75	24.5	9.5	30	47	M20 x 90L	17.6 kg

▶ 1092-0100~1093-0250



Hardened Jaw HRC 52°~55° Ground																
CODE No.	Mfge No.	A	B	C	D	E	F	G	H	J	K	L	M	M	N.W.	
Stationary Jaw	1092-0100	MC-100A	100	78	45	74	44	19.5	7	18	32.5	M10 x 50L	32.5	25	M10 x 25L	2 kg
	1092-0130	MC-130A	130	83	52	95	45	21.5	8	24	32	M12 x 55L	35	30	M12 x 25L	3 kg
	1092-0160	MC-160A	160	86	55	124	50	18	8	28	29	M14 x 65L	35	30	M14 x 30L	4.2 kg
	1092-0200	MC-200A	200	100	60	150	62	19	9.5	28	36	M16 x 70L	38	30	M16 x 40L	7 kg
	1092-0250	MC-250A	250	124	78	200	75	24.5	9.5	30	47	M20 x 90L	50	40	M20 x 50L	14 kg
Movable Jaw	1093-0100	MD-100A	100	64	45	37	35	14.5	7.5	18	23	M10 x 50L	26	25	M10 x 25L	1.5 kg
	1093-0130	MD-130A	130	74	52	45	42	16	8.5	24	25	M12 x 55L	30	30	M12 x 25L	2.8 kg
	1093-0160	MD-160A	160	86	55	60	50	18	8.5	28	29	M14 x 65L	35	30	M14 x 30L	4.2 kg
	1093-0200	MD-200A	200	97	60	74	59	19	9.5	28	34.5	M16 x 70L	38	30	M16 x 40L	7 kg
	1093-0250	MD-250A	250	124	78	92	75	24.5	9.5	30	47	M20 x 90L	50	40	M20 x 50L	14 kg

## MOST SUITABLE FOR VERTICAL MACHINE CENTER



▶ 0771-2130~0771-4200

### FEATURES:

- The Universal Tilt Working Table is suitable for MC machining center, milling machine, EDM and other special machines to carry out tilt processing operation.
- Slant degree is between 0°~ 45°. Angle can be fine tuned with worm and worm gear.
- Each fine-tuning scale equals 2 degree. The smallest scale is 60 seconds with another 1/60-second marks on the secondary scale.
- The body is made of steel with high rigidity. Sliding surface is heat treated and processed with fine grinding.
- Once the tuning is fixed and properly fastened, heavy duty work can be performed. There will be no loss of accuracy caused by heavy duty work.
- This Universal Tilt Working Table can be categorized into two types:
  - A) Working table with T slot which can lock work piece for heavy duty machining (0°~ 45° adjustable angle)
  - B) Working table which can be in-cooperated with vise for heavy duty machining (adjustable 0° ~ 45° working table and 0°~ 360° vise rotary angle)



0 ~ 45°

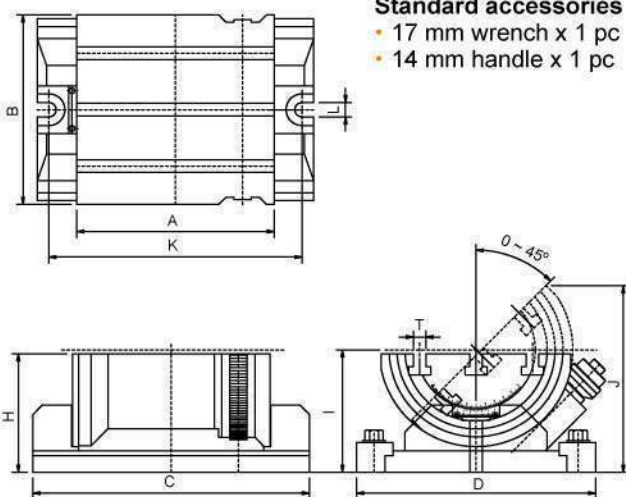


0 ~ 45°

0 ~ 360°

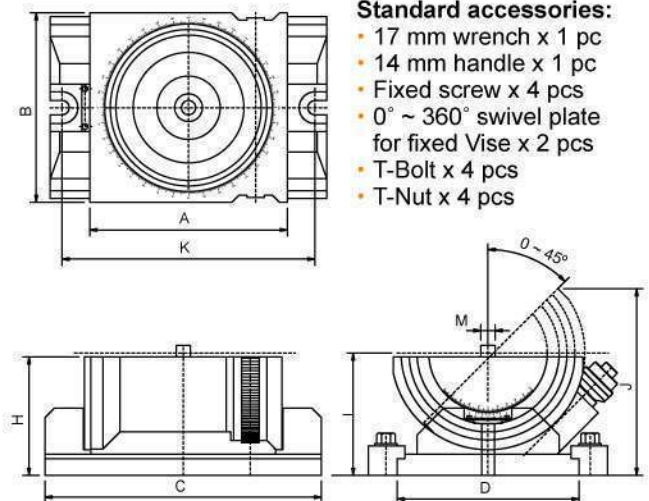
- This model can fasten the work piece directly on to the working table and carry out 0° ~ 45° machining. It can in cooperated with vise which can't be adjusted with in 0° ~ 360°.

- Working table can be tilted 0° ~ 45° degree and vise can be turned around 0° ~ 360° degree.



### Standard accessories

- 17 mm wrench x 1 pc
- 14 mm handle x 1 pc



### Standard accessories:

- 17 mm wrench x 1 pc
- 14 mm handle x 1 pc
- Fixed screw x 4 pcs
- 0° ~ 360° swivel plate for fixed Vise x 2 pcs
- T-Bolt x 4 pcs
- T-Nut x 4 pcs

CODE No.	Mfge No.	A	B	C	D	H	I	J	K	L	T	Title Angle	N.W.	G.W.	Shipment Size
0771-2130	TSB-130T	200	196	300	180	122	127	192	270	18	18	0~45°	30 kg		
0771-2160	TSB-160T	250	240	350	230	150	155	236	320	18	18	0~45°	55 kg		
0771-2200	TSB-200T	290	280	410	255	174	179	274	370	18	18	0~45°	88 kg	93.5 kg	500 x 410 x 260

CODE No.	Mfge No.	A	B	C	D	H	I	J	K	M	Title Angle	Swivel Angle	N.W.	G.W.	Shipment Size
0771-4100	TSB-100U	200	196	300	180	122	127	192	270	16	0~45°	0~360°	33 kg		
0771-4130	TSB-130U	200	196	300	180	122	127	192	270	18	0~45°	0~360°	33 kg		
0771-4160	TSB-160U	250	240	350	230	150	155	236	320	18	0~45°	0~360°	58 kg		
0771-4200	TSB-200U	290	280	410	255	174	179	274	370	18	0~45°	0~360°	90 kg	96 kg	500 x 410 x 260

## HEAVY DUTY DRILL PRESS VISE WITH LOCK DOWN JAW



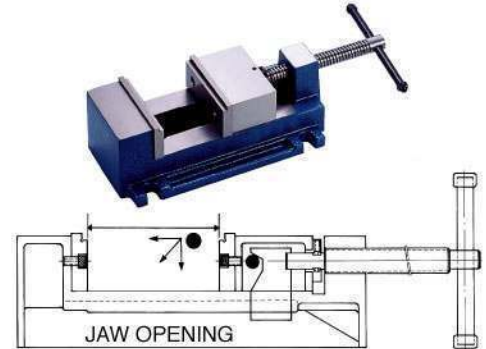
▶ 0786-0100~0786-0160

**FEATURES:**

- Lock down jaw mechanism, eliminates jaw lifting and work-piece tilting.
- High tensile DUCTILE IRON. (FCD45)
- Vise bottom and sliding ways are precision ground.
- Step jaw plates are hardened to HRC52 and precision ground.
- Precision lead screw supported by steel balls design for smoother movement.

CODE No.:07860100 DV-100 07860130 DV-130 07860160 DV-160

PATENTED IN TAIWAN (NO.97604)



- Surface of vise bed parallel to bottom of vise body within 0.03 M/m.
- Jaw plate to sliding ways square within 0.03 M/m.

CODE No.	Model	Jaw Plate Height	Jaw Plate Width	Jaw Opening	N.W.	G.W.	Shipment Size
0786-0100	DV-100 (4")	43	100	95 / 105	6.0 kg	6.2 kg	310 x 150 x 85
0786-0130	DV-130 (5")	44	130	100 / 110	8.2 kg	8.4 kg	327 x 188 x 94
0786-0160	DV-160 (6")	44	160	105 / 115	10.1 kg	10.4 kg	340 x 224 x 100

## QUICK GRIP DRILL PRESS VISE



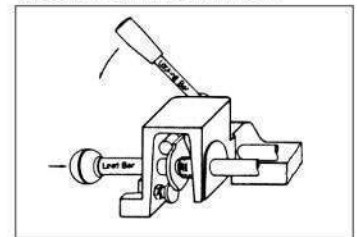
▶ 6666-1033~6667-1034



▲ 6667-1033/1034

▲ 6666-1033/1038

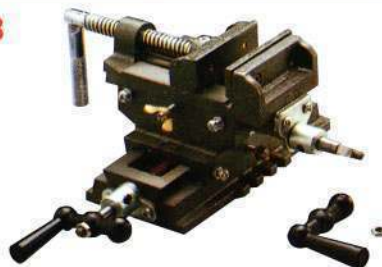
**LOCKING MECHANISM**



\* PRISMATIC JAW AVAILABLE.

CODE No.	Width of Jaws	Jaw Opening	Net Weight
6666-1033	81.5 mm (3-1/4")	59 mm (2-3/4")	3.5 kg / 7.7 Lbs
6666-1034	106 mm (4-5/16")	106 mm (4-1/4")	6.1 kg / 13.4 Lbs
6666-1036	165 mm (6")	165 mm (6")	13.2 kg / 29.1 Lbs
6666-1038	200 mm (8")	200 mm (8")	16.7 kg / 41.1 Lbs
6667-1033	80 mm (3-1/8")	75 mm (3")	4.7 kg / 10.4 Lbs
6667-1034	105 mm (4-1/8")	120 mm (4-3/4")	8 kg / 7.6 Lbs

▶ 6669-1073~6669-1078



▲ 6669-1073

CODE No.	Jaw Open mm/in	Width of Jaws	Depth of Jaw	Long Travel	Cross Travel	Net Weight ± 0.05
6669-1073	75 mm (3")	80 mm (3-1/4")	26 mm (1-1/16")	81 mm (3-1/4")	81 mm (3-1/4")	6.3 kg (18.9 Lbs)
6669-1074	100 mm (4")	100 mm (4")	35 mm (1-3/8")	100 mm (4")	100 mm (4")	9.4 kg (20.7 Lbs)
6669-1075	125 mm (5")	125 mm (5")	38 mm (1-1/2")	125 mm (5")	125 mm (5")	13.0 kg (28.6 Lbs)
6669-1076	165 mm (6")	165 mm (6")	10 mm (1-9/16")	165 mm (6")	165 mm (6")	16.9 kg (37.2 Lbs)
6669-1078	200 mm (8")	207 mm (7-7/8")	50 mm (2")	200 mm (8")	200 mm (8")	29 kg (63.8 Lbs)

## STEEL DRILL VISES

TAIWAN

### ▶ 4033-1013~4033-1025

**THE BODY MADE OF CASTING STEEL, JAWS ARE HARDENED AND WITH 1 HORIZONTAL AND 3 VERTICAL "V" GROOVE, PROVIDED RIGID HOLD THE ROUND WORK PIECE AND OTHER SHAPES.**

**INSPECTION DATA:**

- Parallelism of sliding surface to vise bottom slide-0.02mm
- Perpendicularity of jaw face on sliding the angle less 90 deg-0.05mm surface of vise body alide.
- Parallelism to vise bottom of top of rectangular test block- under clamped by two jaws.-0.03mm
- Parallelism between Jaw faces-0.02mm

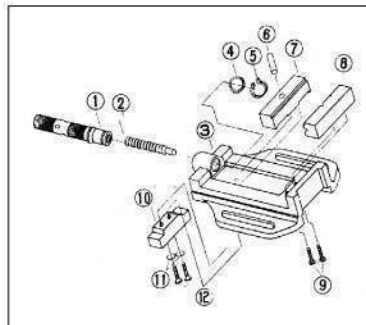


CODE No.	Width of Jaws	Opening Jaw	Depth of Jaw	Net Weight	PCS / CTN
4033-1013	82 mm (3-1/4")	79.4 mm (1-1/8")	25 mm (1")	3.6 kgs (7.9 Lbs)	6
4033-1014	104.8 mm (4-1/8")	98.7 mm (3-7/8")	31.75 mm (1-1/4")	5.6 kgs (12.3 Lbs)	4
4033-1015	130 mm (5-1/8")	120 mm (4-3/4")	38.1 mm (1-1/2")	8.2 kgs (18 Lbs)	3
4033-1023	82 mm (3-1/4")	79.4 mm (1-1/8")	25 mm (1")	3.6 kgs (7.9 Lbs)	6
4033-1024	104.8 mm (4-1/8")	98.7 mm (3-7/8")	31.75 mm (1-1/4")	5.6 kgs (12.3 Lbs)	4
4033-1025	130 mm (5-1/8")	120 mm (4-3/4")	38.1 mm (1-1/2")	8.2 kgs (18 Lbs)	3

## ASSEMBLE DRAWING (EXPLOSIVE DRAWING)

TAIWAN

- |                     |                          |
|---------------------|--------------------------|
| 1. Knurling handle  | 7. Set jaw.              |
| 2. Leadscrew bar    | 8. Prismatic jaw         |
| 3. Leadscrew setter | 9. Prisma setting bolts. |
| 4. Washer           | 10. Set block            |
| 5. Snap o-ring      | 11. Locking bolts        |
| 6. Lock pin         | 12. Washer               |



## DRILL PRESS VISE

TAIWAN

### ▶ 4033-1053~4033-1128



▲ **4033-1053/4033/1056**

- STANDARD TYPE With 2 Bolt Lug at eadside for setting on Drill press table.

▲ **4033-1063/4033/1066**

- Low Profile Drill Press vise. The base has 4-13 mm (1/2") shoulder slots for Quick easy positioning on Drill press tables.

▲ **4033-1063A/4033/1066A**

- Low profile Drill press vise. The Base has 4-13 mm (1/2") shoulder slots: one solid Round BAR under the Leadscrew to secure the HIGH ACCURACY.

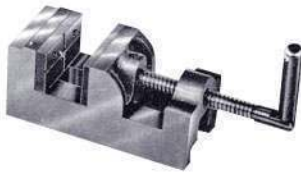
CODE No.	Width of Jaws	Jaw Opening	Depth of Jaws	Net Weight / Pc		PCS / CTN	CFT / CTN
				kgs.	Lbs.		
4033-1053	80 mm (3-1/8")	2-5/8"	1-1/16"	2.5	5.5	10	0.74
4033-1054	105 mm (4-1/8")	3-5/8"	1-3/16"	3.5	7.7	6	0.74
4033-1055	125 mm (5")	4-5/8"	1-3/8"	5.6	12.32	4	0.73
4033-1056	150 mm (6")	5-5/8"	1-1/2"	8.0	17.64	3	0.78
4033-1063	80 mm (3-1/8")	2-3/4"	1-1/16"	2.6	5.72	10	0.93
4033-1064	105 mm (4-1/8")	3-3/4"	1-3/16"	3.5	7.7	6	0.78
4033-1065	125 mm (5")	4-5/8"	1-3/8"	5.6	12.32	4	0.84
4033-1066	150 mm (6")	5-5/8"	1-1/2"	8	17.64	3	0.82
4033-1064A	105 mm (4-1/8")	3-3/4"	1-3/16"	3.5	7.7	6	0.72
4033-1065A	125 mm (5")	4-5/8"	1-3/8"	5.8	12.76	4	0.79
4033-1066A	150 mm (6")	5-5/8"	1-1/2"	8	17.64	3	1.03
4033-1063A	80 mm (3-1/8")	2-3/4"	1-1/16"	2.7	5.94	8	0.76
4033-1062AT	55 mm (2-3/16")	2"	1"	1.4	3.0	16	0.56
4033-1124	108 mm (4-1/4")	3-1/4"	1-3/8"	12.8	28.1	2	0.7
4033-1126	155 mm (6-1/8")	5"	2"	28	61.73	1	0.68
4033-1128	210 mm (8-1/4")	6-1/2"	2-1/2"	52	114.64	1	1.80



## GROUND DRILL PRESS VISES

TAIWAN

▶ 4033-1042P / 4033-1043P



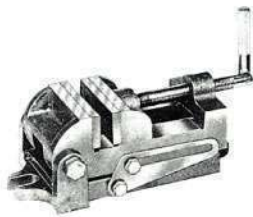
- Precision ground for squareness and parallelism to 0.01mm (0.0002")/per 25mm
- Body and main parts made of high grade gray iron, machined and ground 5 sides to assure accurate Ideal for drilling grinding, tapping, reaming etc.
- Available for vertical and horizontal positions.

CODE No.	Width of Jaws	Opening Jaw	Depth of Jaw	Net Weight	PCS / CTN
4033-1042P	63.5 mm (2-1/2")	50 mm (2")	35 mm (1-3/8")	2.6 kgs (5.72 Lbs)	8 pcs.
4033-1043P	89 mm (3-1/2")	87.3 mm (3-7/16")	36.5 mm (1-7/16")	3.8 kgs (8.36 Lbs)	6 pcs.

## ANGLE VISE

TAIWAN

▶ 4033-1042~4033-1044



- Body made by high grade cast iron, suited for drilling, tapping or raming operations.
- 2 Locking bolts on each sideplate insure rigid locking in all positions.
- Full 90 degree adjustment in horizontal and vertical postions. Bolt lugs at each end of base easily set onto the machine working table.

CODE No.	Width of Jaws	Opening Jaw	Depth of Jaw	Net Weight	PCS / CTN
4033-1042	63.5 mm (2-1/2")	70 mm (2-3/4")	35 mm (1-3/8")	3.3 kgs (7.26 Lbs)	8 pcs.
4033-1043	89 mm (3-1/2")	86 mm (2-3/8")	33.3 mm (1-5/16")	5.2 kgs (11.44 Lbs)	4 pcs.
4033-1044	114.3 mm (4-1/2")	100 mm (4")	41.2 mm (1-5/8")	8 kgs (17.64 Lbs)	3 pcs.

## ANGLE VISE WITH SWIVEL BASE:

TAIWAN

▶ 4033-1042A / 4033-1043A



- All feature like 4033-1042 to 4033-1044 angel vises but with swivel base only.

CODE No.	Width of Jaws	Opening Jaw	Depth of Jaw	Net Weight	PCS / CTN
4033-1042A	63.5 mm (2-1/2")	70 mm (2-3/4")	35 mm ( 1-3/8")	4.8 kgs (10.56 Lbs)	4 pcs.
4033-1043A	89 mm (3-1/2")	86 mm (3-3/8")	33.3 mm (1-5/16")	7.2 kgs (15.84 Lbs)	3 pcs.

## V TYPE ANGLE VISE

TAIWAN

▶ 4033-1013~4033-1014



- Angle vise on half circle turning base by dove tail groove with vernier. Sliding jaw on round bar.
- Smooth adjustment 0°~90° angular easy figure out best for tapping and drilling.

CODE No.	Size	Kgs	Lbs	PCS / CTN	CFT / CTN
4033-1013	3"	4.2	9.26	6	0.92
4033-1014	4"	6.2	13.89	4	0.87

## ALL STEEL VISE

TAIWAN

▶ 4033-4100~4033-4200



- Cast steel body.
- Replaceable jaw faces.
- Built in pipe jaws.
- Large anvil.
- 360° swivel base.

CODE No.	Size	Q'TY	N.W.	G.W.	Meas.
4033-4100	4"	1 PCS/CTN	7.5 kgs	8.0 kgs	0.40 CU.FT
4033-4125	5"	1 PCS/CTN	11 kgs	11.6 kgs	0.58 CU.FT
4033-4160	6"	1 PCS/CTN	14.5 kgs	15.3 kgs	0.78 CU.FT
4033-4200	8"	1 PCS/CTN	20.5 kgs	21.7 kgs	1.18 CU.FT

## MINI TYPE

TAIWAN

▶ 4033-1062



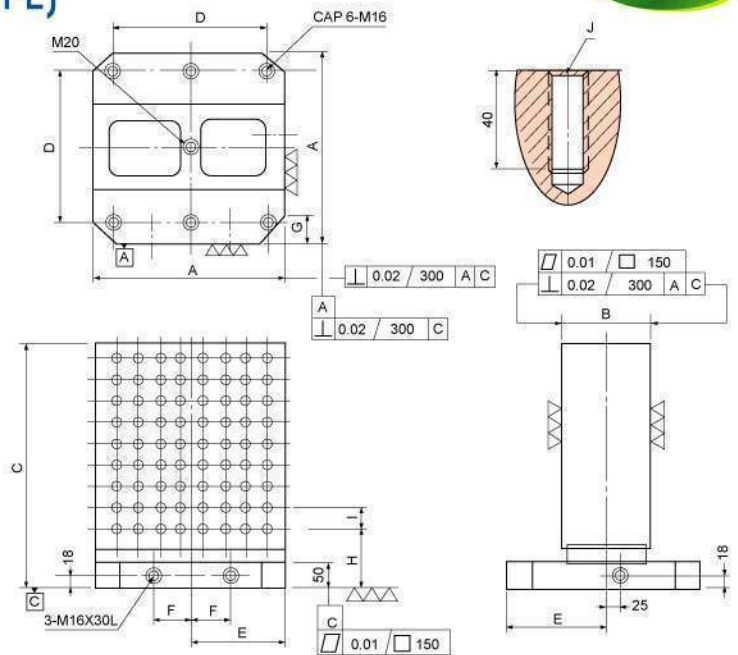
CODE No.	Width of Jaws	Opening Jaw	Depth of Jaw	Net Weight	PCS / CTN
4033-1062	2-3/16"	2"	1"	1.4 kgs (3 Lbs)	16 pc

## MC TOOLING BLOCKS (2 FACE TYPE)

► 0788-7002~0788-7208

**FEATURES:**

- Material: FCD-60 Ductile iron. (High tensile casting)
- Heat-treatment-Annealing.
- One piece casting of bed and column.



TAIWAN

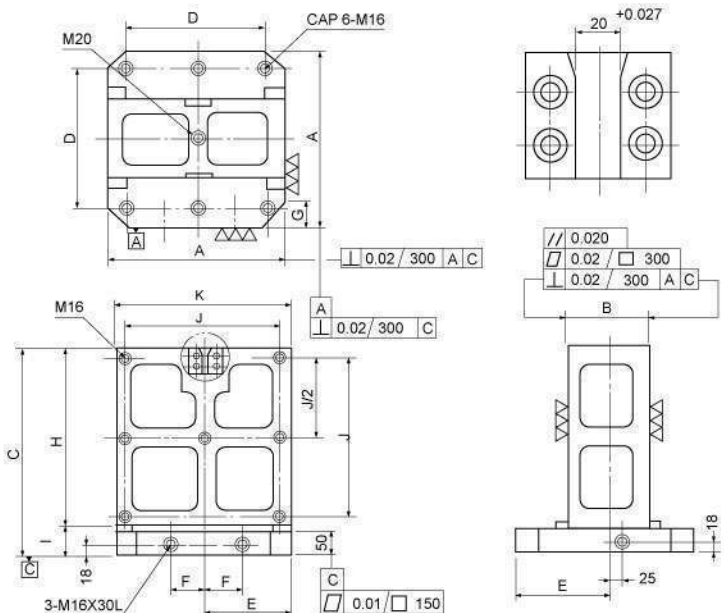
CODE No.	MODEL	A	B	C	D	E	F	G	H	I	J	N.W.
0788-7002	SJB-400×150×500U	400	150	500	320	200	55	50	125	50	M12-7 x 8 x 2	206 kg
0788-7004	SJB-500×200×600U	500	200	600	400	250	75	60	125	50	M12-9 x 10 x 2	320 kg
0788-7006	SJB-630×250×700U	630	250	700	500	315	100	65	125	50	M12-11 x 12 x 2	568 kg
0788-7008	SJB-800×300×800U	800	300	800	640	400	135	80	125	50	M12-15 x 14 x 2	762 kg
0788-7202	SJB-400×150×500V	400	150	500	320	200	55	50	125	50	M16-7 x 8 x 2	204 kg
0788-7204	SJB-500×200×600V	500	200	600	400	250	75	60	125	50	M16-9 x 10 x 2	315 kg
0788-7206	SJB-630×250×700V	630	250	700	500	315	100	65	125	50	M16-11 x 12 x 2	562 kg
0788-7208	SJB-800×300×800V	800	300	800	640	400	135	80	125	50	M16-15 x 14 x 2	755 kg

## MC TOOLING BLOCKS (2 FACE FRAME BASE TYPE)

► 0788-7402~0788-7410

**FEATURES:**

- Material: FCD-60 Ductile iron. (High tensile casting)
- Heat-treatment-Annealing.
- One piece casting of bed and column.



TAIWAN

CODE No.	MODEL	A	B	C	D	E	F	G	H	I	J	K	N.W.
0788-7402	SJB-400×100×470W	400	100	470	320	200	55	50	400	70	350	400	98 kg
0788-7404	SJB-500×150×570W	500	150	570	400	250	75	60	500	70	450	500	215 kg
0788-7406	SJB-630×200×700W	630	200	700	500	315	100	65	630	70	580	630	270 kg
0788-7408	SJB-630×250×700W	630	250	700	500	315	100	65	630	70	580	800	450 kg
0788-7410	SJB-800×250×800W	800	250	800	640	400	135	80	800	70	750	800	590 kg

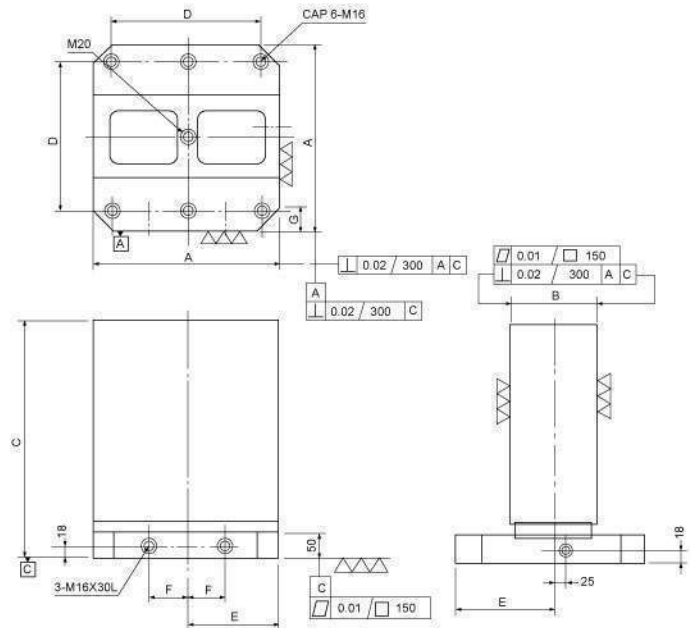
## MC TOOLING BLOCKS (2 FACE TYPE)



▶ 0788-6402~0788-6408

**FEATURES:**

- Material: FCD-60 Ductile iron. (High tensile casting)
- Heat-treatment-Annealing.
- One piece casting of bed and column.



CODE No.	MODEL	A	B	C	D	E	F	G	N.W.
0788-6402	SJB-400 × 150 × 500P	400	150	500	320	200	55	50	218 kg
0788-6404	SJB-500 × 200 × 600P	500	200	600	400	250	75	60	320 kg
0788-6406	SJB-630 × 250 × 700P	630	250	700	500	315	100	65	578 kg
0788-6408	SJB-800 × 300 × 800P	800	300	800	640	400	135	80	776 kg

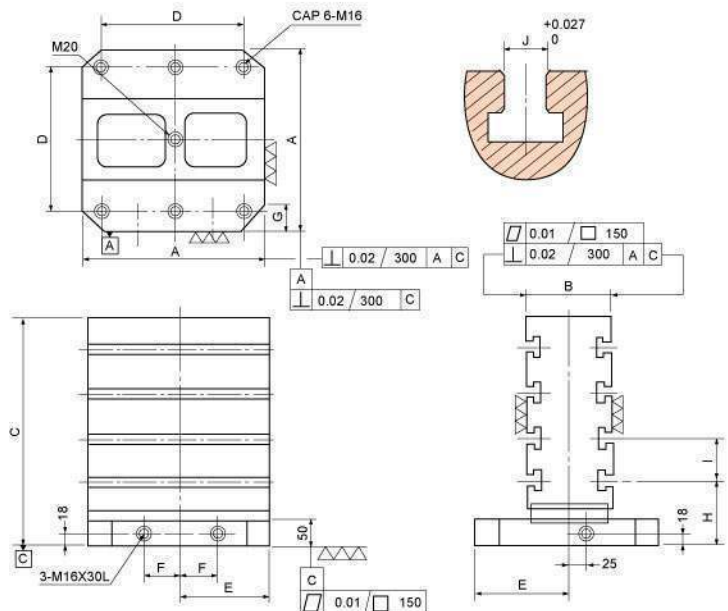
## MC TOOLING BLOCKS (4 FACE TYPE)



▶ 0788-6602~0788-6808

**FEATURES:**

- Material: FCD-60 Ductile iron. (High tensile casting)
- Heat-treatment-Annealing.
- One piece casting of bed and column.



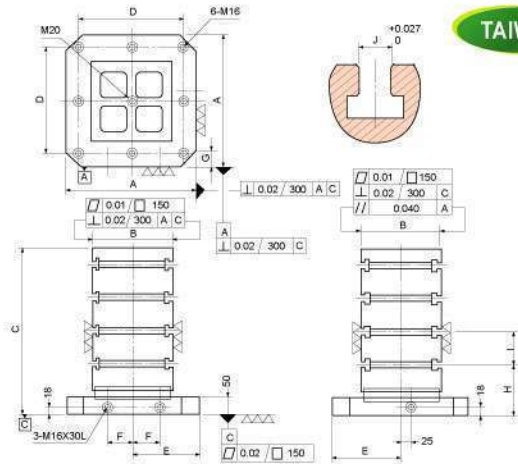
CODE No.	MODEL	A	B	C	D	E	F	G	H	I	J	N.W.
0788-6602	SJB-400 × 150 × 500R	400	150	500	320	200	55	50	100	100 x 4	14	204 kg
0788-6604	SJB-500 × 200 × 600R	500	200	600	400	250	75	60	100	100 x 5	14	312 kg
0788-6606	SJB-630 × 250 × 700R	630	250	700	500	315	100	65	150	125 x 5	14	560 kg
0788-6608	SJB-800 × 300 × 800R	800	300	800	640	400	135	80	150	150 x 5	14	752 kg
0788-6802	SJB-400 × 150 × 500S	400	150	500	320	200	55	50	100	100 x 4	18	198 kg
0788-6804	SJB-500 × 200 × 600S	500	200	600	400	250	75	60	100	100 x 5	18	304 kg
0788-6806	SJB-630 × 250 × 700S	630	250	700	500	315	100	65	150	125 x 5	18	550 kg
0788-6808	SJB-800 × 300 × 800S	800	300	800	640	400	135	80	150	150 x 5	18	740 kg

## MC TOOLING BLOCKS (4 FACE TYPE-T-SLOTS)

▶ 0788-4002~0788-4214

### FEATURES:

- Material: FCD-60 Ductile iron. (High tensile casting)
- Heat-treatment-Annealing.
- One piece casting of bed and column.



TAIWAN

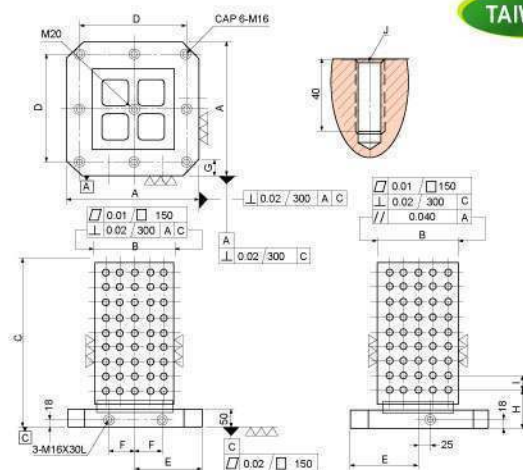
CODE No.	MODEL	A	B	C	D	E	F	G	G	I	J	N.W.
0788-4002	SJB-400×250×500T	400	250	500	320	200	55	50	100	100 x 4	14	177 kg
0788-4004	SJB-500×300×600T	500	300	600	400	250	75	60	100	100 x 5	14	290 kg
0788-4006	SJB-500×350×550T	500	350	550	400	250	75	60	150	100 x 4	14	291 kg
0788-4008	SJB-630×350×700T	630	350	700	500	315	100	65	150	125 x 5	14	428 kg
0788-4010	SJB-630×400×700T	630	400	700	500	315	100	65	150	125 x 5	14	470 kg
0788-4012	SJB-630×500×700T	630	500	700	500	315	100	65	150	125 x 5	14	560 kg
0788-4014	SJB-800×550×850T	800	550	850	640	400	135	80	150	150 x 5	14	770 kg
0788-4202	SJB-400×250×500L	400	250	500	320	200	55	50	100	100 x 4	18	174 kg
0788-4204	SJB-500×300×600L	500	300	600	400	250	75	60	100	100 x 5	18	287 kg
0788-4206	SJB-500×350×550L	500	350	550	400	250	75	60	150	100 x 4	18	286 kg
0788-4208	SJB-630×350×700L	630	350	700	500	315	100	65	150	125 x 5	18	423 kg
0788-4210	SJB-630×400×700L	630	400	700	500	315	100	65	150	125 x 5	18	465 kg
0788-4212	SJB-630×500×700L	630	500	700	500	315	100	65	150	125 x 5	18	552 kg
0788-4214	SJB-800×550×850L	800	550	850	640	400	135	80	150	150 x 5	18	764 kg

## MC TOOLING BLOCKS (4 FACE TYPE-DRILLING & TAPPING)

▶ 0788-6002~0788-6214

### FEATURES:

- Material: FCD-60 Ductile iron. (High tensile casting)
- Heat-treatment-Annealing.
- One piece casting of bed and column.



TAIWAN

CODE No.	MODEL	A	B	C	D	E	F	G	H	I	J	N.W.
0788-6002	SJB-400×250×500M	400	250	500	320	200	55	50	125	50	M12-4 x 8 x 4	193 kg
0788-6004	SJB-500×300×600M	500	300	600	400	250	75	60	125	50	M12-5 x 10 x 4	294 kg
0788-6006	SJB-500×350×550M	500	350	550	400	250	75	60	125	50	M12-6 x 9 x 4	312 kg
0788-6008	SJB-630×350×700M	630	350	700	500	315	100	65	125	50	M12-6 x 12 x 4	438 kg
0788-6010	SJB-630×400×700M	630	400	700	500	315	100	65	125	50	M12-7 x 12 x 4	460 kg
0788-6012	SJB-630×500×700M	630	500	700	500	315	100	65	125	50	M12-9 x 12 x 4	570 kg
0788-6014	SJB-800×550×850M	800	550	850	640	400	135	80	125	50	M12-10 x 15 x 4	780 kg
0788-6202	SJB-400×250×500H	400	250	500	320	200	55	50	125	50	M16-4 x 8 x 4	189 kg
0788-6204	SJB-500×300×600H	500	300	600	400	250	75	60	125	50	M16-5 x 10 x 4	290 kg
0788-6206	SJB-500×350×550H	500	350	550	400	250	75	60	125	50	M16-6 x 9 x 4	308 kg
0788-6208	SJB-630×350×700H	630	350	700	500	315	100	65	125	50	M16-6 x 12 x 4	433 kg
0788-6210	SJB-630×400×700H	630	400	700	500	315	100	65	125	50	M16-7 x 12 x 4	455 kg
0788-6212	SJB-630×500×700H	630	500	700	500	315	100	65	125	50	M16-9 x 12 x 4	565 kg
0788-6214	SJB-800×550×850H	800	550	850	640	400	135	80	125	50	M16-10 x 15 x 4	776 kg

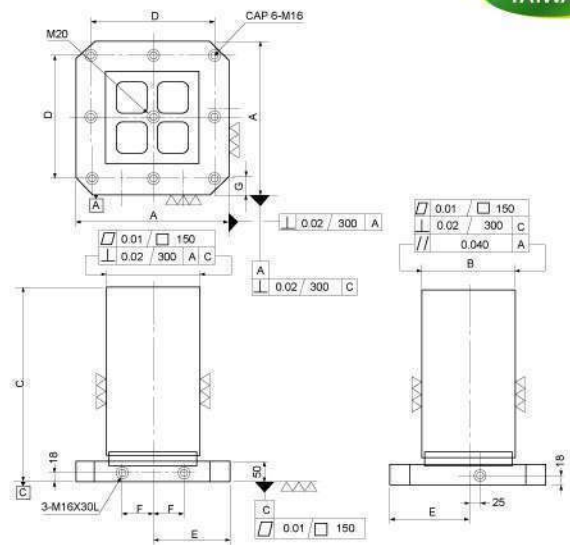
## MC TOOLING BLOCKS (4 FACE TYPE)

TAIWAN

► 0788-2002~0788-2014

### FEATURES:

- Material: FCD-60 Ductile iron. (High tensile casting)
- Heat-treatment-Annealing.
- One piece casting of bed and column.



CODE No.	MODEL	A	B	C	D	E	F	G	N.W.
0788-2002	SJB-400×250×500B	400	250	500	320	200	55	50	195 kg
0788-2004	SJB-500×300×600B	500	300	600	400	250	75	60	315 kg
0788-2006	SJB-500×350×550B	500	350	550	400	250	75	60	317 kg
0788-2008	SJB-630×350×700B	630	350	700	500	315	100	65	453 kg
0788-2010	SJB-630×400×700B	630	400	700	500	315	100	65	500 kg
0788-2012	SJB-630×500×700B	630	500	700	500	315	100	65	595 kg
0788-2014	SJB-800×550×850B	800	550	850	640	400	135	80	811 kg

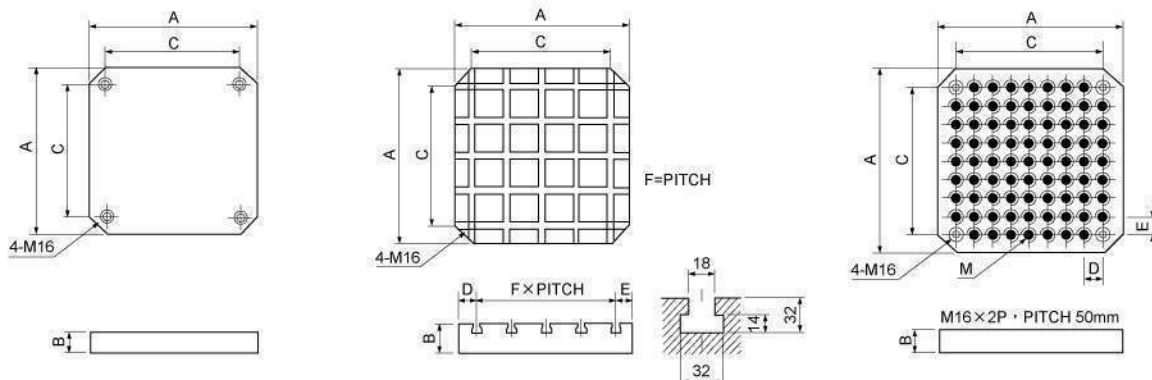
## MC SUB TABLES

TAIWAN

► 0787-6002~0788-0018

### FEATURES:

- Both ground & paralleled within 0.010 / 500 mm.
- Material:FCD-60 Ductile iron. (High tensile casting)
- Annealing.
- Please fill D.E.F.K.PITCH dimension yourself.



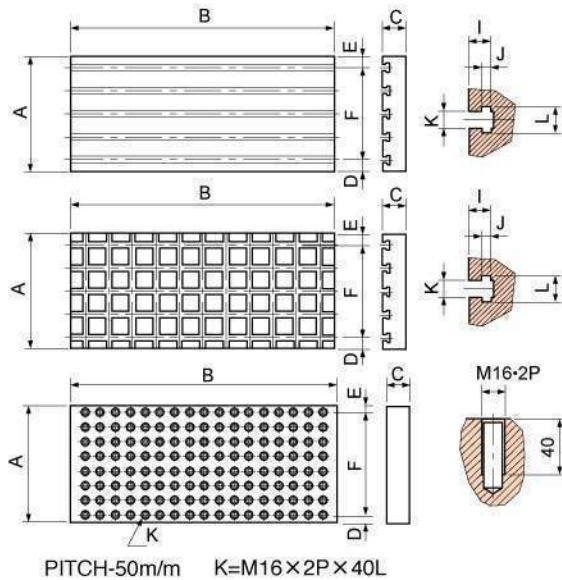
CODE No.	MODEL	A	B	C	D	F	K	CODE No.	MODEL	A	B	C	D	E	F	K
0787-6002	SP-300×300×40	300	40	240				0788-0002	SM-300×300×40	300	40	240	50	50		
0787-6004	SP-400×400×40	400	40	300				0788-0004	SM-400×400×40	400	40	320	50	50		
0787-6006	SP-500×500×40	500	40	400				0788-0006	SM-500×500×40	500	40	400	50	50		
0787-6008	SP-600×600×45	600	45	500				0788-0008	SM-600×600×45	600	45	500	50	50		
0787-6010	SP-630×630×40	630	40	500				0788-0010	SM-630×630×40	630	40	500	50	50		
0787-8002	SL-400×400×70	400	70	300	50	100	18	0788-0012	SM-400×400×70	400	70	320	50	50		
0787-8004	SL-500×500×70	500	70	400	50	100	18	0788-0014	SM-500×500×70	500	70	400	50	50		
0787-8006	SL-630×630×70	630	70	500	65	100	18	0788-0016	SM-630×630×70	630	70	500	50	50		
0787-8008	SL-800×800×70	800	70	700	50	100	18	0788-0018	SM-800×800×70	800	70	700	50	50		

## MC SUB TABLES

▶ 0787-0002~0787-4052

### FEATURES:

- Both ground & paralleled within 0.010 / 500 mm
- Material: FCD-60 Ductile iron. (High tensile casting)
- Annealing.
- Please fill D.E.F.K.PITCH dimension yourself.



### MODEL

- ▲ST-300×600×70, 500×1000×75, 550×1200×75, 700×1700×80
- ▲ST-350×800×75, 510×850×75, 600×1200×75, 800×2300×85
- ▲ST-400×950×75, 510×1000×75, 600×1500×80, 850×2100×85
- ▲ST-410×900×75, 510×1200×75, 650×1600×80, 850×2300×85
- ▲ST-450×900×75, 510×1300×75, 650×1700×80, 900×2400×85

### MODEL

- ▲SC-300×600×70, 500×1000×75, 550×1200×75, 700×1700×80
- ▲SC-350×800×75, 510×850×75, 600×1200×75, 800×2300×85
- ▲SC-400×950×75, 510×1000×75, 600×1500×80, 850×2100×85
- ▲SC-410×900×75, 510×1200×75, 650×1600×80, 850×2300×85
- ▲SC-450×900×75, 510×1300×75, 650×1700×80, 900×2400×85

### MODEL

- ▲SH-300×600×70, 500×1000×75, 550×1200×75, 700×1700×80
- ▲SH-350×800×75, 510×850×75, 600×1200×75, 800×2300×85
- ▲SH-400×950×75, 510×1000×75, 600×1500×80, 850×2100×85
- ▲SH-410×900×75, 510×1200×75, 650×1600×80, 850×2300×85
- ▲SH-450×900×75, 510×1300×75, 650×1700×80, 900×2400×85
- ▲SH-340×510×30, 340×660×30, 405×660×35, 405×780×35
- ▲SH-495×720×40, 495×940×40

CODE No.	MODEL	A	B	C	D	E	F	K	CODE No.	MODEL	A	B	C	D	E	F	K
0787-0002	ST-300×600×70	300	600	70					0787-2028	SC-650×1600×80	650	1600	80				
0787-0004	ST-350×800×75	350	800	75					0787-2030	SC-650×1700×80	650	1700	80				
0787-0006	ST-400×950×75	400	950	75					0787-2032	SC-700×1700×80	700	1700	80				
0787-0008	ST-410×900×75	410	900	75					0787-2034	SC-800×2300×85	800	2300	85				
0787-0010	ST-450×900×75	450	900	75					0787-2036	SC-850×2100×85	850	2100	85				
0787-0012	ST-500×1000×75	500	1000	75					0787-2038	SC-850×2300×85	850	2300	85				
0787-0014	ST-510×850×75	510	850	75					0787-2040	SC-900×2400×85	900	2400	85				
0787-0016	ST-510×1000×75	510	1000	75					0787-4002	SH-300×600×70	300	600	70				
0787-0018	ST-510×1200×75	510	1200	75					0787-4004	SH-350×800×75	350	800	75				
0787-0020	ST-510×1300×75	510	1300	75					0787-4006	SH-400×950×75	400	950	75				
0787-0022	ST-550×1200×75	550	1200	75					0787-4008	SH-410×900×75	410	900	75				
0787-0024	ST-600×1200×75	600	1200	75					0787-4010	SH-450×900×75	450	900	75				
0787-0026	ST-600×1500×80	600	1500	80					0787-4012	SH-500×1000×75	500	1000	75				
0787-0028	ST-650×1600×80	650	1600	80					0787-4014	SH-510×850×75	510	850	75				
0787-0030	ST-650×1700×80	650	1700	80					0787-4016	SH-510×1000×75	510	1000	75				
0787-0032	ST-700×1700×80	700	1700	80					0787-4018	SH-510×1200×75	510	1200	75				
0787-0034	ST-800×2300×85	800	2300	85					0787-4020	SH-510×1300×75	510	1300	75				
0787-0036	ST-850×2100×85	850	2100	85					0787-4022	SH-550×1200×75	550	1200	75				
0787-0038	ST-850×2300×85	850	2300	85					0787-4024	SH-600×1200×75	600	1200	75				
0787-0040	ST-900×2400×85	900	2400	85					0787-4026	SH-600×1500×80	600	1500	80				
0787-2002	SC-300×600×70	300	600	70					0787-4028	SH-650×1600×80	650	1600	80				
0787-2004	SC-350×800×75	350	800	75					0787-4030	SH-650×1700×80	650	1700	80				
0787-2006	SC-400×950×75	400	950	75					0787-4032	SH-700×1700×80	700	1700	80				
0787-2008	SC-410×900×75	410	900	75					0787-4034	SH-800×2300×85	800	2300	85				
0787-2010	SC-450×900×75	450	900	75					0787-4036	SH-850×2100×85	850	2100	85				
0787-2012	SC-500×1000×75	500	1000	75					0787-4038	SH-850×2300×85	850	2300	85				
0787-2014	SC-510×850×75	510	850	75					0787-4040	SH-900×2400×85	900	2400	85				
0787-2016	SC-510×1000×75	510	1000	75					0787-4042	SH-340×510×30	340	510	30				
0787-2018	SC-510×1200×75	510	1200	75					0787-4044	SH-340×660×30	340	660	30				
0787-2020	SC-510×1300×75	510	1300	75					0787-4046	SH-405×600×35	405	600	35				
0787-2022	SC-550×1200×75	550	1200	75					0787-4048	SH-405×780×35	405	780	35				
0787-2024	SC-600×1200×75	600	1200	75					0787-4050	SH-495×720×40	495	720	40				
0787-2026	SC-600×1500×80	600	1500	80					0787-4052	SH-495×940×40	495	940	40				

## DESIGNER AND MAKER OF SCREW CLAMP SUPPORT MACHINES



### ▶ 5159-0000



#### NEW PATENTED CLAMPING KIT IN PLASTIC BLOW CASE

- This set suited all CNC Machines, heavy duty plano mills, and other Heavy duty machine with T-slot tables and base.
- Each components are made of high quality forged steel, machined and hardened.

T Bolt	4 pcs. Each of 80 mm x 5/8" x 11T and 90 mm x 5/8" x 11T
Clamping Stud	4 pcs. Each length-75 / 100 / 125 / 150 / 175 / 200 mm
Plain Clamps	2 pcs. Each of 150 x 36 x 27 and 200 x 40 x 30 mm (1 x w x h)
Plain Clamps with screw support	2 pcs. Each
Entension Screw Support	2 pcs. Each of 90-100 / 100-120 / 120-160 mm
Center Block	2 pc. Of 44 mm Dia. x 24 mm
Flanged Nut	6 pcs. 35 mm Dia. x 22 mm-height x 5/8" x 11T ID.
Bolt Coupling	4 pc. Of mm leigth x ID-5/8" x 11T
TC Nut	2 pcs./each of 15.8 mm x 2 mm Dia. x 54 mm
Plastic fitted box	17.8 mm x 22 mm Dia. x 58 mm length

### ▶ 5159-1668~5159-1689



▲ 5159-1668~1688

▲ 5159-1608~1689

CODE No.	A	B	C	D
5159-1668	25 mm	9 mm	80 mm	5/8 X 11w
5159-1688	28 mm	10 mm	90 mm	5/8 X 11w

CODE No.	A	B	C	D	E	F
5159-1608	54 mm	9 mm	25 mm	15.8Ø	22Ø	5/8 X 11w
5159-1689	58 mm	10 mm	28 mm	22.0Ø	22Ø	5/8 X 11w

### ▶ 5159-1609~5159-1621



▲ 5159-1609

▲ 5159-1620

▲ 5159-1621

CODE No.	A	C
5159-1609	5/8 X 11w	40 mm

CODE No.	A	B	C
5159-1620	35Ø	22 mm	5/8 x 11w

CODE No.	A	C
5159-1621	24 mm	44Ø

### ▶ 5159-1604~5159-1606



▲ 5159-1604~1607

▲ 5159-1605

CODE No.	A	B	C	D
5159-1604	128 mm	35 mm	24 mm	35~75 mm
5159-1607	54 mm	26 mm	70 mm	3/4 x 10w

CODE No.	A	B	C
5159-1605	150 mm	36 mm	27 mm
5159-1606	200 mm	40 mm	30 mm

### ▶ 5159-1601~5159-1628



▲ 5159-1601~1603

▲ 5159-1623~1628

CODE No.	A	CODE No.	A
5159-1601	80~100 mm	5159-1623	75 mm
5159-1602	100~120 mm	5159-1624	100 mm
5159-1603	120~160 mm	5159-1625	125 mm
		5159-1626	150 mm
		5159-1627	175 mm
		5159-1628	200 mm

## CLAMPING KITS ▶ 5250-0001~5151-0022



- Compatible with all milling machines, drilling machines and T-Slot tables and base.
- Made of selected steel, hardened and black oxideized finish.

### CONTAINS

#### 58 Pcs. Deluxe Clamping Kit.

Studs	24 pcs. ( 4 of each length-3, 4, 5, 6, 7 & 8 inches in length)
T- Nuts	6 pcs
Flanged Nuts	6 pcs
Coupling Nuts	4 pcs
Step Block	12 pcs
Step Clamp	6 pcs
Plastic Hanger tray	Steel Plate hanger tray available Available colors:red,blue,green and silver



Net weight is available up on request.

### INCH SET

CODE No.	Slot Size	Stud Size
5250-0001	3/8"	5/16" x 18
5250-0002	7/16 "	3/8" x 16
5250-0003	1/2"	3/8 " x 16
5250-0004	9/16"	3/8 " x 16
5250-0005	9/16"	1/2" x 12
5250-0006	5/8 "	1/2" x 12
5250-0007	11/16"	1/2" x 12
5250-0008	11/16"	5/8" x 11
5250-0009	3/4"	5/8" x 11
5250-0010	13/16"	5/8" x 11
5250-0011	13/16"	3/4" x 10
5250-0012	7/8"	3/4" x 10
5250-0013	1"	3/4" x 10

### METRIC SETS

CODE No.	Stud size	T-Slot
5151-0010	M10	10 mm
5151-0012	M12	12 mm
5151-0014	M14	14 mm
5151-0016	M16	16 mm
5151-0018	M18	18 mm
5151-0020	M20	20 mm
5151-0022	M22	22 mm

## T-NUTS & STUD SETS ▶ 5151-0001~5151-0009



### CONTAINS

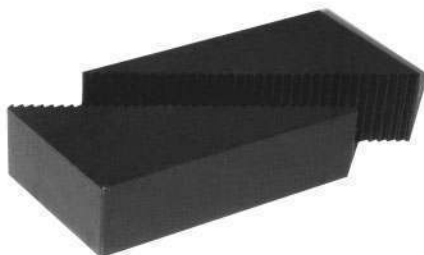
Stud	4 of each length (3, 4, 5, 6 & 8 inches)
T-Nuts	6 pcs
Coupling Nuts	4 pcs.
Flanged Nuts	4 pcs.
Plastic Handy Holder	1 pcs with optional wooden holder



CODE No.	Slot Size	T- Nut Size	Stud Size
5151-0001	3/8"	375-TN	5/8"-18
5151-0002	7/16"	437-TN	3/8"-16
5151-0003	1/2"	500-TN	3/8"-16
5151-0004	9/16"	562-TN	1/2"-13
5151-0005	5/8"	625-TN	1/2"-13

CODE No.	Slot Size	T- Nut Size	Stud Size
5151-0006	11/16"	687-TN	5/8"-11
5151-0007	3/4"	750-TN	5/8"-11
5151-0008	13/16"	812-TN	3/4"-10
5151-0009	7/8"	875-TN	3/4"-10

## STEP BLOCK ▶ 5152-0001~5152-0012



### HEAT TREATED STEEL, BLACK OXIDE FINISH.

CODE No.	Block Width	Capacity
5152-0001	1"	1-1/2" to 1-3/4"
5152-0002	1"	1-3/4" to 2-1/2"
5152-0003	1"	3-7/8" to 6"
5152-0004	1-1/4"	1-1/2" to 1-3/4"
5152-0005	1-1/4"	1-3/4" to 2-1/2"
5152-0006	1-1/4"	3-7/8" to 6"
5152-0007	1-1/2"	2-1/2" to 3-3/4"
5152-0008	1-1/2"	3-7/8" to 6"
5152-0009	1-1/2"	5-1/2" to 9"
5152-0010	2"	2-1/2" to 3-3/4"
5152-0011	2"	3-7/8" to 6"
5152-0012	2"	5-1/2" to 9"



## CLAMPING STUDS

▶ 5153-0001~5153-0086

▶ 5154-0001~5154-0028



### INCH SIZE

CODE No.	Thread	Total Length	Thread Length	CODE No.	Thread	Total Length	Thread Length
5153-0001	5/16"-18	3"	33 mm	5153-0044	5/8"-11	14"	45 mm
5153-0002	5/16"-18	4"	45 mm	5153-0045	5/8"-11	16"	45 mm
5153-0003	5/16"-18	5"	45 mm	5153-0046	5/8"-11	18"	45 mm
5153-0004	5/16"-18	6"	45 mm	5153-0047	5/8"-11	20"	45 mm
5153-0005	5/16"-18	7"	45 mm	5153-0048	3/4"-10	3"	33 mm
5153-0006	5/16"-18	8"	45 mm	5153-0049	3/4"-10	4"	45 mm
5153-0007	3/8"-16	3"	33 mm	5153-0050	3/4"-10	5"	45 mm
5153-0008	3/8"-16	4"	45 mm	5153-0051	3/4"-10	6"	45 mm
5153-0009	3/8"-16	5"	45 mm	5153-0052	3/4"-10	7"	45 mm
5153-0010	3/8"-16	6"	45 mm	5153-0053	3/4"-10	8"	45 mm
5153-0011	3/8"-16	7"	45 mm	5153-0054	3/4"-10	9"	45 mm
5153-0012	3/8"-16	8"	45 mm	5153-0055	3/4"-10	10"	45 mm
5153-0013	1/2"-12	3"	33 mm	5153-0056	3/4"-10	12"	45 mm
5153-0014	1/2"-12	4"	45 mm	5153-0057	3/4"-10	14"	45 mm
5153-0015	1/2"-12	5"	45 mm	5153-0058	3/4"-10	16"	45 mm
5153-0016	1/2"-12	6"	45 mm	5153-0059	3/4"-10	18"	45 mm
5153-0017	1/2"-12	7"	45 mm	5153-0060	3/4"-10	20"	45 mm
5153-0018	1/2"-12	8"	45 mm	5153-0061	7/8"-9	3"	33 mm
5153-0019	1/2"-12	9"	45 mm	5153-0062	7/8"-9	4"	45 mm
5153-0020	1/2"-12	10"	45 mm	5153-0063	7/8"-9	5"	45 mm
5153-0021	1/2"-12	12"	45 mm	5153-0064	7/8"-9	6"	45 mm
5153-0022	1/2"-12	14"	45 mm	5153-0065	7/8"-9	7"	45 mm
5153-0023	1/2"-12	16"	45 mm	5153-0066	7/8"-9	8"	45 mm
5153-0024	1/2"-13	3"	33 mm	5153-0067	7/8"-9	9"	45 mm
5153-0025	1/2"-13	4"	45 mm	5153-0068	7/8"-9	10"	45 mm
5153-0026	1/2"-13	5"	45 mm	5153-0069	7/8"-9	12"	45 mm
5153-0027	1/2"-13	6"	45 mm	5153-0070	7/8"-9	14"	45 mm
5153-0028	1/2"-13	7"	45 mm	5153-0071	7/8"-9	16"	45 mm
5153-0029	1/2"-13	8"	45 mm	5153-0072	7/8"-9	18"	45 mm
5153-0030	1/2"-13	9"	45 mm	5153-0073	7/8"-9	20"	45 mm
5153-0031	1/2"-13	10"	45 mm	5153-0074	1"-8	3"	33 mm
5153-0032	1/2"-13	12"	45 mm	5153-0075	1"-8	4"	45 mm
5153-0033	1/2"-13	14"	45 mm	5153-0076	1"-8	5"	45 mm
5153-0034	1/2"-13	16"	45 mm	5153-0077	1"-8	6"	45 mm
5153-0035	5/8"-11	3"	33 mm	5153-0078	1"-8	7"	45 mm
5153-0036	5/8"-11	4"	45 mm	5153-0079	1"-8	8"	45 mm
5153-0037	5/8"-11	5"	45 mm	5153-0080	1"-8	9"	45 mm
5153-0038	5/8"-11	6"	45 mm	5153-0081	1"-8	10"	45 mm
5153-0039	5/8"-11	7"	45 mm	5153-0082	1"-8	12"	45 mm
5153-0040	5/8"-11	8"	45 mm	5153-0083	1"-8	14"	45 mm
5153-0041	5/8"-11	9"	45 mm	5153-0084	1"-8	16"	45 mm
5153-0042	5/8"-11	10"	45 mm	5153-0085	1"-8	18"	45 mm
5153-0043	5/8"-11	12"	45 mm	5153-0086	1"-8	20"	45 mm

### METRIC SIZE

CODE No.	Thread	Total Length	Thread Length	CODE No.	Thread	Total Length	Thread Length
5154-0001	M8 x 1.25P	76 mm	33 mm	5154-0015	M12 x 1.75P	125 mm	45 mm
5154-0002	M8 x 1.25P	100 mm	45 mm	5154-0016	M12 x 1.75P	152 mm	45 mm
5154-0003	M8 x 1.25P	125 mm	45 mm	5154-0017	M12 x 1.75P	178 mm	45 mm
5154-0004	M8 x 1.25P	152 mm	45 mm	5154-0018	M12 x 1.75P	200 mm	45 mm
5154-0005	M8 x 1.25P	178 mm	45 mm	5154-0019	M12 x 1.75P	228 mm	45 mm
5154-0006	M8 x 1.25P	200 mm	45 mm	5154-0020	M12 x 1.75P	250 mm	45 mm
5154-0007	M10 x 1.5P	76 mm	33 mm	5154-0021	M12 x 1.75P	300 mm	45 mm
5154-0008	M10 x 1.5P	100 mm	45 mm	5154-0022	M12 x 1.75P	355 mm	45 mm
5154-0009	M10 x 1.5P	125 mm	45 mm	5154-0023	M12 x 1.75P	406 mm	45 mm
5154-0010	M10 x 1.5P	152 mm	45 mm	5154-0024	M14 x 2.0P	76 mm	33 mm
5154-0011	M10 x 1.5P	178 mm	45 mm	5154-0025	M14 x 2.0P	100 mm	45 mm
5154-0012	M10 x 1.5P	200 mm	45 mm	5154-0026	M14 x 2.0P	125 mm	45 mm
5154-0013	M12 x 1.75P	76 mm	33 mm	5154-0027	M14 x 2.0P	152 mm	45 mm
5154-0014	M12 x 1.75P	100 mm	45 mm	5154-0028	M14 x 2.0P	178 mm	45 mm

## CLAMPING STUDS

TAIWAN

▶ 5154-0029~5154-0086

### METRIC SIZE

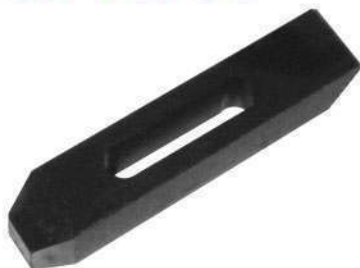
CODE No.	Thread	Total Length	Thread Length
5154-0029	M14 x 2.0P	200 mm	45 mm
5154-0030	M14 x 2.0P	228 mm	45 mm
5154-0031	M14 x 2.0P	250 mm	45 mm
5154-0032	M14 x 2.0P	300 mm	45 mm
5154-0033	M14 x 2.0P	355 mm	45 mm
5154-0034	M14 x 2.0P	406 mm	45 mm
5154-0035	M16 x 2.0P	76 mm	33 mm
5154-0036	M16 x 2.0P	100 mm	45 mm
5154-0037	M16 x 2.0P	125 mm	45 mm
5154-0038	M16 x 2.0P	152 mm	45 mm
5154-0039	M16 x 2.0P	178 mm	45 mm
5154-0040	M16 x 2.0P	200 mm	45 mm
5154-0041	M16 x 2.0P	230 mm	45 mm
5154-0042	M16 x 2.0P	254 mm	45 mm
5154-0043	M16 x 2.0P	305 mm	45 mm
5154-0044	M16 x 2.0P	356 mm	45 mm
5154-0045	M16 x 2.0P	407 mm	45 mm
5154-0046	M16 x 2.0P	458 mm	45 mm
5154-0047	M16 x 2.0P	508 mm	45 mm
5154-0048	M18 x 2.5P	76 mm	33 mm
5154-0049	M18 x 2.5P	100 mm	45 mm
5154-0050	M18 x 2.5P	125 mm	45 mm
5154-0051	M18 x 2.5P	152 mm	45 mm
5154-0052	M18 x 2.5P	178 mm	45 mm
5154-0053	M18 x 2.5P	200 mm	45 mm
5154-0054	M18 x 2.5P	228 mm	45 mm
5154-0055	M18 x 2.5P	250 mm	45 mm
5154-0056	M18 x 2.5P	300 mm	45 mm
5154-0057	M18 x 2.5P	355 mm	45 mm

CODE No.	Thread	Total Length	Thread Length
5154-0058	M18 x 2.5P	407 mm	45 mm
5154-0059	M18 x 2.5P	458 mm	45 mm
5154-0060	M18 x 2.5P	508 mm	45 mm
5154-0061	M20 x 2.5P	76 mm	33 mm
5154-0062	M20 x 2.5P	100 mm	45 mm
5154-0063	M20 x 2.5P	125 mm	45 mm
5154-0064	M20 x 2.5P	152 mm	45 mm
5154-0065	M20 x 2.5P	178 mm	45 mm
5154-0066	M20 x 2.5P	200 mm	45 mm
5154-0067	M20 x 2.5P	228 mm	45 mm
5154-0068	M20 x 2.5P	250 mm	45 mm
5154-0069	M20 x 2.5P	300 mm	45 mm
5154-0070	M20 x 2.5P	355 mm	45 mm
5154-0071	M20 x 2.5P	406 mm	45 mm
5154-0072	M20 x 2.5P	458 mm	45 mm
5154-0073	M20 x 2.5P	508 mm	45 mm
5154-0074	M24 x 3.0P	76 mm	33 mm
5154-0075	M24 x 3.0P	100 mm	45 mm
5154-0076	M24 x 3.0P	125 mm	45 mm
5154-0077	M24 x 3.0P	152 mm	45 mm
5154-0078	M24 x 3.0P	178 mm	45 mm
5154-0079	M24 x 3.0P	200 mm	45 mm
5154-0080	M24 x 3.0P	228 mm	45 mm
5154-0081	M24 x 3.0P	254 mm	45 mm
5154-0082	M24 x 3.0P	300 mm	45 mm
5154-0083	M24 x 3.0P	355 mm	45 mm
5154-0084	M24 x 3.0P	406 mm	45 mm
5154-0085	M24 x 3.0P	458 mm	45 mm
5154-0086	M24 x 3.0P	508 mm	45 mm

## STEP CLAMP

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▶ 5155-0001~5155-0015

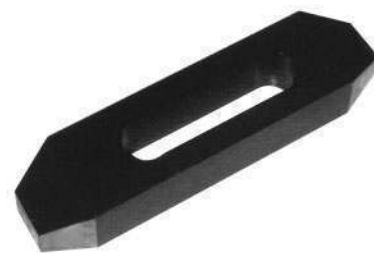


CODE No.	Bolt size	Length	Width	Thickness
5155-0001	3/8"	2-1/2"	1"	1/2"
5155-0002	3/8"	4"	1"	5/8"
5155-0003	3/8"	6"	1-1/8"	3/4"
5155-0004	1/2"	2-1/2"	1-1/8"	1/2"
5155-0005	1/2"	4"	1-1/4"	3/4"
5155-0006	1/2"	6"	1-1/4"	7/8"
5155-0007	5/8"	2-1/2"	1-1/4"	5/8"
5155-0008	5/8"	4"	1-1/2"	3/4"
5155-0009	5/8"	6"	1-1/2"	7/8"
5155-0010	3/4"	4"	1-1/2"	3/4"
5155-0011	3/4"	6"	1-1/2"	1"
5155-0012	3/4"	8"	1-3/4"	1-1/8"
5155-0013	1"	6"	2"	1-1/4"
5155-0014	1"	8"	2"	1-3/8"
5155-0015	1"	10"	2"	1-1/2"

## PLAIN CLAMP

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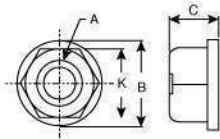
▶ 5156-0001~5156-0015



CODE No.	Bolt size	Length	Width	Thickness
5156-0001	3/8"	2-1/2"	1"	1/2"
5156-0002	3/8"	4"	1"	5/8"
5156-0003	3/8"	6"	1-1/8"	3/4"
5156-0004	1/2"	2-1/2"	1-1/8"	1/2"
5156-0005	1/2"	4"	1-1/4"	3/4"
5156-0006	1/2"	6"	1-1/4"	7/8"
5156-0007	5/8"	2-1/2"	1-1/4"	5/8"
5156-0008	5/8"	4"	1-1/2"	3/4"
5156-0009	5/8"	6"	1-1/2"	7/8"
5156-0010	3/4"	4"	1-1/2"	3/4"
5156-0011	3/4"	6"	1-1/2"	1"
5156-0012	3/4"	8"	1-3/4"	1-1/8"
5156-0013	1"	6"	2"	1-1/4"
5156-0014	1"	8"	2"	1-3/8"
5156-0015	1"	10"	2"	1-1/2"

## FLANGED NUT

► 5157-0001~5157-1007



TAIWAN

### INCH SIZE

CODE No.	Slot Size	O.D	Thickness	Hex Size
5157-0001	5/16"-18	3/4"	3/8"	9/16"
5157-0002	3/8"-16	7/8"	1/2"	11/16"
5157-0003	1/2"-12	1-1/8"	11/16"	13/16"
5157-0004	5/8"-11	1-3/8"	7/8"	1-1/32"
5157-0005	3/4"-10	1-5/8"	1"	1-1/4"
5157-0006	7/8"-9	1-3/4"	1-1/8"	1-7/16"
5157-0007	1"-8	2"	1-1/4"	1-5/8"

### METRIC SIZE

CODE No.	Slot Size	O.D	Thickness	Hex Size
5157-1001	M8 x 1.25	19 mm	10 mm	13 mm
5157-1002	M10 x 1.5	22 mm	13 mm	17 mm
5157-1003	M12 x 1.75	29 mm	17 mm	21 mm
5157-1004	M16 x 2.0	35 mm	22 mm	26 mm
5157-1005	M18 x 2.5	42 mm	25 mm	32 mm
5157-1006	M20 x 2.5	42 mm	25 mm	32 mm
5157-1007	M24 x 3.0	50 mm	32 mm	41 mm

## SWIVEL FLANGED NUT

► 5157-0008~5157-0011



TAIWAN

### INCH SIZE

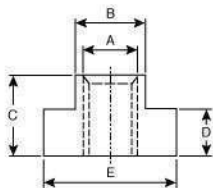
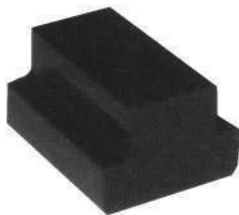
CODE No.	Thread
5157-0008	3/8"-16
5157-0009	1/2"-12
5157-0010	5/8"-11
5157-0011	3/4"-10

### METRIC SIZE

CODE No.	Thread
5157-1008	M10
5157-1009	M12,M14
5157-1010	M16
5157-1011	M20

## T-SLOTS

► 5158-0001~5158-1009



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### INCH SIZE

CODE No.	A	B	C	D	E	Length
5158-0001	5/16"-18	3/8"	1/2"	3/16"	5/8"	7/8"
5158-0002	3/8"-16	7/16"	1/2"	7/32"	11/16"	7/8"
5158-0003	3/8"-16	1/2"	1/2"	9/32"	7/8"	7/8"
5158-0004	3/8"-16	9/16"	5/8"	5/16"	7/8"	1-1/8"
5158-0005	1/2"-12	9/16"	5/8"	5/16"	7/8"	1-1/8"
5158-0006	1/2"-12	5/8"	5/8"	5/16"	1"	1-1/8"
5158-0007	1/2"-12	11/16"	3/4"	7/16"	1-1/8"	1-1/4"
5158-0008	5/8"-11	11/16"	3/4"	7/16"	1-1/8"	1-1/4"
5158-0009	5/8"-11	3/4"	3/4"	15/32"	1-1/4"	1-1/4"
5158-0010	5/8"-11	13/16"	1"	9/16"	1-1/4"	1-1/2"
5158-0011	3/4"-10	13/16"	1"	9/16"	1-1/4"	1-1/2"
5158-0012	3/4"-10	7/8"	1-1/8"	9/16"	1-3/8"	1-1/2"
5158-0013	3/4"-10	1"	1"	5/8"	1-9/16"	1-3/4"
5158-0014	7/8"-9	1"	1"	5/8"	1-5/8"	1-1/2"
5158-0015	1"-8	1-1/16"	1-1/2"	11/16"	1-5/8"	2"

### METRIC SIZE

CODE No.	A	B	C	D	E	Length
5158-1001	M8 x 1.25	10 mm	12 mm	6 mm	16 mm	22 mm
5158-1002	M10 x 1.5	12 mm	12 mm	6.8 mm	17.5 mm	22 mm
5158-1003	M12 x 1.75	14 mm	16 mm	8 mm	22 mm	28 mm
5158-1004	M12 x 1.75	16 mm	16 mm	8 mm	25 mm	28 mm
5158-1005	M14 x 2	16 mm	16 mm	8 mm	25 mm	28 mm
5158-1006	M16 x 2	18 mm	19 mm	11 mm	28 mm	31 mm
5158-1007	M18 x 2.5	20 mm	24 mm	12 mm	32 mm	38 mm
5158-1008	M20 x 2.5	22 mm	28 mm	14 mm	35 mm	38 mm
5158-1009	M24 x 3.0	28 mm	36 mm	18 mm	34 mm	49 mm

## COUPLING NUTS ▶ 5159-0001~5159-1007

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### INCH SIZE

CODE No.	Thread	Parallel	Length
5159-0001	5/16"-18	9/16"	7/8"
5159-0002	3/8"-16	11/16"	1"
5159-0003	1/2"-12	13/16"	1-1/4"
5159-0004	5/8"-11	1-1/32"	1-5/8"
5159-0005	3/4"-10	1-1/4"	1-7/8"
5159-0006	7/8"-9	1-7/16"	1-7/8"
5159-0007	1"-8	1-5/8"	2-1/2"

### METMIC SIZE

CODE No.	Thread	Parallel	Length
5159-1001	5/16"-18	13 mm	22 mm
5159-1002	3/8"-16	17 mm	25 mm
5159-1003	1/2"-12	21 mm	32 mm
5159-1004	5/8"-11	26 mm	40 mm
5159-1005	3/4"-10	32 mm	48 mm
5159-1006	7/8"-9	32 mm	48 mm
5159-1007	1"-8	41 mm	63 mm

## SCREW JACK ▶ 5160-0001~5160-0004

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CODE No.	Size	H-H1
5160-0001	70	50-70
5160-0002	100	70-100
5160-0003	150	100-150
5160-0004	250	150-250

## SAUCER WASHER

▶ 5161-0001~5161-1007

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### METRIC / INCH ARE SAME SIZE

CODE No.	Inner Diameter	Outer Diameter	Thickness
5161-0001	10.3 mm	22 mm	4 mm
5161-0002	13 mm	30 mm	6 mm
5161-0003	15 mm	30 mm	8 mm
5161-0004	16.5 mm	35 mm	10 mm
5161-0005	20.5 mm	38 mm	10 mm
5161-0006	23 mm	45 mm	10 mm
5161-0007	26 mm	50 mm	12 mm

### INCH SIZE

CODE No.	Inner Diameter	Outer Diameter	Thickness
5161-1001	3/8"	22 mm	4 mm
5161-1002	1/2"	30 mm	6 mm
5161-1003		30 mm	8 mm
5161-1004	5/8"	35 mm	10 mm
5161-1005	3/4"	38 mm	10 mm
5161-1006	7/8"	45 mm	10 mm
5161-1007	1"	50 mm	12 mm

## SIMPLE CLAMPING SYSTEMS SELECTED STEEL HARDENED

▶ 7000-UP13~7000-U190 / 7000-CS04

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▲ 7000-UP13 ~ 7000-UP19



▲ 7000-U130 ~ 7000-U190



▲ 7000-CS04

CODE No.	T-Slot	L x W x H	Net Wieght
7000-UP13	1/2"	122 x 38 x 30 mm	1.7 Kgs (2 Pcs.)
7000-UP16	5/8"	148 x 45 x 45 mm	2.1 Kgs (2 Pcs.)
7000-UP19	3/4"	202 x 60 x 50 mm	4.5 Kgs (2 Pcs.)
7000-U130	1/2"	105 x 45 x 38 mm	1.6 Kgs (2 Pcs.)
7000-U160	5/8"	126 x 54 x 40 mm	2.5 Kgs (2 pcs.)
7000-U190	3/4"	152 x 60 x 55 mm	4.6 Kgs

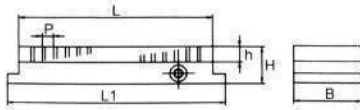
CODE No.	Screw Size	Hex Size	Length	Hex. Height	Max. Holding Force	Net Wieght
7000-CS04	1/2" x 12UNC	1"	1"	3/8"	4000 Lbs.	0.7 kgs



## STANDARD PERMANENT-MAGNETIC CHUCK

CHINA

▶ 5543-0407~5543-1240



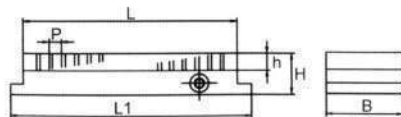
CODE No.	Size	Face-h/Total-H	Pitch-mm	Net Weight
5543-0407	100 x 175 mm	18 / 40	2 + 8	6 kgs
5543-0408	100 x 200 mm	18 / 40	2 + 8	7 kgs
5543-0409	100 x 220 mm	18 / 40	2 + 8	7 kgs
5543-0410	100 x 250 mm	18 / 40	2 + 8	8 kgs
5543-0412	100 x 300 mm	18 / 40	2 + 8	10 kgs
5543-0510	125 x 250 mm	18 / 40	3 + 12	10 kgs
5543-0512	125 x 300 mm	18 / 40	3 + 12	12 kgs
5543-0513	125 x 315 mm	18 / 40	3 + 12	13 kgs
5543-0610	150 x 250 mm	18 / 40	3 + 12	12 kgs
5543-0612	150 x 300 mm	18 / 40	3 + 12	14 kgs
5543-0614	150 x 350 mm	18 / 40	3 + 12	17 kgs
5543-0616	150 x 400 mm	18 / 40	3 + 12	19 kgs
5543-0618	150 x 450 mm	18 / 40	3 + 12	21 kgs
5543-0814	200 x 350 mm	20 / 50	3 + 12	28 kgs
5543-0816	200 x 400 mm	20 / 50	3 + 12	32 kgs
5543-0818	200 x 450 mm	20 / 50	3 + 12	35 kgs
5543-0819	200 x 460 mm	20 / 50	3 + 12	36 kgs
5543-0820	200 x 500 mm	20 / 50	3 + 12	39 kgs
5543-0822	200 x 560 mm	20 / 50	3 + 12	44 kgs
5543-0824	200 x 600 mm	20 / 50	3 + 12	47 kgs
5543-1016	250 x 400 mm	20 / 50	3 + 12	39 kgs
5543-1020	250 x 500 mm	20 / 50	3 + 12	49 kgs
5543-1024	250 x 600 mm	20 / 50	3 + 12	59 kgs
5543-1220	300 x 500 mm	20 / 50	3 + 12	59 kgs
5543-1240	300 x 600 mm	20 / 50	3 + 12	70 kgs



## PERMANENT-MAGNETIC CHUCK-1 + 4 FINE PITCH

CHINA

▶ 5545-0407~5545-1224



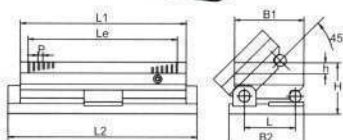
CODE No.	Length x Width	Thickness Face-h/Total-H	Net Weight
5545-0407	100 x 175 mm	18 / 40 mm	6 kgs
5545-0408	100 x 200 mm	18 / 40 mm	7 kgs
5545-0410	100 x 250 mm	18 / 40 mm	8 kgs
5545-0412	100 x 300 mm	18 / 40 mm	10 kgs
5545-0510	125 x 250 mm	18 / 40 mm	10 kgs
5545-0512	125 x 300 mm	18 / 40 mm	12 kgs
5545-0513	125 x 315 mm	18 / 40 mm	13 kgs
5545-0610	150 x 250 mm	18 / 40 mm	12 kgs
5545-0612	150 x 300 mm	18 / 40 mm	14 kgs
5545-0614	150 x 350 mm	18 / 40 mm	17 kgs
5545-0616	150 x 400 mm	18 / 40 mm	19 kgs
5545-0618	150 x 450 mm	18 / 40 mm	21 kgs
5545-0619	150 x 460 mm	18 / 40 mm	22 kgs
5545-0814	200 x 350 mm	20 / 50 mm	28 kgs
5545-0816	200 x 400 mm	20 / 50 mm	32 kgs
5545-0817	200 x 450 mm	20 / 50 mm	35 kgs
5545-0818	200 x 460 mm	20 / 50 mm	36 kgs
5545-0820	200 x 500 mm	20 / 50 mm	39 kgs
5545-0822	200 x 560 mm	20 / 50 mm	44 kgs
5545-0824	200 x 600 mm	20 / 50 mm	47 kgs
5545-1016	250 x 400 mm	20 / 50 mm	39 kgs
5545-1020	250 x 500 mm	20 / 50 mm	49 kgs
5545-1024	250 x 600 mm	20 / 50 mm	59 kgs
5545-1220	300 x 500 mm	20 / 50 mm	59 kgs
5545-1224	300 x 600 mm	20 / 50 mm	70 kgs



## INCLINATION PERMANENT MAGNETIC CHUCK

CHINA

▶ 5542-0407~5542-0828



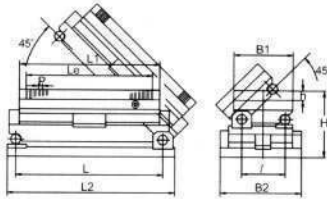
CODE No.	B1	L1	Le	B2	L2	H	h	L	Pitch	Tilting	Net Weight
5542-0407	100	175	139	120	230	85	18	75	1 + 2	1-45 deg.	12 Kgs
5542-0513	125	315	266	140	370	90	18	90	1 + 4	0-45 deg.	26 Kgs
5542-0612	150	300	251	165	355	90	18	120	1 + 4	0-45 deg.	30 Kgs
5542-0614	150	350	301	165	405	90	18	120	1 + 4	0-45 deg.	35 Kgs
5542-0816	200	400	351	215	470	110	20	150	1 + 4	0-45 deg.	52 Kgs
5542-0822	200	560	510	215	640	105	20	150	1 + 4	0-45 deg.	72 Kgs
5542-0828	200	710	651	235	795	110	22	175	1 + 4	0-45 deg.	116 Kgs



## DUAL DIRECTION INCLINATION PERMANENT MAGNETIC CHUCK

▶ 5541-1022~5541-2040

CHINA



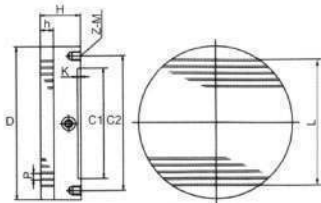
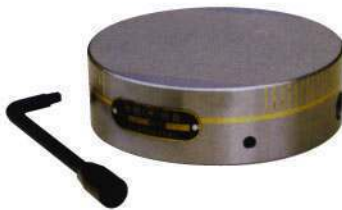
CODE No.	B1	L1	Le	B2	H	h	L	I	L2	Pitch	Net Weight
5541-1022	100	220	186	155	130	18	220	75	285	1 + 4	23 Kgs
5541-1230	125	300	251	180	135	18	300	90	365	1 + 4	38 Kgs
5541-1231	125	315	266	180	135	18	320	90	380	1 + 4	40 Kgs
5541-1530	150	300	251	205	135	18	300	120	365	1 + 4	46 Kgs
5541-1535	150	350	301	205	135	18	360	120	415	1 + 4	54 Kgs
5541-1540	150	400	351	205	135	18	400	120	465	1 + 4	62 Kgs
5541-2040	150	400	351	205	150	20	400	120	470	1 + 4	75 Kgs



## CIRCULAR PERMANENT MAGNETIC CHUCK

▶ 5540-0100~5541-0600

CHINA



CODE No.	D	H	h	L	C1	C2	K	Z	M	Pitch	Net Weight
5540-0100	100	55	20	72	60	88	4	4	M6	2 + 8	3 Kgs
5540-0125	125	55	20	92	80	110	4	4	M6	2 + 8	5 Kgs
5541-0150	150	55	20	112	100	130	4	4	M8	2 + 8	8 Kgs
5541-0160	160	55	20	132	100	140	4	4	M8	2 + 8	9 Kgs
5541-0200	200	60	22	168	160	180	4	4	M10	3 + 12	15 Kgs
5541-0250	250	60	22	198	200	224	4	4	M10	3 + 12	23 Kgs
5541-0300	300	60	22	228	230	260	4	4	M12	3 + 12	33 Kgs
5541-0320	320	65	25	258	265	290	4	4	M12	3 + 12	41 Kgs
5541-0400	400	65	25	318	300	370	4	4	M12	3 + 12	64 Kgs
5541-0500	500	65	25	408	400	440	4	4	M12	3 + 12	100 Kgs
5541-0600	600	70	25	528	450	500	4	4	M12	3 + 12	154 Kgs

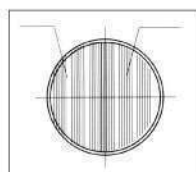
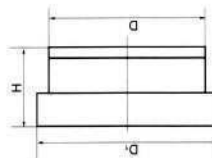
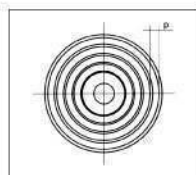
Remark- 1+4mm Fine pitch Circular Permanent Magnetic Chuck- please add "F"  
5541-0400F means 500mm dia. With 1+4 Pitch.  
C2 and L parameters are slightly larger



## ELECTRO-MAGNETIC CIRCULAR CHUCKS

▶ 5548-0250~5550-0780

CHINA



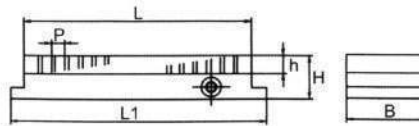
CODE No.	Size-Dia	Current Amps	Power Watts	Pitch	D1 x H	Surface Pitch
5548-0250	250 mm	0.73	86	4 + 11	265 x 110 mm	circular
5548-0320	320 mm	0.8	86	4 + 11	325 x 105 mm	circular
5548-0500	500 mm	1.1	123	4 + 11	510 x 107 mm	circular
5548-0600	600 mm	3.4	377	4 + 12	600 x 118 mm	circular
5548-0800	800 mm	3.5	400	4 + 12	820 x 180 mm	circular
5548-1001	1000 mm	4.5	496	4 + 12	1040 x 181 mm	circular
5548-1250	1250 mm	13.9	1376	4 + 13	1290 x 210 mm	circular
5550-0510	510 mm	1.1	123	4 + 1	510 x 107 mm	Stripe fine pole
5550-0630	630 mm	3	330	4 + 1	640 x 135 mm	Stripe fine pole
5550-0780	780 mm	5.1	561	4 + 1	780 x 200 mm	Stripe fine pole



## HEAVY DUTY PERMANENT MAGNETIC CHUCK-1 + 2 PITCH

CHINA

▶ 5544-0614 / 5544-0518



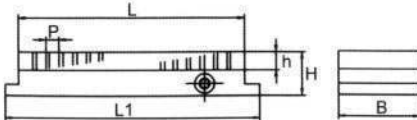
CODE No.	Size	Face-h/Total-H	Net Weight
5544-0614	150 x 350 mm	18 / 60 mm	25 kgs
5544-0518	150 x 450 mm	18 / 60 mm	32 Kgs



## PERMANENT-MAGNETIC CHUCK 0.5+1 FINE PITCH

CHINA

▶ 5546-0408~5546-1020

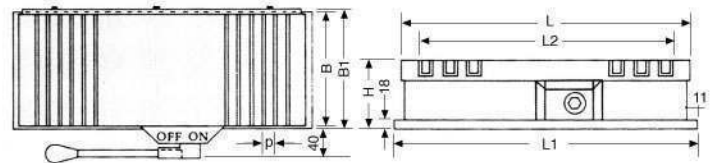


CODE No.	Length x Width	Thickness Face-h/Total-H	Net Weight
5546-0408	100 x 200 mm	18 / 40 mm	7 kgs
5546-0510	125 x 250 mm	18 / 40 mm	10 kgs
5546-0610	150 x 250 mm	18 / 40 mm	12 kgs
5546-0612	150 x 300 mm	18 / 40 mm	14 kgs
5546-0614	150 x 350 mm	18 / 40 mm	17 kgs
5546-0618	150 x 450 mm	18 / 40 mm	21 kgs
5546-0619	150 x 460 mm	18 / 40 mm	22 kgs
5546-0620	160 x 460 mm	20 / 50 mm	23 kgs
5546-0816	200 x 400 mm	20 / 50 mm	32 kgs
5546-0820	200 x 500 mm	20 / 50 mm	39 kgs
5546-0824	200 x 600 mm	20 / 50 mm	47 kgs
5546-1020	250 x 500 mm	20 / 50 mm	49 kgs

## PERMANENT MAGNETIC CHUCKS-RECTANGLE

TAIWAN

▶ 5441-0407~5441-1224



### MAGNETIC FIELD INTENSITY:HIGHER THAN 650 GAUSS

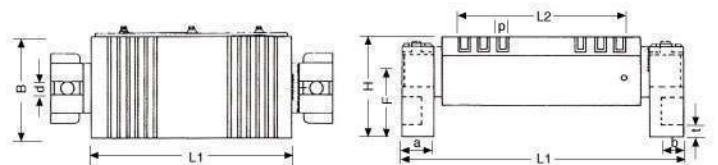
UNIT:mm

CODE No.	Dimension	Face Plate			Bottom Plate		Pole Pitch P	Switch Type	Height H	Weight
		B	L	L2	B1	L1				
5441-0407	100 x 180	100	180	137	104	200	8.5 (2.5+6)	MOVABLE HEXAGON WRENCH	73	8 kg
5441-0510	125 x 250	125	250	191	130	270				15 kg
5441-0612	150 x 300		300	245		320				22 kg
5441-0614	150 x 350	150	350	299	156	370				25 kg
5441-0618	150 x 450		450	389		475				33 kg
5441-0816	200 x 400		400	335		420				39 kg
5441-0818	200 x 450		450	389		475				44 kg
5441-0820	200 x 500	200	500	443	206	520				48 kg
5441-0824	200 x 600		600	533		620	58 kg			
5441-1020	250 x 500	250	500	417	254	530	18 (3+15)	MOVABLE HEXAGON WRENCH	90	64 kg
5441-1224	300 x 600	300	600	525	304	630			90	90 kg

## PERMANENT MAGNETIC CHUCKS-ROTARY TYPE RECTANGLE

TAIWAN

▶ 5441-1510 / 5441-1612



### MAGNETIC FIELD INTENSITY:HIGHER THAN 700 GAUSS

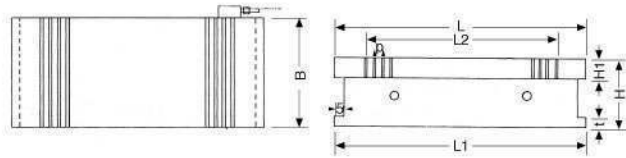
UNIT:mm

CODE No.	Dimension	Face Plate			Pole Pitch P	Rotary Seat Plane					Height H	Weight	
		B	L	L2		A	B	t	F	L1			d
5441-1510	125 x 250	125	250	191	8.5 (2.5+6)	50	35	17	96	380	16	150	26 kg
5441-1612	150 x 300	130	300	245						430			36 kg

## ELECTRICAL MAGNETIC CHUCK-RECTANGLE

TAIWAN

▶ 5442-0618~5442-2460



### MAGNETIC FIELD INTENSITY:HIGHER THAN 450 GAUSS

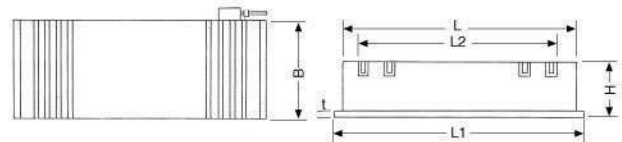
UNIT:mm

CODE No.	Dimension	Face Plate				Pole Pitch P	Bottom Plate			Voltage (DC)	Height H	Weight
		B	L	L2	H1		B	L1	t			
5442-0618	150 x 450	150	450	403	23	21 (4+17)	150	450	16	90V (60V-110V)	72	32 kg
5442-0816	200 x 400	200	400	344		20 (4+16)	200	400	16			38 kg
5442-0820	200 x 500	200	500	445		22 (4+18)	200	500	16			47 kg
5442-1020	250 x 500	250	500	445		22 (4+18)	250	500	16			59 kg
5442-1224	300 x 600	300	600	541		21.5 (4+17.5)	300	600	16			86 kg
5442-1428	350 x 700	350	700	628		21.5 (4+17.5)	350	700	18			116 kg
5442-1628	400 x 700	400	700	628		21.5 (4+17.5)	400	700	18			133 kg
5442-1632	400 x 800	400	800	739		21 (4+17)	400	800	20			152 kg
5442-1640	400 x 1000	400	1000	929		21.5 (4+17.5)	400	1000	20			190 kg
5442-2040	500 x 1000	500	1000	929		21.5 (4+17.5)	500	1000	20			267 kg
5442-2048	500 x 1200	500	1200	1134	25	22 (4+18)	500	1200	20	81	320 kg	
5442-2060	500 x 1500	500	1500	1420		24 (4+20)	500	1500	22	88	436 kg	
5442-2440	600 x 1000	600	1000	929		21.5 (4+17.5)	600	1000	20	81	320 kg	
5442-2448	600 x 1200	600	1200	1134		22 (4+18)	600	1200	20	81	385 kg	
5442-2460	600 x 1500	600	1500	1420		24 (4+20)	600	1500	22	88	522 kg	
OPTIONS												

## ELECTRICAL MAGNETIC CHUCK-RECTANGLE-POWER TYPE

TAIWAN

▶ 5444-0510~5444-2460



### MAGNETIC FIELD INTENSITY:HIGHER THAN 900 GAUSS

UNIT:mm

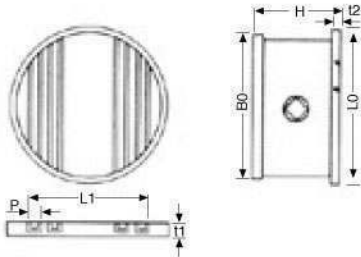
CODE No.	Dimension	Face Plate			Pole Pitch P	Bottom Plate			Height H	Weight
		B	L	L2		B	L1	t		
5444-0510	150 x 450	125	250	195	17 (3+14)	125	290	18	103	22 kg
5444-0612	200 x 400	150	300	235	21 (4+17)	150	340	18	103	31 kg
5444-0816	200 x 500	200	400	346	18 (4+14)	200	440	18	105	56 kg
5444-0820	250 x 500	200	500	445	20 (4+16)	200	540	18	105	70 kg
5444-1020	300 x 600	250	500	441	23 (4+19)	250	540	20	107	90 kg
5444-1040	350 x 700	250	1000	944	20 (4+16)	250	1050	23	115	193 kg
5444-1224	400 x 700	300	600	544	20 (4+16)	300	850	20	107	124 kg
5444-1240	400 x 800	300	1000	944	20 (4+16)	300	1050	23	115	231 kg
5444-1632	400 x 1000	400	800	739	21 (4+17)	400	850	23	110	236 kg
5444-1640	500 x 1000	400	1000	940	24 (4+20)	400	1050	23	115	308 kg
5444-1840	500 x 1200	450	1000	940	24 (4+20)	450	1050	23	115	346 kg
5444-2040	500 x 1000	500	1000	940	24 (4+20)	500	1050	23	115	385 kg
5444-2060	500 x 1500	500	1500	1440	25 (4+21)	500	1550	25	120	603 kg
5444-2448	600 x 1200	600	1200	1132	24 (4+20)	600	1250	23	115	554 kg
5444-2460	600 x 1500	600	1500	1440	25 (4+21)	600	1550	25	120	724 kg
OPTIONS										



## PERMANENT MAGNETIC CHUCKS-ROUND

► 5441-2150~5441-2300

TAIWAN



**MAGNETIC FIELD INTENSITY:  
HIGHER THAN 650 GAUSS**

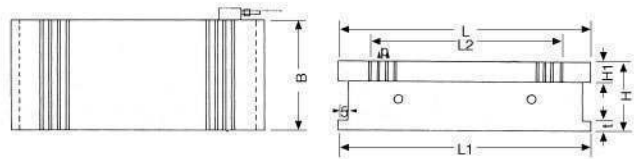
UNIT:mm

CODE No.	Face Plate			Bottom Plate		Pole Pitch P	Height H	Weight
	B0	t1	L1	t2	L0			
5441-2150	150		107		200	9 (2+7)	78	9 kg
5441-2200	200	21	137	18	200			14 kg
5441-2250	250		191		250			24 kg
5441-2300	300		227		305			30 kg

## ELECTRICAL MAGNETIC CHUCK-FINE PITCH

► 5445-0612~5445-2040

TAIWAN



**MAGNETIC FIELD INTENSITY:HIGHER THAN 500 GAUSS**

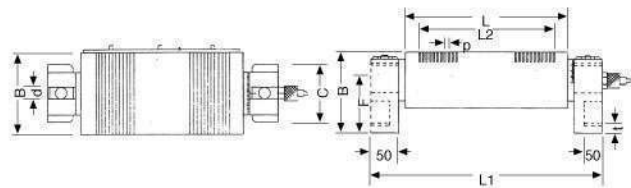
UNIT:mm

CODE No.	Dimension	Face Plate				Pole Pitch P	Bottom Plate			Voltage (DC)	Current	Height H	Weight
		B	L	L2	H1		B	L1	t				
5445-0612	150 x 300	150	300	240	23	5445-series 4(1+3)	150	300	18	90V (60V- 110V)	0.45A	93	28 kg
5445-0816	200 x 400	200	400	340			200	400			50 kg		
5445-0818	200 x 460	200	460	400			200	460			57 kg		
5445-0820	200 x 500	200	500	440			200	500			62 kg		
5445-1020	250 x 500	250	500	440	23	5555-series 2(1+1) as options	250	500	18	90V (60V- 110V)	1.3A	93	62 kg
5445-1224	300 x 600	300	600	540			300	600			112 kg		
5445-1628	400 x 700	400	700	640			400	700			175 kg		
5445-1632	400 x 800	400	800	740			400	800			199 kg		
5445-2040	500 x 1000	500	1000	940	25		500	1000	20		4.8A	100	335 kg
OPTIONS													

## ELECTRICAL MAGNETIC CHUCK-FINE PITCH ROTARY TYPE

► 5446-0510~5446-2612

TAIWAN



**MAGNETIC FIELD INTENSITY:HIGHER THAN 500 GAUSS**

UNIT:mm

CODE No.	Dimension	Face Plate			Pole Pitch P	Rotary Seat Plane				Voltage (DC)	Current	Height H	Weight
		B	L	L2		d	C	F	L1				
5446-0510	125 x 250	125	250	190	15 (3+12)	16	100	96	380	90V	0.35A	150	34 kg
5446-0612	150 x 300	150	300	240					430		0.45A		43 kg
5446-1510	125 x 250	125	250	190	4 (1+3)	16	100	96	380	90V	0.35A	150	34 kg
5446-1612	150 x 300	150	300	240					430		0.45A		43 kg
5446-2510	125 x 250	125	250	190	2 (1+1)	16	100	96	380	90V	0.35A	150	34 kg
5446-2612	150 x 300	150	300	240					430		0.45A		43 kg
OPTIONS													

**LONGITUDINAL PITCH  
ELECTRICAL MAGNETIC**

Size upon Request  
MAGNETIC FIELD INTENSITY:>500 GAUSS



**WATER COOLING TYPE  
ELECTRICAL MAGNETIC**

Size upon Request  
MAGNETIC FIELD INTENSITY:>500 GAUSS



## HOLDING BRAND RECTIFY & DEMAGNETIZE CONTROLLERS



▶ 5549-0123~5549-0805



▲ 5549-0123



▲ 5549-1800



▲ 5549-0608



▲ 5549-2800



▲ 5549-5000



▲ 9005-0260



▲ 5549-0805

CODE No.	Power Source	Demagnetize Area	Duty Cycle		Dimension	Net Weight
			Operation Raito	Brake Time		
5549-0123	110 / 220V	60 mm (2-3/4")	90 min.	10 min.	123 x 83 x 83 mm	1.8 kgs
5549-1800	110 / 220V	80 mm (4" x 7")	20 min.	20 min.	127 x 180 x 90 mm	4 kgs
5549-0608	110 / 380V	110 mm (6" x 8")	100%		150 x 200 x 100 mm	8.5 kgs
5549-2800	110 / 550V	160 mm (8" x 11")	100%		200 x 280 x 130 mm	15 kgs
5549-5000	220 / 1980V	400 mm (11" x 20")	100%		335 x 585 x 285 mm	60 kgs
9005-0260	110 / 220V	ø16 x 35 mm	Charge-15 hours ; good for 90 min.		ø30 x 260 mm	0.34 kgs
5549-0805	110 / 220V					

## REMOVES FLOATING TRAMP OILS



▶ 5301-1800 / 5301-1810

- Automatically, reliably and economically.
- Removes 4 Liters of oil per hour.
- Easy to maunting.
- 115/230 Volts, 50/60 Hz. A.C. Power Source.
- 39 x 800 mm (1-1/2" x 31-1/2") 1/2" Belt skimmer.
- Exhaust Plastic tube-22 mm OD x 600 mm.
- Length / 5301-1800.
- Timer type runs 24 hours.

CODE No.	Mfg No.	
5301-1800	HD-800	With Timer
5301-1810	HD-810	



▲ 5301-1800



▲ 5301-1810

## LAMINATED MAGNETIC CHUCK BLOCK

TAIWAN

▶ 9004-0150~9004-1106



CODE No.	Mfge No.	Length	Width	Height Pole Pitch	Net Weight
9004-0150	GT	100 mm	50 mm	25 mm 6 (3+3)	1.3 Kgs
9004-5065	GTV	50 mm	65 mm	47 mm 6 (3+3)	1.3 Kgs
9004-1106	GTV-1	110 mm	60 mm	47 mm 6 (3+3)	1.4 Kgs

## MAGNETIC BLOCK UNIT

TAIWAN

▶ 9004-0210~9004-0051



CODE No.	Mfge No.	Holding	Car of Workpiece	G	H	Connecting Swith	Net Weight
9004-0210	ECB-210CA	2100 Kgf	20 mm	115	134	no	36 Kgs
9004-0211	ECB-210CB	2100 Kgf	20 mm	115	134	yes	36 Kgs
9004-0120	ECB-120CA	1200 Kgf	15 mm	94.5	108	no	18 Kgs
9004-0121	ECB-210CB	1200 Kgf	15 mm	94.5	108	yes	18 Kgs
9004-0075	ECB-075CA	750 Kgf	10 mm	88	78	no	9.5 Kgs
9004-0076	ECB-075CA	750 Kgf	10 mm	88	78	yes	9.5 Kgs
9004-0050	ECB-050CA	500 Kgf	10 mm	61	78	no	7 Kgs
9004-0051	ECB-050CB	500 Kgf	10 mm	61	78	yes	7 Kgs

## LIFTING MAGNETIC CHUCK-BATTERY TYPE

TAIWAN

▶ 9003-0100~9003-0500



CODE No.	Mfge No.	Capacity	DVC	Power	Operating Hours	Chuck Surface
9003-0100	GM-100	1000 Kgf	12 Volts	AC110	8-10 H	200 x 250 mm
9003-0200	GM-200	2000 Kgf	12 Volts	AC110	10-15H	250 x 450 mm
9003-0300	GM-300	3000 Kgf	12 Volts	AC110	10-18H	250 x 600 mm
9003-0400	GM-400	4000 Kgf	12 Volts	AC110	10-18H	300 x 650 mm
9003-0500	GM-500	5000 Kgf	12 Volts	AC110	10-18H	350 x 650 mm

## PERMANENT LIFTING MAGNET-CAM TYPE

TAIWAN

▶ 9003-0100~9003-0200



CODE No.	Mfge No.	Capacity	Length	Width	Thickness	Net Weight
9003-0100	EL-100	1000 Kgf	320 mm	200 mm	230 mm	25 Kgs
9003-0200	EL-200	2000 Kgf	450 mm	250 mm	320 mm	35 Kgs

## PERMANENT LIFTING HANDLE TYPE

TAIWAN

▶ 9005-0100



CODE No.	Mfge No.	Capacity	Length	Width	Thickness	Net Weight
9005-0100	ELH-10S	100 Kgf	120 mm	50 mm	55 mm	2 Kgs

▶ 9005-0060



CODE No.	Mfge No.	Capacity	Length	Width	Thickness	Net Weight
9005-0060	ELH-6S	60 Kgf	60 mm	50 mm	55 mm	1.15 Kgs

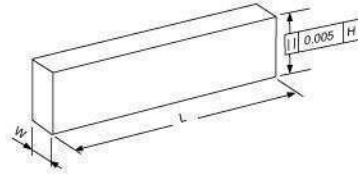
▶ 9005-0150



CODE No.	Mfge No.	Capacity	Length	Width	Thickness	Net Weight
9005-0150	ELH-15	150 Kgf	140 mm	100 mm	45 mm	1.7 Kgs

## PRECISION PARALLELS

▶ 4009-33001~4009-33014

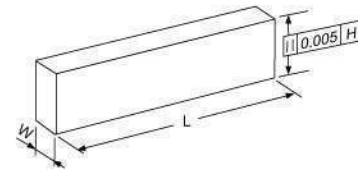


TAIWAN

CODE No.	W x H x L x PCS	CODE No.	W x H x L x PCS
4009-33001	10 x 14 x 150 x 2	4009-33008	10 x 28 x 150 x 2
4009-33002	10 x 16 x 150 x 2	4009-33009	10 x 30 x 150 x 2
4009-33003	10 x 18 x 150 x 2	4009-33010	10 x 32 x 150 x 2
4009-33004	10 x 20 x 150 x 2	4009-33011	10 x 35 x 150 x 2
4009-33005	10 x 22 x 150 x 2	4009-33012	10 x 40 x 150 x 2
4009-33006	10 x 24 x 150 x 2	4009-33013	10 x 45 x 150 x 2
4009-33007	10 x 26 x 150 x 2	4009-33014	10 x 50 x 150 x 2

## PRECISION PARALLELS

▶ 4009-33016~4009-33043

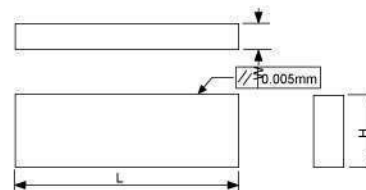


TAIWAN

CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs
4009-33016	8.5 x 20 x 150 x 2	4009-33019	12.6 x 38 x 200 x 2
4009-33017	8.5 x 24 x 150 x 2	4009-33020	12.6 x 44 x 200 x 2
4009-33018	8.5 x 30 x 150 x 2		
CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs
4009-33022	8.5 x 10 x 150 x 2	4009-33026	8.5 x 30 x 150 x 2
4009-33023	8.5 x 15 x 150 x 2	4009-33027	12.6 x 38 x 200 x 2
4009-33024	8.5 x 20 x 150 x 2	4009-33028	12.6 x 44 x 200 x 2
4009-33025	8.5 x 24 x 150 x 2		
CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs
4009-33037	6.8 x 15 x 150 x 2	4009-33041	6.8 x 27 x 150 x 2
4009-33038	6.8 x 18 x 150 x 2	4009-33042	6.8 x 31 x 150 x 2
4009-33039	6.8 x 21 x 150 x 2	4009-33043	6.8 x 35 x 150 x 2
4009-33040	6.8 x 25 x 150 x 2		

## PRECISION PARALLELS

▶ 4009-33045~4009-33048



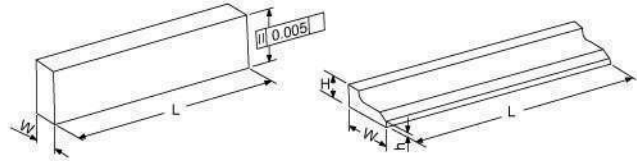
TAIWAN

CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs
4009-33045	8 x 24 x 200 x 2	4009-33047	22 x 40 x 200 x 2
4009-33046	12 x 36 x 200 x 2	4009-33048	31 x 15 x 200 x 2 x 2.5

## GROUND PARALLELS (mm)

TAIWAN

▶ 4009-32017~4009-32025



CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs
4009-32017	5 x 16 x 100 x 2	4009-32022	14 x 48 x 150 x 2
4009-32018	6 x 18 x 100 x 2	4009-32023	18 x 60 x 150 x 2
4009-32019	8 x 24 x 100 x 2	4009-32024	22 x 62 x 150 x 2
4009-32020	10 x 30 x 100 x 2	4009-32025	31 x 15 x 200 x 2 x 2.5
4009-32021	12 x 36 x 150 x 2		

## UNIVERSAL ANGLE BLOCK SET (INCH)

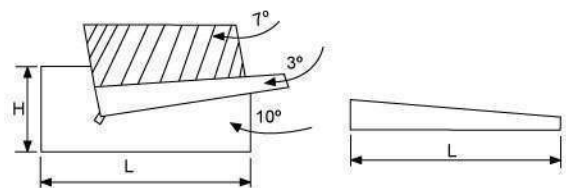
TAIWAN

▶ 4009-32027A / 4009-32027B



▲ 4009-32027A

▲ 4009-32027B



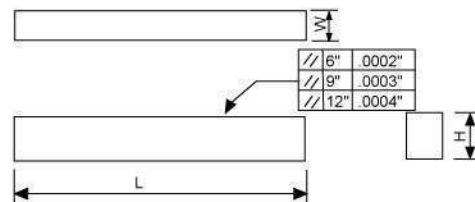
CODE No.	W x H x L	Net Weight
4009-32027A	1-3/16" x 1-3/16" x 3"	1.8 kg
4009-32027B	1-1/2" x 1-1/2" x 4"	3.6 kg

## PARALLELS (INCH)

TAIWAN

▶ 4009-32028~4009-32036 ▶ JC-32-037~JC-32-044

- Made of high grade tool steel. hardened and precision ground to very close tolerances on 4 sides. Parallels are finished, packed and sold in pairs. Tolerance is within  $\pm 0.0002$ ".

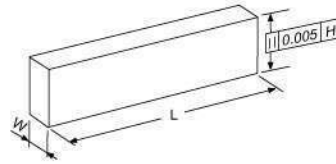


CODE No.	W x H x L	Net Weight
4009-32028	1/4 x 1/2 x 6 x 2	0.2 kg
4009-32029	1/4 x 5/8 x 6 x 2	0.25 kg
4009-32030	1/4 x 3/4 x 6 x 2	0.3 kg
4009-32031	3/8 x 1/2 x 6 x 2	0.3 kg
4009-32032	3/8 x 3/4 x 6 x 2	0.44 kg
4009-32033	1/2 x 3/4 x 6 x 2	0.58 kg
4009-32034	1/2 x 1 x 6 x 2	0.8 kg
4009-32035	1/2 x 3/4 x 9 x 2	0.87 kg
4009-32036	1/2 x 1 x 9 x 2	1.2 kg

CODE No.	W x H x L	Net Weight
JC-32-037	3/4 x 1 x 9 x 2	1.8 kg
JC-32-038	3/4 x 1 x 12 x 2	2.4 kg
JC-32-039	3/4 x 1-1/4 x 12 x 2	2.9 kg
JC-32-040	1 x 2 x 12 x 2	6.4 kg
JC-32-041	1-1/4 x 1-1/2 x 12 x 2	5.7 kg
JC-32-042	1-1/4 x 2 x 12 x 2	7.7 kg
JC-32-043	1-1/2 x 2 x 12 x 2	10.9 kg
JC-32-044	1-1/2 x 3 x 12 x 2	16.4 kg

## PRECISION PARALLELS (mm)

► 4009-31001~4009-31029

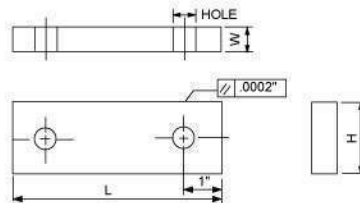


TAIWAN

CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs
4009-31001	3 x 13 x 150 x 2	4009-31005	3 x 25 x 150 x 2	4009-31008	3 x 35 x 150 x 2
4009-31002	3 x 16 x 150 x 2	4009-31006	3 x 28 x 150 x 2	4009-31009	3 x 38 x 150 x 2
4009-31003	3 x 19 x 150 x 2	4009-31007	3 x 31 x 150 x 2	4009-31010	3 x 41 x 150 x 2
4009-31004	3 x 22 x 150 x 2				
CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs
4009-31012	4 x 10 x 100 x 2	4009-31015	4 x 22 x 100 x 2	4009-31018	4 x 34 x 100 x 2
4009-31013	4 x 14 x 100 x 2	4009-31016	4 x 26 x 100 x 2	4009-31019	4 x 38 x 100 x 2
4009-31014	4 x 18 x 100 x 2	4009-31017	4 x 30 x 100 x 2	4009-31020	4 x 42 x 100 x 2
CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs
4009-31022	8 x 12 x 120 x 2	4009-31025	8 x 25 x 120 x 2	4009-31028	8 x 36 x 120 x 2
4009-31023	8 x 17 x 120 x 2	4009-31026	8 x 28 x 120 x 2	4009-31029	8 x 38 x 120 x 2
4009-31024	8 x 22 x 120 x 2	4009-31027	8 x 32 x 120 x 2		

## 1/8" THIN STYLE PARALLELS SET (INCH)

► 4009-32001~4009-32010



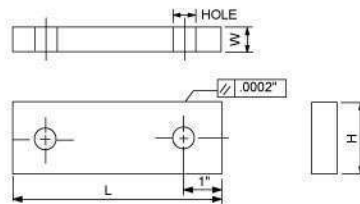
TAIWAN

CODE No.	W x H x L x Pcs	Hole	CODE No.	W x H x L x Pcs	Hole
4009-32001	1/8 x 1/2 x 6 x 2	1/4"	4009-32006	1/8 x 1-1/8 x 6 x 2	3/8"
4009-32002	1/8 x 5/8 x 6 x 2	1/4"	4009-32007	1/8 x 1-1/4 x 6 x 2	3/8"
4009-32003	1/8 x 3/4 x 6 x 2	5/16"	4009-32008	1/8 x 1-3/8 x 6 x 2	1/2"
4009-32004	1/8 x 7/8 x 6 x 2	5/16"	4009-32009	1/8 x 1-1/2 x 6 x 2	1/2"
4009-32005	1/8 x 1 x 6 x 2	5/16"	4009-32010	1/8 x 1-5/8 x 6 x 2	1/2"

## PRECISION PARALLELS SET (INCH)

► 4009-32013~4009-32016

TAIWAN

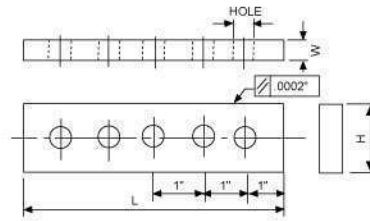


- Set of 4 pairs of hardened and ground parallels. 1", 1-1/4", 1-1/2", 1-3/4" in height x 6" long, with 5/16 thru and 1/2 holes.
- The 1" and 1-1/4" parallels are 3/16" thick. The 1-1/2" and 1-3/4" parallels are 1/2" thick. For setting up work for drilling and measuring. With wooden case.

CODE No.	W x H x L x Pcs	Hole	CODE No.	W x H x L x Pcs	Hole
4009-32013	3/16 x 1 x 6 x 2	5/16"	4009-32015	1/2 x 1-1/2 x 6 x 2	1/2"
4009-32014	3/16 x 1-1/4 x 6 x 2	5/16"	4009-32016	1/2 x 1-3/4 x 6 x 2	1/2"

## PRECISION PARALLELS (INCH)

▶ 4009-32046~4009-32049



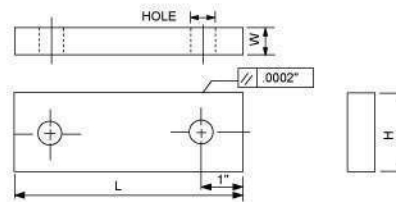
TAIWAN

- Made of high grade alloy steel, hardened and ground. Five holes in each parallel to make them lighter and for easy set-ups. All 6" long.
- Accuracy: .0003" parallelism in height  $\pm$ .0002" to size in height.
- 3/16" all 4 sizes in the box.

CODE No.	W x H x L x Pcs	Hole
4009-32046	3/16 x 1 x 6 x 2	5/16"
4009-32047	3/16 x 1-1/4 x 6 x 2	5/16"
4009-32048	3/16 x 1-1/2 x 6 x 2	5/16"
4009-32049	3/16 x 1-3/4 x 6 x 2	5/16"

## PRECISION PARALLELS (INCH)

▶ 4009-32051~4009-32054



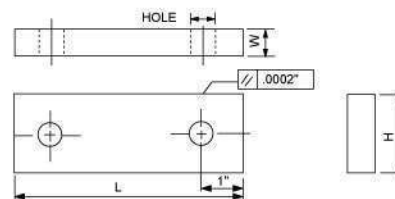
TAIWAN

- 1/2" ALL 4 SIZES IN THE BOX

CODE No.	W x H x L x Pcs	Hole
4009-32051	1/2 x 1 x 6 x 2	5/16"
4009-32052	1/2 x 1-1/4 x 6 x 2	3/8"
4009-32053	1/2 x 1-1/2 x 6 x 2	1/2"
4009-32054	1/2 x 1-3/4 x 6 x 2	1/2"

## PRECISION PARALLELS SET (INCH)

▶ 4009-32064~4009-32072



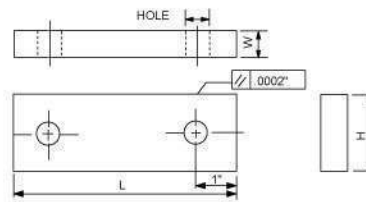
TAIWAN

CODE No.	W x H x L x Pcs	Hole
4009-32064	1/4 x 3/4 x 6 x 2	5/16"
4009-32065	1/4 x 7/8 x 6 x 2	5/16"
4009-32066	1/4 x 1 x 6 x 2	5/16"
4009-32067	1/4 x 1-1/8 x 6 x 2	3/8"
4009-32068	1/4 x 1-1/4 x 6 x 2	3/8"
4009-32069	1/4 x 1-3/8 x 6 x 2	7/16"
4009-32070	1/4 x 1-1/2 x 6 x 2	7/16"
4009-32071	1/4 x 1-5/8 x 6 x 2	1/2"
4009-32072	1/4 x 1-3/4 x 6 x 2	1/2"



## PRECISION PARALLELS (INCH)

► 4009-32073~4009-32080



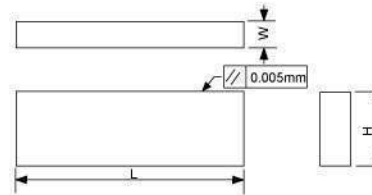
TAIWAN

- 1/2" Thick-6" long parallelism in Height .0002" to size in height made from high quality alloy steel Hardened & Ground Two holes in each parallel for easier handling.
- 1/2" Set (In Deluxe Hardwood Box)

CODE No.	W x H x L x Pcs	Hole
4009-32073	1/2 x 7/8 x 6 x 2	5/16"
4009-32074	1/2 x 1 x 6 x 2	5/16"
4009-32075	1/2 x 1-1/8 x 6 x 2	3/8"
4009-32076	1/2 x 1-1/4 x 6 x 2	3/8"
4009-32077	1/2 x 1-3/8 x 6 x 2	7/16"
4009-32078	1/2 x 1-1/2 x 6 x 2	7/16"
4009-32079	1/2 x 1-5/8 x 6 x 2	1/2"
4009-32080	1/2 x 1-3/4 x 6 x 2	1/2"

## GROUND PARALLELS (mm)

► 4009-32081~4009-32089



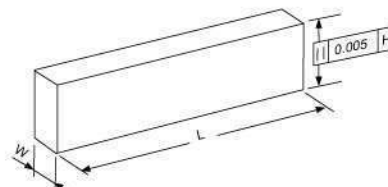
TAIWAN

- 1/2" ALL 4 SIZES IN THE BOX

CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs
4009-32081	8.5 x 14 x 150 x 2	4009-32086	8.5 x 32 x 150 x 2
4009-32082	8.5 x 16 x 150 x 2	4009-32087	8.5 x 36 x 150 x 2
4009-32083	8.5 x 20 x 150 x 2	4009-32088	8.5 x 40 x 150 x 2
4009-32084	8.5 x 24 x 150 x 2	4009-32089	8.5 x 44 x 150 x 2
4009-32085	8.5 x 30 x 150 x 2		

## PRECISION PARALLELS (mm)

► 4009-32090~4009-33035



TAIWAN

CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs
4009-32090	4.6 x 20 x 150 x 2	4009-33030	4.6 x 32 x 150 x 2
4009-32091	4.6 x 22 x 150 x 2	4009-33031	4.6 x 34 x 150 x 2
4009-32092	4.6 x 24 x 150 x 2	4009-33032	4.6 x 36 x 150 x 2
4009-32093	4.6 x 26 x 150 x 2	4009-33033	4.6 x 38 x 150 x 2
4009-32094	4.6 x 28 x 150 x 2	4009-33034	4.6 x 40 x 150 x 2
4009-32095	4.6 x 30 x 150 x 2	4009-33035	4.6 x 42 x 150 x 2

## UNIVERSAL BLOCK ▶ 4009-35001~4009-35004

TAIWAN

### 2 - 4 - 6 BLOCKS

- Supplied in matching pairs.
- Surface finish to 6~16 micro-inches.
- Squareness on all sides is within 0.0001" per inch.
- Size allowance is +0.0006" to 0"
- Cust hardened to HRC 55 - 58 and sides are precision ground.
- 22 holes on six faces.



CODE No.	L	W	G	Net Weight
4009-35001	76.2 mm (3")	50.8 mm (2")	25.4 mm (1")	1 kgs
4009-35002	76.2 mm (3")	50.8 mm (2")	25.4 mm (1")	1 kgs
4009-35003	101.6 mm (4")	76.2 mm (3")	50.8 mm (2")	5.2 kgs
4009-35004	152.4 mm (6")	101.6 mm (4")	50.8 mm (2")	8.7 kgs

## ANGLE BLOCK ▶ 4009-36001A / 4009-36001B

TAIWAN

- Furnished in 1° increments 5° degrees and in 5° increments to 30° degrees. With the addition of the optional 1/4 and 1/2 blocks virtually and conceivable angle to these increments can be established.

### FEATURES

- Simple, quick angle set-ups.
- Eliminates calculations, avoids errors.
- Lightly magnetized for better holding.
- Manufactured of steel, hardened, stabilized and ground.
- Sizes: 3" long x 1/4" thick.
- Accuracy: 0001" per inch.
- Oil-hardened steel, precision ground.



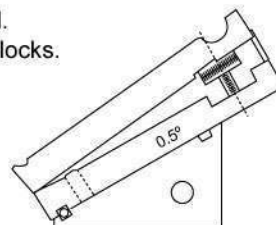
CODE No.	Angle	Net Weight
4009-36001A	1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°, 10 pcs.	1.0 kg
4009-36001B	1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°, 12 pcs.	1.1 kg

## MICROMETRIC TANGENT BAR & ANGLE GAUGE BLOCK SET

TAIWAN

### MICROMETRIC TANGENT BAR & ANGLE GAUGE BLOCK SET

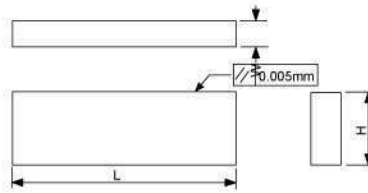
- Made of hardened steel, precision ground.
- Accuracy ± 0001" per inch.
- Interlocking slots.
- Size of angle blocks: 35" x 3"
- Complete set for angular set-ups. No other gauges required.
- Consists of one MTB-202 listed below with 5 angle gauge blocks. (5°, 10°, 20°, 30°, 45°)



## PRECISION PARALLELS

TAIWAN

▶ 4009-31050A~4009-31067A  
4009-31050B~4009-31067B



CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs
4009-31050A	8 x 16 x 150 x 2	4009-31056A	8 x 28 x 150 x 2	4009-31062A	8 x 40 x 150 x 2
4009-31051A	8 x 18 x 150 x 2	4009-31057A	8 x 30 x 150 x 2	4009-31063A	8 x 42 x 150 x 2
4009-31052A	8 x 20 x 150 x 2	4009-31058A	8 x 32 x 150 x 2	4009-31064A	8 x 44 x 150 x 2
4009-31053A	8 x 22 x 150 x 2	4009-31059A	8 x 34 x 150 x 2	4009-31065A	8 x 46 x 150 x 2
4009-31054A	8 x 24 x 150 x 2	4009-31060A	8 x 36 x 150 x 2	4009-31066A	8 x 48 x 150 x 2
4009-31055A	8 x 26 x 150 x 2	4009-31061A	8 x 38 x 150 x 2	4009-31067A	8 x 50 x 150 x 2
CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs	CODE No.	W x H x L x Pcs
4009-31050B	8 x 17 x 150 x 2	4009-31056B	8 x 29 x 150 x 2	4009-31062B	8 x 41 x 150 x 2
4009-31051B	8 x 19 x 150 x 2	4009-31057B	8 x 31 x 150 x 2	4009-31063B	8 x 43 x 150 x 2
4009-31052B	8 x 21 x 150 x 2	4009-31058B	8 x 33 x 150 x 2	4009-31064B	8 x 45 x 150 x 2
4009-31053B	8 x 23 x 150 x 2	4009-31059B	8 x 35 x 150 x 2	4009-31065B	8 x 47 x 150 x 2
4009-31054B	8 x 25 x 150 x 2	4009-31060B	8 x 37 x 150 x 2	4009-31066B	8 x 49 x 150 x 2
4009-31055B	8 x 27 x 150 x 2	4009-31061B	8 x 39 x 150 x 2	4009-31067B	8 x 51 x 150 x 2

## V-BLOCK AND CLAMPS

TAIWAN

▶ 4009-34001~4009-34005



▲ 4009-34001

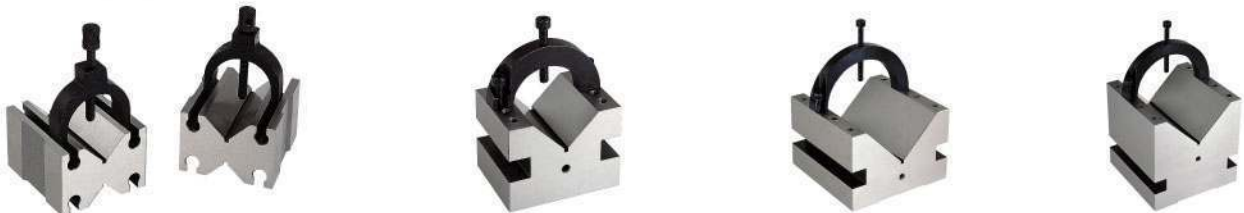
▲ 4009-34002

▲ 4009-34003

▲ 4009-34004

CODE No.	W x H x L x Pcs	Capacity	Net Weight
4009-34001	40 x 30 x 50 mm (1.57 x 1.18 x 1.96") x 2	30 mm	1.0 kg
4009-34002	50 x 40 x 50 mm (1.96 x 1.57 x 2.36") x 2	40 mm	1.5 kg
4009-34003	60 x 50 x 70 mm (2.36 x 1.86 x 2.75") x 2	50 mm	2.3 kg
4009-34004	41 x 35 x 44 mm (1.61 x 1.37 x 1.73") x 2	25 mm	1.0 kg
4009-34005	44 x 41 x 70 mm (1.73 x 1.61 x 2.75") x 2	30 mm	1.8 kg

▶ 4009-34006~4009-34011



▲ 4009-34006/34007

▲ 4009-34008/34009

▲ 4009-34010

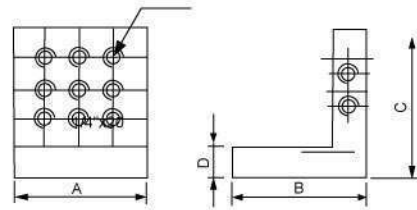
▲ 4009-34011

CODE No.	W x H x L x Pcs	Capacity	Net Weight
4009-34006	2-1/2" x 1-3/4" x 2-3/4" x 2	1-3/16	2.4 kg
4009-34007	3-1/2" x 2-3/4" x 4-7/8" x 2	1-3/8	10.0 kg
4009-34008	2-1/2" x 2" x 2-1/2" x 1	1-3/8	1.4 kg
4009-34009	4" x 3" x 3" x 1	2-1/4	4.0 kg
4009-34010	6" x 4" x 6" x 1	4-3/8	13.5 kg
4009-34011	6" x 6" x 6" x 1	4-3/8	24.0 kg

## PRECISION ANGLE PLATE

TAIWAN

▶ 4009-34013~4009-34017

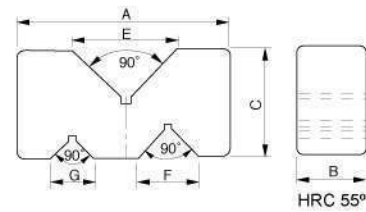
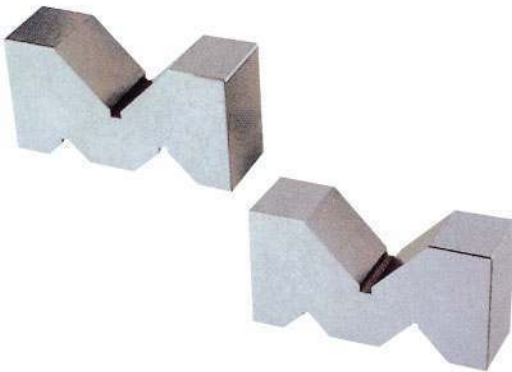


CODE No.	A	B	C	D	Net Weight
4009-34013	73	73	100	25	2.5 kg
4009-34014	100	100	100	25	3.4 kg
4009-34015	100	100	150	25	4.5 kg
4009-34016	200	120	200	40	13 kg
4009-34017	300	150	300	50	34 kg

## PRECISION V-BLOCKS

TAIWAN

▶ 4009-34021~4009-34027

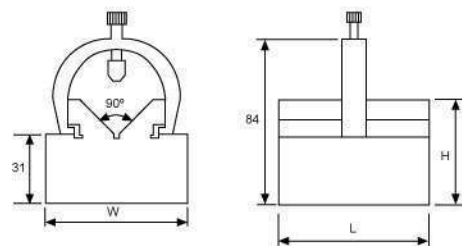
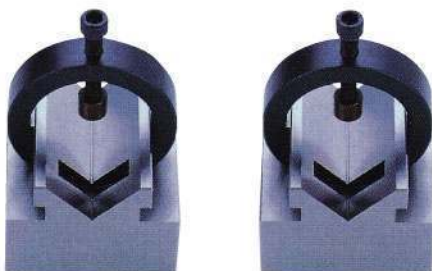


CODE No.	A	B	C	E	F	G	Net Weight	Pcs
4009-34021	50	19	24	24	17	13	0.3 kg	2
4009-34022	75	24	35	37	24	16	0.8 kg	2
4009-34023	100	33	52	50	30	20	2.1 kg	2
4009-34024	125	44	69	63	37	26	4.7 kg	2
4009-34025	150	50	80	75	45	30	7.3 kg	2
4009-34026	175	62	90	87	50	35	11.7 kg	2
4009-34027	200	70	110	100	60	40	16.3 kg	2

## PRECISION V-BLOCKS WITH CLAMP

TAIWAN

▶ 4009-34035



CODE No.	Width	Height	Length	Capacity	Net Weight
4009-34035	63	46	63	25	1.3 kg x 2

## MAGNETIC V-BLOCK ▶ 4009-46007A / 4009-46007B

TAIWAN



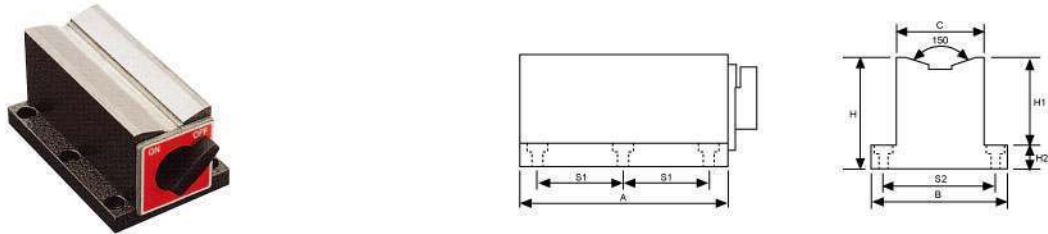
▲ 4009-46007A

▲ 4009-46007B

CODE No.	Holding Power	Applicable Diameter	Dimension			Net Weight
			B	L	H	
4009-46007A	15 kgf	50	40	70	50	1 kg x2
4009-46007B	20 kgf	80	50	100	80	3 kg x2

## MAGNETIC CLAMPING BLOCK ▶ 4009-46008

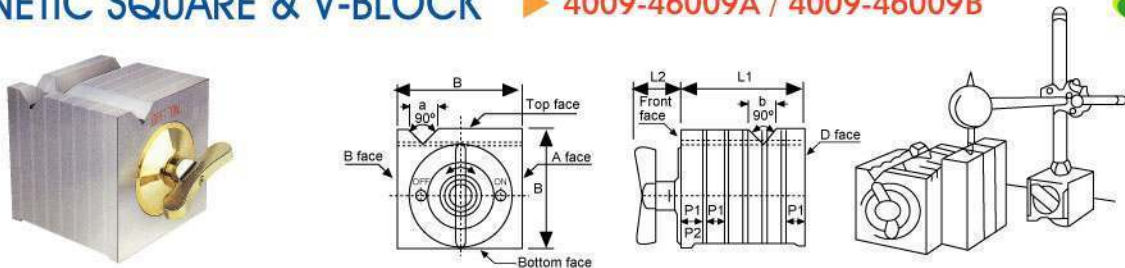
TAIWAN



CODE No.	Holding Power		Dimension								Net Weight
	V-Face	Surface	A	B	C	H	H1	H2	S1	S2	
4009-46008	110 kgf	160 kgf	118	76	50	62	50	12	48	62	2.5 kg

## MAGNETIC SQUARE & V-BLOCK ▶ 4009-46009A / 4009-46009B

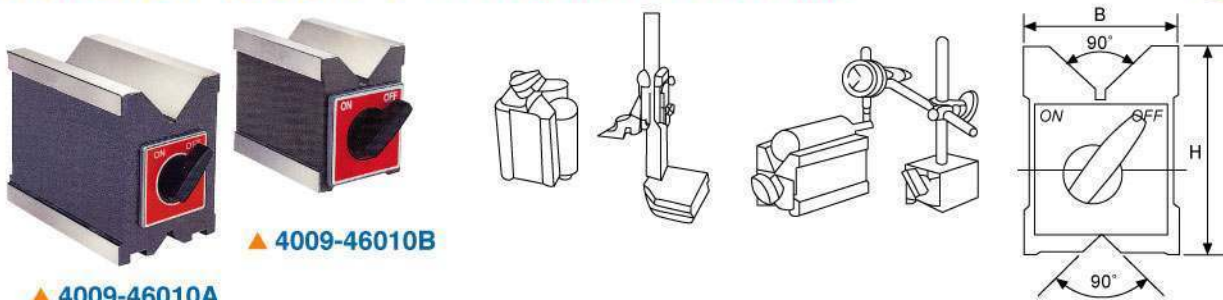
TAIWAN



CODE No.	Holding Power		Dimension						Net Weight
	V-Face	Surface	B	L	H	P1	P2		
4009-46009A	28 kgf	40 kgf	100	100	100	5	11	6.5 kg	
4009-46009B	50 kgf	140 kgf	150	150	150	6	18	24.0 kg	

## MAGNETIC V-BLOCK ▶ 4009-46010A / 4009-46010B

TAIWAN



▲ 4009-46010B

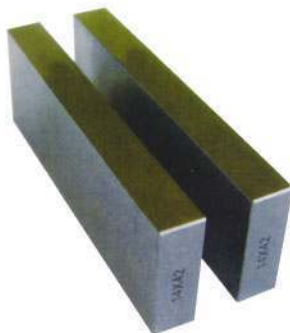
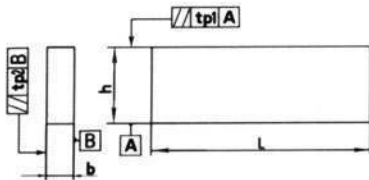
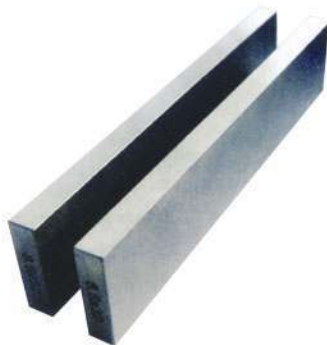
▲ 4009-46010A

CODE No.	Holding Power		Dimension			Net Weight
	V-Face	Surface	B	H	LENGTH	
4009-46010A	55 kgf	70 kgf	56	72	80	3.0 kg
4009-46010B	90 kgf	110 kgf	75	100	115	5.1 kg



## PRECISION PARALLEL SETS

▶ E881-0100~E881-1600 ▶ F881-2000~F881-2010



**MATCHED PAIRS. HIGH PRECISION MADE OF HIGH GRADE STEEL ALLOY. HARDENED AND GROUND HRC58-62**

### PRECISION PARALLEL

Code No.	h	b	l	Parallel Tolerance (tp1)	Parallel Tolerance (tp2)
E881-0100	8	2.5	63	0.006	0.004
E881-0200	10	3.2	63	0.006	0.005
E881-0300	12	4.0	63	0.008	0.005
E881-0400	16	5.0	63	0.008	0.005
E881-0500	20	6.3	63	0.009	0.006
E881-0600	12	4.0	100	0.008	0.005
E881-0700	16	5.0	100	0.008	0.005
E881-0800	20	6.3	100	0.009	0.006
E881-0900	25	8.0	100	0.009	0.006

Code No.	h	b	l	Parallel Tolerance (tp1)	Parallel Tolerance (tp2)
E881-1000	32	10.0	100	0.011	0.006
E881-1100	40	12.0	100	0.011	0.008
E881-1200	25	8.0	160	0.009	0.006
E881-1300	32	10.0	160	0.011	0.006
E881-1400	40	12.0	160	0.011	0.008
E881-1500	50	16.0	160	0.011	0.008
E881-1600	63	20.0	160	0.013	0.009

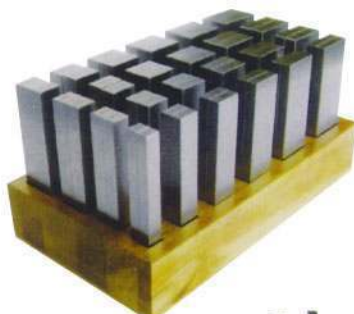
### LARGE-SIZE PRECISION PARALLEL

Code No.	h	b	l	Parallel Tolerance (tp1)	Parallel Tolerance (tp2)
F881-2000	75	75	150	0.006	0.006
F881-2010	100	75	150	0.006	0.006

### MEDIUM PRECISION PARALLEL SETS

#### 20 Pair Set-G881-2000

- Accuracy:  $\pm 0.01$  mm
- Set includes one each of (Thickness x Height)
  - 2 x (5, 10, 15, 20) mm
  - 3 x (6, 11, 16, 21) mm
  - 4 x (7, 12, 17, 22) mm
  - 5 x (8, 13, 18, 23) mm
  - 6 x (9, 14, 19, 24) mm
- Length: 100 mm, Model No. 880-12



#### 24 Pair Set-G881-2400

- Accuracy:  $\pm 0.01$  mm
- Set includes one each of (Thickness x Height)
  - 8 x (11, 16, 21, 26, 31, 36) mm Step by 5 mm
  - 10 x (13, 18, 23, 28, 33, 38) mm Step by 5 mm
  - 12 x (15, 20, 25, 30, 35, 40) mm Step by 5 mm
  - 14 x (17, 22, 27, 32, 37, 42) mm Step by 5 mm
- Length: 125 mm, Model No. 880-13  
150 mm, Model No. 880-14

#### Note!

- Individual pair can be supplied for medium precision parallels.
- Semi-finished parallels can be supplied in accordance with customer's special request.



## PRECISION PARALLEL SETS

CHINA

### ▶ A880-0100~A880-0300



Code No.	Pairs	Length	H x B (mm)	Parallelism (H)(mm)
A880-0100	12	120 mm	14x10, 16x10, 18x10, 20x10, 22x10, 24x10, 26x10, 28x10, 30x10, 32x10, 35x10, 40x10	0.005
A880-0201	14	150 mm	14x10, 16x10, 18x10, 20x10, 22x10, 24x10, 26x10, 28x10, 30x10, 32x10, 35x10, 40x10, 45x10, 50x10	0.005
A880-0202	14	150 mm	14x10, 16x10, 18x10, 20x10, 22x10, 24x10, 26x10, 28x10, 30x10, 32x10, 35x10, 40x10, 45x10, 50x10	0.004
A880-0300	9	150 mm	14x8.5, 16x8.5, 20x8.5, 24x8.5, 30x8.5, 21x8.5, 36x8.5, 40x8.5, 44x8.5	0.005

### ▶ B880-1100~B880-1300



Code No.	Pairs	Length	H x B (mm)	Parallelism (H)(mm)
B880-1100	20	100 mm	5x2, 10x2, 15x2, 20x2, 6x3, 11x3, 16x3, 28x3, 7x4, 12x4, 17x4, 22x4, 8x5, 13x5, 18x5, 23x5, 9x6, 14x6, 19x6, 24x6	0.005
B880-1200	24	125 mm	11x8, 16x8, 21x8, 26x8, 31x8, 36x8, 13x10, 18x10, 23x10, 28x10, 33x10, 38x10, 15x12, 20x12, 25x12, 30x12, 35x12, 40x12, 17x14, 22x14, 27x14, 32x14, 27x14, 42x14,	0.005
B880-1300	24	150 mm	11x8, 16x8, 21x8, 26x8, 31x8, 36x8, 13x10, 18x10, 23x10, 28x10, 33x10, 38x10, 15x12, 20x12, 25x12, 30x12, 35x12, 40x12, 17x14, 22x14, 27x14, 32x14, 27x14, 42x14,	0.005

### ▶ C880-0101~C880-0601



### DIN 6346 PRECISION PARALLEL SETS

Code No.	Pairs	Length	H x B (mm)	Accuracy
C880-0101	9	63 mm	8x2.5, 10x3.2, 12x4, 16x5, 20x6.3	IT5
		100 mm	12x4, 16x5, 20x6.3, 25x8	
C880-0201	5	100 mm	12x4, 16x5, 20x6.3, 25x8, 32x10	IT5
C880-0301	7	100 mm	12x4, 16x5, 20x6.3, 25x8	IT5
		160 mm	25x8, 32x10, 40x12	
C880-0401	4	160 mm	25x8, 32x10, 40x12, 50x16	IT5
C880-0501	5	100 mm	25x8, 32x10, 40x12	IT5
		160 mm	56x16, 63x20	
C880-0601	3	250 mm	63x20, 80x25, 100x32	IT5



## MEDIUM PRECISION PARALLEL SETS

CHINA

### ▶ M880-0301~M880-1100



Code No.	Pairs	L x B (mm)	H (mm)
M880-0301	9	150 x 8.5	14-16-20-24-30-32-36-40-44
M880-0201	14	150 x 10	14-16-18-20-22-24-26-28-30-32-35-40-45-50
M880-0202	14	150 x 5	14-16-18-20-22-24-26-28-30-32-35-40-45-50
M880-0500	8	120 x 8	12-17-22-25-28-32-36-38
M880-0600	9	100 x 4	10-14-18-22-26-30-34-38-42
M880-0700	9	160 x 4	10-14-18-22-26-30-34-38-42
M880-0800	8	160 x 8	12-17-22-25-28-32-36-38
M880-0900	8	200 x 8	17-22-26-28-32-36-38-42
M880-1000	12	120 x 10	14-16-18-20-22-24-26-28-30-32-35-40
M880-1100	10	150 x 10	14-16-18-20-22-24-26-28-30-32

## PRECISION PUNCH FORMERS

TAIWAN



**Specifications:**

**3324-5100 Punch Former**

- Max. clamping diameter in V-slot: 70 mm dia.
- Travel of V-block: 35 mm
- 24 tooth and 15+5 degree dividing disk.



**Specifications:**

**3324-5105 Punch Former**

- Max. clamping diameter in V-slot: 70 mm dia.
- Travel of V-block: 35 mm.
- Transverse of slider:  $\pm 35$  mm .
- 24 tooth and 15+5 degree dividing disk.



**Specifications:**

**3324-5120 3 Jaw chuck Punch Former**

- 3 Jaw punch former.
- 3 Jaw chuck bore: 16 mm (5/8")
- Min. / Max. clamping diameter: 2 / 70 mm



**Specifications:**

**3324-5110 Punch Former**

- Center height: 80-81 mm.
- clamping diameter in V-slot: 4-30 mm dia.
- travel of V-block: 25 mm.
- Transverse of slider:  $\pm 12.5$  mm.
- Max. radius for dress arc- convex: R48 mm / Concave-R100 mm.
- Drawing of this punch former.
- 24 tooth and 15+5 degree dividing disk.
- Formulas:
- Convex arc -  $h = H-R$
- Concave arc -  $h = H+R$
- Max. wheel diameter: 200 mm.



**Specifications:**

**3324-5115 Punch Former**

- Center height: 80-81 mm.
- clamping diameter in V-slot: 4-30 mm dia.
- travel of V-block: 25 mm .
- Transverse of slider:  $\pm 12.5$  mm.
- Max. radius for dress arc- convex : R48 mm / Concave-R100 mm.
- Max. wheel diameter: 200 mm.



**Specifications:**

**3324-5125 ER Collet Punch Former**

- 7 pcs. ER-16 collets:
- 4 / 6 / 8 / 10 / 12 / 16 / 20 mm.
- Rapidly clamping.



**Specifications:**

**3324-5130 Sine Plate for Punch Formers**

- Hardness:
- HRC 55 deg. Accuracy: < 0.005 mm.



**Specifications:**

**3324-5150 Punch Grinder**

- Max. grinding dia.: 0.5~5 mm.
- Max. grinding length: 10 mm.



**Specifications:**

**3324-5145 Punch Grinder**

- Max. O.D: 1.5~25 mm dia.
- Max. grinding length: 5~35 mm.



**Specifications:**

**3324-5155 Mortoized Punch Grinder**

- Working length: 20-120 mm
- O.D grinding length: 5-35 mm
- Grinding length (OD): 15-25 mm
- Accuracy: 0.005 mm
- 110V / 60Hz. roller drive speed: 129 rpm.
- 220V / 50Hz. roller drive speed: 108 rpm.



## END MILL GRINDING FIXTURE

TAIWAN

### ▶ 4034-2111

#### SPECIFICATION

- Grinds 2 / 3 / 4 / 6 / 8 and 12 fluted end mills and shell mills, faces only! Clearance and relief angles area built into base, Solid 2-1/2" x 4-1/2" base ground on bottom for sure contact with magnet. The product finished-black oxide.

#### FEATURES

- This fixture uses 5-C Collets, Any shank size end mill from 1/16" to 1-1/8" can be ground. Steel mill can be held with straight shank arbor. Solid positive ball stops with 15 degree spacing for fast, easy set-ups.



▲ 4034-2111

## END MILL CUTTER SHARPENER

TAIWAN

### ▶ 4034-2012

#### SPECIFICATION

- Spindle center line to base parallelism per 12" (300 mm) maximum tolerance 0.0024" (0.006 mm). Body stand concentricity-0.0012" (0.003 mm) net weight-10.89 kgs(24 lbs) features-Spindles & bushings to cover the full range of 3/16" up to 1-1/4" shank end mills are supplied. Accept cutters with diameters up to 12" and even larger with the use of "riser blocks" quickly sharpens cutters and end mills right on your tool or surface grinder. Two spindle and 4 bushings cover the full range of 3/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1" and 1-1/4" shank end mills. Accepts double end mills.



▲ 4034-2012

## 5C COLLET BLOCK SET

TAIWAN

### ▶ 4034-2015

#### FEATURES

- A simple and effective short run jig for machinist parallel on drill press / milling machine/lathes and surface grinders. square or Hex shapes as well as for cross hole drilling at 60 / 90 / 120 degrees. Made of hardened steel. Capacity-1/16" through 1-1/8". Ground to 0.0005" flatness, squareness & Parallelism. Standard nut closer and cam operated, quick action closer can be used on both the square and hex blocks.

#### SET INCLUDES

- 1 Square block.
- 1 Hex block.
- 1 Lever operated closer.
- 1 2 Nut closer.
- 1 Plastic box or wooden box (selected).



▲ 4034-2015

## VERTICAL MILLING MACHINE SPECIAL ATTACHMENTS RIGHT ANGLE ATTACHMENT

### ▶ 4004-0008~4004-0040

TAIWAN

- Included - One Shank, Mounting bolts, Main head and fitted wooden box.



CODE No.	Shank Taper
4004-0008	R8
4004-0030	ISO No.30
4004-0040	ISO No.40

## HORIZONTAL MILLING ATTACHMENT

TAIWAN

### ▶ 4004-1008~4004-1040

- Included - one main head, milling arbor, mounting bolts, arbor supporter and fitter wooden box.



CODE No.	Shank Taper
4004-1008	R8
4004-1030	ISO No.30
4004-1040	ISO No.40

## CAST IRON RAISER BLOCKS

TAIWAN

### ▶ 3505-0100~3505-0200

- This raiser block made of selected cast iron with stress relieved.
- Easily installed and remove.
- Spider and blots available as Extra Cost.



CODE No.	Size
3505-0100	100 mm (4")
3505-0160	160 mm (6")
3505-0200	200 mm (8")

## POWER TABLE FEEDER-GEAR BOX TYPE

TAIWAN

### ▶ 3503-1001~3503-1005

Patent No.79134 by Sun Chen



▲ 3503-1001



▲ 3503-1002



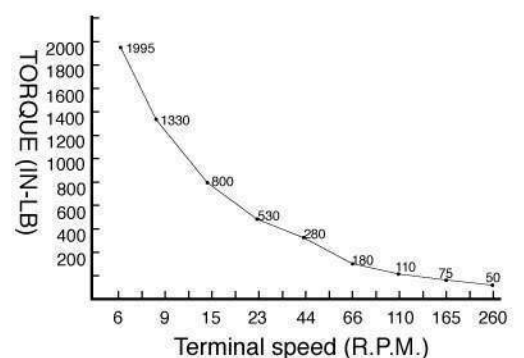
▲ 3503-1005



▲ 3503-1003

#### FEATURES:

- Gear driven design provides much more torque.
- Gear box driven by 1/2HP (0.375 kw) AC motor. More Powerful.
- Safety electrical elements to avoid motor overload.
- Easy to install.
- Gearbox builds in the safety kickoff device.
- Oil path gearbox-secures smooth driven and silence.
- For Longitudinal and cross feeder units-3503-1001 / 1002 / 1005 are 8 steps feed rate.
- 30 mm / 45 mm / 75 mm / 113 mm / 218 mm / 300 mm / 548 mm / 825 mm / 1290 mm per minute.
- Compact unit-16 kgs only. Release the engage gear then free to hand feed.
- Code No.3503-1001 and 3503-1005 for X-axis feed (Longitudinal)
- Code No.3503-1002 for Y-axis feed (cross)
- Code No.3503-1003 for Z-axis rapid-165 mm/min. net weight 11 kgs.



THE TORQUE & TERMINAL SPEED COMPARISON TABLE

## ALIGN POWER TABLE FEED



▲ 3503-1500

▲ 3503-2000

### AIR POWER DRAWBAR

- This device is easily installed, needs only 5 seconds to change the cutting tool.
- It is suitable for NC and general milling machines.
- It can be installed in any kind of machine, of which the main spindle are R-8, NT #30, #40, #50.
- Main power is air compression.
- This machine is designed with safety device controlled with solenoid valve. The power drawbar cannot be operated while the machine is running.

For Longitudinal X Axis

**A(X)** Standard equipment for longitudinal feed.



▲ 3503-2004

### AL-500S

- The ALIGN power table feed for 2V, 3V, 5V milling machine of longitudinal, knee lide and cross feed.
- Easy to install, no modification needed.
- Highest quality design and construction materials.
- To strengthened "ZYTEL GEAR", an extra unit can be attached for free of charge.
- Safe design operation stable low noise.
- Top quality. Long life span designed.

For Cross Y Axis

**B(Y)** Standard equipment for cross feed.



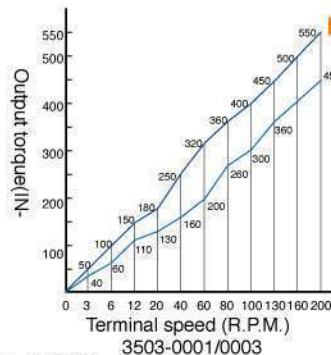
▲ 3503-2002

### AL-400S, 300S

- The ALIGN power table feed for 2V, 3V, 5V milling machine.
- Easy to install, no modification needed.
- Highest quality design and construction materials.
- Circuit panel is designed with easy replaceable insert type connectors.
- Assy-gear (nylon) clutch has built-in torque release to prevent damage to shaft and metal gear, if too much resistance is met.

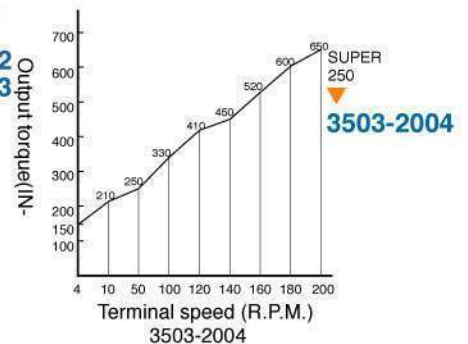
For Vertical Z Axis

**D(Z)** Standard equipment for knee lift feed.



▲ 3503-2003

▲ 3503-2002  
▲ 3503-2003



▲ 3503-2004

### AL-200S

- Application: the ALIGN power table feed for Drill/Milling machine.
- Easy to install, no modification needed.
- Highest quality design and construction.
- Circuit panel is designed for easy replacement with insert type connectors.
- Assy-gear clutch has a limit for twisting. When power feed is working and accepting tremendous obstacle, the assy-gear clutch will automatically become neutral turning in order to reduce damage.



▶ 3503-2001

## POWER DRAWBAR



### ▶ 4000-PD24~4000-PD75



#### PNEUMATIC TYPE CONTAINS

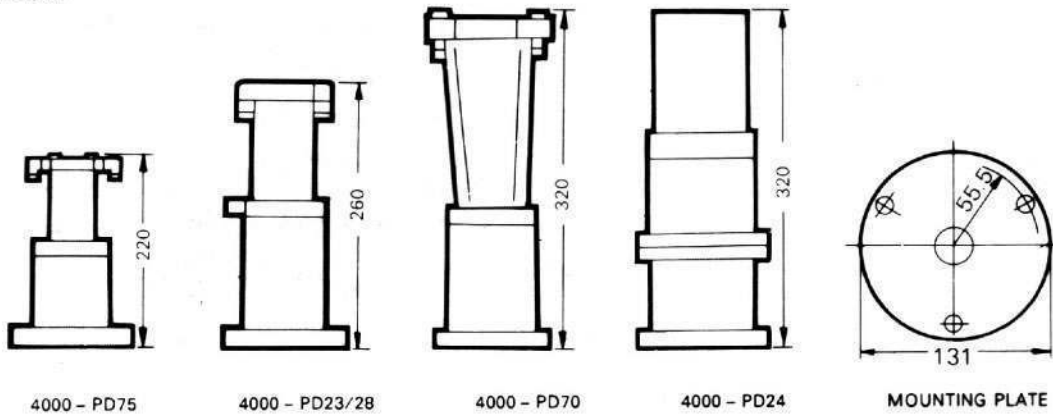
- Main power head unit.
- Power head cover.
- Pressure air inlet hose with couplings.
- Draw bar.



#### ELECTRIC TYPE CONTAINS

- Main power head unit.
- Power head cover.
- Electric box.
- Draw bars.

#### Dimension



Electric Type	Amps	No-Load	Max Torque Ft / Lbs	For Machine Taper	Net Weight
4000-PD24	7.5 AMP	2100 rpm	240	ISO40 / 50	12.7 kgs / 28 Lbs

Pneumatic Type	For Machine Taper	Air Pressurer Max	Max Torque Ft / Lbs	No-Load	Net Weight
4000-PD70	ISO # 50	115 PSI / 8 kg/cm <sup>2</sup>	700	5000 rpm	15.1 kg
4000-PD23	ISO # 50 / 40	90 PSI / 6.3 kg/cm <sup>2</sup>	230	7000 rpm	11.4 kg
4000-PD75	ISO # 30 / R8	90 PSI / 6.3 kg/cm <sup>2</sup>	75	8000 rpm	8 kg

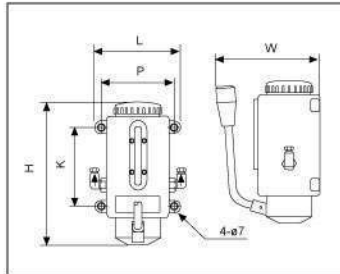
## ROCK TYPE / PULL TYPE OILERS

TAIWAN

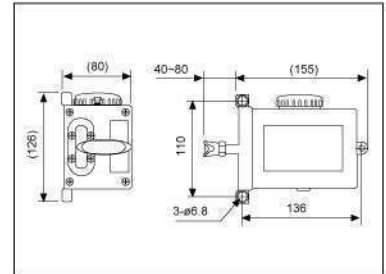
▶ 3333-0001~3333-0003



▲ 3333-0001



▲ 3333-0003



CODE No.	Mfgr No.	Output Volumn-cc/ey	Max. Discharge Pressure-kgf/cm <sup>2</sup>	Reservoir Capacity	Effective Capacity	Output Bore	Direction of Bore	Dimension	Net Weight	
									kg	Lbs
3333-0001	YML-6	6	15	350 cc	250 cc	4 or 6 mm dia.	left or right	100 x 130 x 170	1.2	2.645
3333-0002	YML-8	6	15	350 cc	250 cc	4 or 6 mm dia.	up or down	120 x 150 x 200	1.4	3.086
3333-0003	YMT-8	6	15	350 cc	250 cc	4 or 6 mm dia.	up or down	120 x 150 x 200	0.9	1.984

## AUTOMATIC MANUAL TYPE LUBRICATOR

TAIWAN

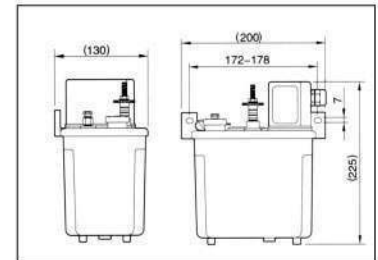
▶ 3333-0004~3333-0005



▲ 3333-0004

▲ 3333-0005

- Intermittent time: 3 / 5 / 10 / 15 / 30 / 60 minutes, at 110 or 220 Volts. 5 watts.
- 3 kgf/cm<sup>2</sup> discharge pressure.
- Output volume: 3 to 6 cc.
- Reservoir capacity: 2 Liters.
- Both lubricataor net weight: 1.5 Kgs (3.31 Lbs).



CODE No.		
3333-0004	YESB	with Float Switch - Capacity of output -0.3 Amp.
3333-0005	YESA	without float switch

## AUTOMATIC RESISTANCE CYCLE LUBRICATOR

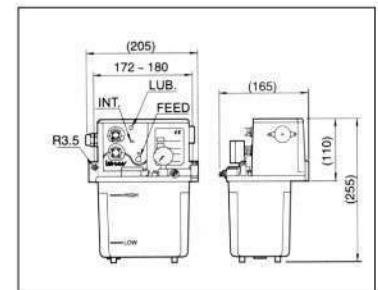
TAIWAN

▶ 3333-0032~3333-0035



▲ 3333-0032

- 80 / 100 Watter / 3 amper at 110 or 220 Voltage-single phase.
- Intermittent Time 0-60 minutes.
- Output bore at 4 mm or 6 mm diameter, Max. output pressure reach 7 kgf/cm<sup>2</sup>.
- 6 or 15 cc/min. output volume.
- With Float switch.
- Pressure switch: optional.



CODE No.	Mfgr No.	
3333-0032	YET-E-2L	2 liter transparaent oil tank-2.6kgs (5.73 Lbs)
3333-0033	YET-N-2L	2 Liter transparent oil tank with Alarm beeper - Net weight-3.2 kgs (7.053 Lbs)
3333-0034	YET-E-3L	3 Liter transparent oil tanks -2.9 kgs (6.392 Lbs)
3333-0034	YET-N-4L	4 liter transparent oil tank with alarm beeper -Net weight-3.6kg (7.934 Lbs)
3333-0035	YET-B-4L	4 liter aluminum alloy oil tank with alarm beeper-Net weight-3.6kg (7.933 Lbs)

## MICRO-COMPUTERIZED RESIST LUBRICATORS

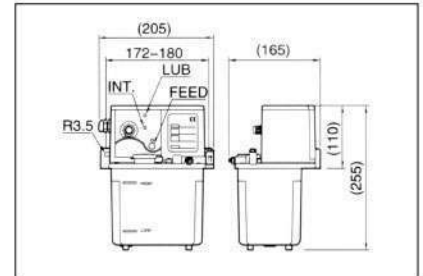
TAIWAN

▶ 3333-0042-3333-0044



▲ 3333-0042

- 80 or 100 Watts at 3 amp output, on 110 or 220 volts-single phase.
- Lubricating time 1~999 second and inter-mittent time - 1~999 minutes.
- Output bore at 4 mm or 6 mm diameter.
- Max. output pressure reach: 7 kgf/cm<sup>2</sup>
- Output volume: 200 cc per minute.
- Built in Floating switch and alarm beeper.



CODE No.	Mfgr No.	
3333-0042	YET-A1-2L	2 Liter transpaarent oil tank. net weight- 2.7 kgs (5.951 Lbs)
3333-0043	YET-A1-3L	3 Liter transparent oil tank, net weight- 3 kgs (6.604 Lbs)
3333-0044	YET-A1-4L	4 Liter transparent oil tank, net weight- 3.3 kgs (7.273 Lbs)

## AUTOMATIC RESIST LUBRICATOR

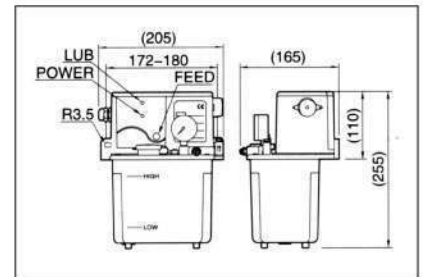
TAIWAN

▶ 3333-0052~3333-0055



▲ 3333-0052

- 80 or 100 watts at 3 amps output , on 110 or 220 Volt-single phase
- Lubricating time and intermittent time - connect with PLC contolling system.
- Max. output pressure reach 5 kgf/cm<sup>2</sup>.
- Output volume aat 200 cc/min.
- Built in floating switch.



CODE No.	Mfgr No.	
3333-0052	YET-C1/F1-2L	2 Liter transprent oil tank with Alarm beeper function-net weight 2.6 kg (5.73 Lbs)
3333-0053	YET-C1/F1-3L	3 Liter transprent oil tank with Alarm beeper function, with 2.1 kgf/cm <sup>2</sup> pressure switch net weight-2.8kg (6.171 Lbs)
3333-0054	YET-C1/F1-4L	4-Liter transprent oil tank-net weight 3.1 kg (6.834 Lbs)
3333-0055	YET-C1/F1-4L	4 Liter aluminum alloy oil tank with 2.1kgf/cm <sup>2</sup> pressure switch net weight -3.5 kgs (7.714 Lbs)

## AUTOMATIC RESIST LUBRICATOR

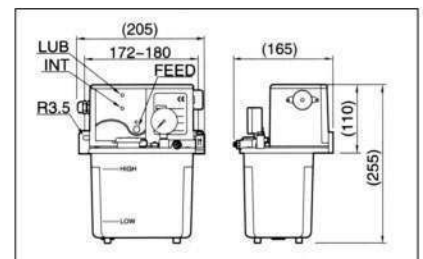
TAIWAN

▶ 3333-0062~3333-0064



▲ 3333-0062

- Output bore at 4 or 6 mm diameter.
- Max. output pressure reach 5 kgf/cm<sup>2</sup>
- Built in floating switch and alarm beeper.
- Output volumn- 200 cc/min.
- Automataic resist Lubricator
- 80 or 100 watts at 3 amps output on 110 or 220 volts-single phase.
- 2 and 3 Liter tank lubricator:  
Lubricating time - 3 / 5 / 15 / 20 / 35 / 40 / 50 minutes  
Intermitten time - 5 / 10 / 15 / 20 / 35 / 40 / 50 / 60 / 70 / 90 / 100 second.
- 4 Liter Tank lubricator:  
Lubricating time - 2 / 3 / 4 / 5 / 6 / 8 / 10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 60 mintues.  
Intermitten time - 5 / 10 / 15 / 20 / 35 / 40 / 50 / 60 / 70 / 90 / 100 / 110 / 120 second.



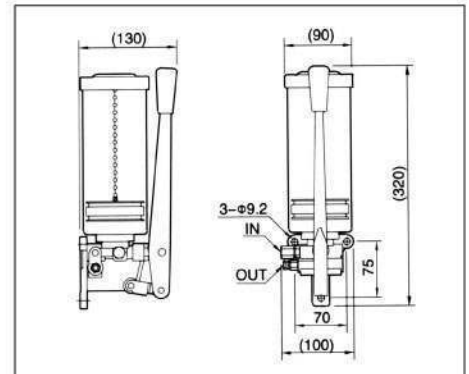
CODE No.	Mfgr No.	
3333-0062	YET-D1/M1-2L	2 Liter transprent oil tank -net weight- 2.7kgs (5.951 Lbs)
3333-0063	YET-D1/M1-3L	3 Liter transprent oil tank- with 2.1 kgf/cm <sup>2</sup> pressure switch-net weight- 2.9 kgs (6.392 Lbs)
3333-0064	YET-D1/M1-4L	4 Liter transprent oil tanks -net weight 3.2 Kgs (7.053 Lbs)
3333-0064	YET-D1/M1-4L	4 Liter aluminum alloy oil tanks with 2.1 kgf/cm <sup>2</sup> pressure switch-net weight- 3.6kgs (7.933 Lbs)

## MICRO-COMPUTERIZED GREASE LUBRICATOR



### ▶ 3333-0800

- Manual Grease Oiler
- Max. output pressure reach 100kgf/cm<sup>2</sup>
- Output volume - 2cc/min.
- output bore-6mm dia.



CODE No.	Mfgr No.	
3333-0800	YGL-T	800 cc tank.

### ▶ 3333-2080~3333-3200



CODE No.	Mfgr No.	Volts	Power Watts.	Lubricating Time-second	Output Bore	Max. Output Pressure	Output Volumn	Reservoir Cap.	Net Weight	
									kg	Lbs
3333-2080	YGL-A080	110 or 220 Volts-single phase	25 watts	1-999 second	PT 1/8 or PT 1/4	80-100 Kgf/cm <sup>2</sup>	13 cc/min	800cc	3.7	8.15
3333-2120	YGL-A120			1-180 second				1200cc	4.6	10.14
3333-2200	YGL-A200			Inter-mittent Time-min.				2000cc	5	11.02
3333-3080	YGL-R080			800cc				3.7	8.15	
3333-3120	YGL-R120			1200cc				4.6	10.14	
3333-3200	YGL-R200			2000cc				5	11.02	

## AUTOMATIC GREASE LUBRICATOR



### ▶ 3333-0908~3333-1920



CODE No.	Mfgr No.	Volts	Power Watts.	Lubricating Time-Second	Output Bore	Max. Output Pressure	Output Volumn	Reservoir Cap.	Net Weight	
									Inter-Mittent Time-Min.	kg
3333-0908	YGL-C080	110 or 220 Volts-single phase	25 watts	Connect with PLC control system	PT 1/8 or PT 1/4	80-100 Kgf/cm <sup>2</sup>	13 cc/min	800cc	3.6	7.92
3333-0912	YGL-C120							1200cc	4.4	9.68
3333-0920	YGL-C200							2000cc	4.9	10.78
3333-1908	YGL-D080	DC-24V						800cc	3.4	7.48
3333-1912	YGL-D120							1200cc	4.3	9.46
3333-1920	YGL-D200							2000cc	4.7	10.34

## LUBRICATIONS & COOLANT SYSTEMS AND ELEMENTS



### ▶ 5301-8100~5301-1290



▲ 5301-8100

#### IMMERSION PUMP

- Quality cast iron constructors.
- Special anti-electrical "shock" feature.
- Totally enclosed induction motors.
- Fully sealed permanent lubricated bearings.
- Plastic Impeller, larger pump with Die-Cast Aluminum impeller.
- Meet International Standard-CE, UL, CSA, ISO9001 and IP-54 approval

CODE No.	Mfge No.	Motor	Max. Flow Cap. Discharge Bore		Height	Lifting heigh	Net Weight
			Liter / min.	Pipe thread			
5301-8100	MC-8100	1/8 HP	33	3/8"	100 mm / 4"	5.2 M / 17 Ft	5.6 kgs
5301-8101	MC-8100	1/8 HP	38	1/2"	100 mm / 4"	5 M / 16.5 Ft	5.6 kgs
5301-8130	MC-8130	1/8 HP	33	3/8"	134 mm / 5"	5.2 M / 17 Ft	5.9 kgs
5301-8131	MC-8130	1/8 HP	38	1/2"	134 mm / 5"	5 M / 16.5 Ft	5.9 kgs
5301-8150	MC-8150	1/8 HP	33	3/8"	150 mm / 6"	5.2 M / 17 Ft	6.2 kgs
5301-8151	MC-8150	1/8 HP	38	1/2"	150 mm / 6"	5 M / 16.5 Ft	6.2 kgs
5301-8180	MC-8180	1/8 HP	33	3/8"	180 mm / 7"	5.2 M / 17 Ft	6.6 kgs
5301-8181	MC-8180	1/8 HP	38	1/2"	180 mm / 7"	5 M / 16.5 Ft	6.6 kgs
5301-8220	MC-8220	1/8 HP	33	3/8"	220 mm / 8.5"	5.2 M / 17 Ft	7 kgs
5301-8221	MC-8220	1/8 HP	38	1/2"	220 mm / 8.5"	5 M / 16.5 Ft	7 kgs
5301-6150	MC-6150	1/6 HP	35	3/8"	150 mm / 6"	5.4 M / 17.7 Ft	6.7 kgs
5301-6151	MC-6150	1/6 HP	43	1/2"	150 mm / 6"	5.3 M / 17.4 Ft	6.7 kgs
5301-6180	MC-6180	1/6 HP	35	3/8"	180 mm / 7"	5.4 M / 17.7 Ft	7.1 kgs
5301-6181	MC-6180	1/6 HP	43	1/2"	180 mm / 7"	5.3 M / 17.4 Ft	7.1 kgs
5301-6220	MC-6220	1/6 HP	35	3/8"	220 mm / 8.5"	5.4 M / 17.7 Ft	7.5 kgs
5301-6221	MC-6220	1/6 HP	43	1/2"	220 mm / 8.5"	5.3 M / 17.4 Ft	7.5 kgs
5301-4180	MC-4180	1/4 HP	70	1/2"	180 mm / 7"	9.6 M / 31.5 Ft	14.9 kgs
5301-4181	MC-4180	1/4 HP	85	3/4"	180 mm / 7"	9.3 M / 30.5 Ft	14.9 kgs
5301-4220	MC-4220	1/4 HP	70	1/2"	220 mm / 8.5"	9.6 M / 31.5 Ft	15.1 kgs
5301-4221	MC-4220	1/4 HP	85	3/4"	220 mm / 8.5"	9.3 M / 30.5 Ft	15.1 kgs
5301-4270	MC-4270	1/4 HP	70	1/2"	270 mm / 10.5"	9.6 M / 31.5 Ft	15.3 kgs
5301-4271	MC-4270	1/4 HP	85	3/4"	270 mm / 10.5"	9.3 M / 30.5 Ft	15.3 kgs
5301-2180	MC-2180	1/2 HP	137	1"	180 mm / 7"	14.8 M / 48.6 Ft	19 kgs
5301-2240	MC-2240	1/2 HP	137	1"	240 mm / 9"	14.8 M / 48.6 Ft	19.5 kgs
5301-2290	MC-2290	1/2 HP	137	1"	290 mm / 11.4"	14.8 M / 48.6 Ft	20 kgs
5301-2291	MC-2290	3/4 HP	170	1"	290 mm / 11.4"	17.5 M / 57.4 Ft	23 kgs
5301-1290	MC-1290	1 HP	189	1"	290 mm / 11.4"	18.8 M / 61.7 Ft	24 kgs

## SUCTION PUMP



### ▶ 5301-8000~5301-1000

- Same features and constructor as Immersion pump.



▲ 5301-8000

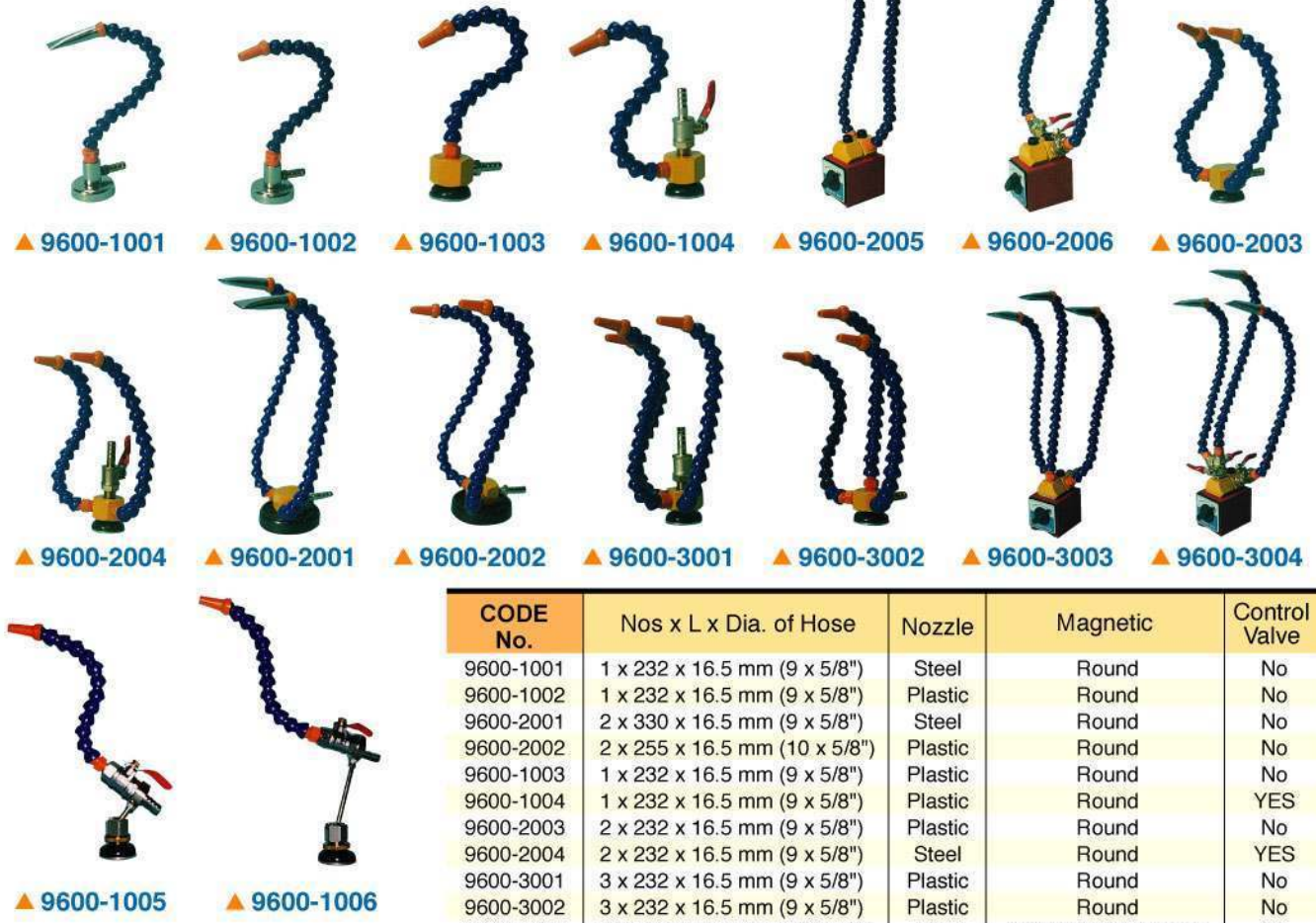
CODE No.	Mfge No.	Motor	Max. Flow Cap. Discharge Bore		Height	Lifting Heigh	Net Weight
			Liter / min.	Pipe thread			
5301-8000	MC-8000	1/8 HP	21	3/8"	35 mm	5 M / 16.4 Ft	6.5 kgs
5301-8001	MC-8000	1/8 HP	23	1/2"	35 mm	5 M / 16.4 Ft	6.5 kgs
5301-4000	MC-4000	1/4 HP	56	1/2"	55 mm	8.6 M / 28 Ft	15.5 kgs
5301-4001	MC-4000	1/4 HP	72	3/4"	55 mm	8.6 M / 28 Ft	15.5 kgs
5301-2000	MC-2000	1/2 HP-3	120	1"	72 mm	16.3 M / 54 Ft	21 kgs
5301-0000	MC-A000	3/4 HP-3	145	1"	72 mm	18 M / 59 Ft	22 kgs
5301-1000	MC-1000	1 HP-3	180	1"	75 mm	22.5 M / 74 Ft	28 kgs



## MIST KITS ▶ 9600-1001~9600-1006

TAIWAN

- Square or Round MAGNETIC BASE MOUNTED TYPE.
- With 1 / 2 / 3 flexible-universal plastic hose and steel or plastic nozzle.



CODE No.	Nos x L x Dia. of Hose	Nozzle	Magnetic	Control Valve
9600-1001	1 x 232 x 16.5 mm (9 x 5/8")	Steel	Round	No
9600-1002	1 x 232 x 16.5 mm (9 x 5/8")	Plastic	Round	No
9600-2001	2 x 330 x 16.5 mm (9 x 5/8")	Steel	Round	No
9600-2002	2 x 255 x 16.5 mm (10 x 5/8")	Plastic	Round	No
9600-1003	1 x 232 x 16.5 mm (9 x 5/8")	Plastic	Round	No
9600-1004	1 x 232 x 16.5 mm (9 x 5/8")	Plastic	Round	YES
9600-2003	2 x 232 x 16.5 mm (9 x 5/8")	Plastic	Round	No
9600-2004	2 x 232 x 16.5 mm (9 x 5/8")	Steel	Round	YES
9600-3001	3 x 232 x 16.5 mm (9 x 5/8")	Plastic	Round	No
9600-3002	3 x 232 x 16.5 mm (9 x 5/8")	Plastic	Round	No
9600-2005	2 x 330 x 16.5 mm (12 x 5/8")	Steel	SQ-65 x 50 x 55 mm	No
9600-2006	2 x 330 x 16.5 mm (12 x 5/8")	Steel	SQ-65 x 50 x 55 mm	YES
9600-3003	3 x 330 x 16.5 mm (12 x 5/8")	Steel	SQ-65 x 50 x 55 mm	No
9600-3004	3 x 330 x 16.5 mm (12 x 5/8")	Steel	SQ-65 x 50 x 55 mm	Yes
9600-1005	1 x 195 x 16.5 mm (7 x 5/8")	Plastic	Round-swivel arm	Yes
9600-1006	1 x 195 x 16.5 mm (7 x 5/8")	Plastic	Round-long swivel arm	Yes

## MIST KITS ▶ 9601-1001~9601-1006

TAIWAN

- Round Magnetic Base
- Rubber pressure Hose with nozzle or straight steel nozzle.
- With Male pipe thread fittings
- With Swivel base



CODE No.	Hose Material	Nose OD x Length	Magnetic Base	Control Valve
9601-1001	Rubber	7 x 16.5 mm	Round	Yes
9601-1002	Rubber	7 x 16.5 mm	Round-long	Yes
9601-1003	Steel		Round	Yes
9601-1004	Steel		Round-long	Yes
9601-1005	Steel		Round	No
9601-1006	Steel		Round-long	No

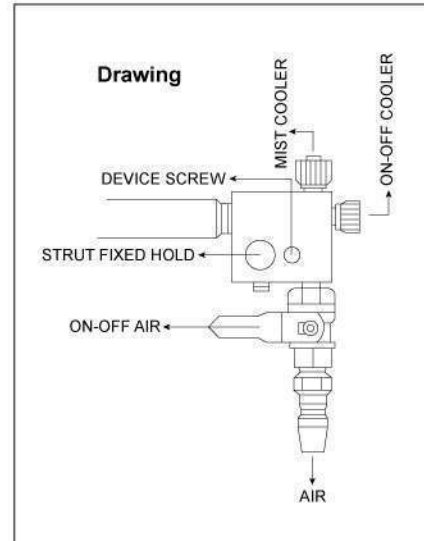
## OIL SKIMMER

TAIWAN

### ▶ 5301-7701~5301-7705

#### MISTING UNITS

- Units are designed to be used with customer's own tank.
- Line mounted air / coolant control valve is easily accessible to the operator.



CODE No.	Mfg No.	Main Pole Length	Magnetic Base	Net Weight
5301-7701	TCT-500	500 mm	No	0.72 kgs
5301-7702	TCT-250	250 mm	No	0.46 kgs
5301-7703	TCTB-500	500 mm	Yes	1.7 kgs
5301-7704	TCTL-500	480 mm	No	0.8 kgs
5301-7705	TCTL-550B	480 mm	Yes	1.7 kgs

## SPINDLE CLEANING TAPER WIPER MADE OF LAMB-SKIN

TAIWAN

### ▶ 3501-3030~3501-3064

- Maintains spindle accuracy and contact.
- Prevention of static electricity and extened spindle life.
- Remark 3501-4041 / 3501-3031 / 3501-3051 are with additional Lamp-skins strips.



CODE No.	Mfg No.	Magnetic Base	Net Weight
3501-3030	W-30	#30	0.05 kgs
3501-3040	W-40	#40	0.06 kgs
3501-3050	W-50	#50	0.13 kgs
3501-3031	W-30P	#30	0.06 kgs
3501-4041	W-40P	#40	0.07 kgs
3501-3051	W-50P	#50	0.16 kgs
3501-3063	W-63AP	HSK63A	0.08 kgs
3501-3052	W-50HP	HSK50H	0.08 kgs
3501-3064	W-63H	HSK63H	0.08 kgs

## FLOOD TYPE COOLANT PUMPS

TAIWAN



▲ 5300-1001

- Tank Capacity: 1 Gallon.
- Coolant pump motor: 1/16 HP
- With 1/2" (13 mm) diameter neoprene hose.
- 1/4" (6 mm) diameter flexible metal flush nozzle with flow control.



▲ 5300-1002

- Tank Capacity: 2 Gallon
- Coolant pump motor: 1/8 HP
- With 1/2" (13 mm) diameter neoprene hose
- With metal flexible flush nozzle with flow control valve.
- 7 ft electrical cord and push button switch



▲ 5300-1326,1425

- Tank Capacity:  
5300-1326 - 3.25 Gallon.  
5300-1425 - 4.25 Gallon.
- Coolant pump motor: 1/8 HP
- With neoprene hose.
- With modular coolant hose.
- With electrical cord and push button switch.



▲ 5300-1005

- Tank Capacity: 5 Gallon
- Coolant pump motor: 1/8 HP
- Neoprene hose.
- Metal flexible nozzle with flow control valve.



▲ 5300-1010

- Tank Capacity: 10 Gallon
- Coolant pump motor: 1/8 HP
- With neoprene hose.
- With metal flexible flush nozzle with control valve.

## ALIGN VACUUM CLEANER

AUTO-CORD REEL FUNCTION INCLUDED PACKAGE ACCESSORIES

TAIWAN



▲ CE-2020 / CE-2023

- Voltage: 110V-240V
- Power consumption: 1000 / 700 W
- Suction efficiency: 180 W
- Motor: 1 Motor 2 Stage
- Capacity: 20 / 23 L
- Standard accessories: ø32 (B)
- G.W.: 8/9 Kgs
- Packing size: 330 x 340 x 670 mm



▲ AMT-10.0

- Voltage: 110V-240V
- Power consumption: 1000 W
- Suction efficiency: 210 W
- Motor: 1 Motor 2 Stage
- Capacity: 40 L
- Standard accessories: ø32 (B)
- G.W.: 21 Kgs
- Packing size: 405 x 405 x 730 mm



▲ SPCE-1040 / SPCE-1060

- Voltage: 110V-240V
- Power consumption: 2000 W
- Suction efficiency: 300 W
- Motor: 2 Motor 2 Stage
- Capacity: 40 / 60 L
- Standard accessories: ø32 (B)
- G.W.: 25 / 27 Kgs
- Packing size: 405 x 405 x 780 / 890 mm

## VERINER CALIPER

CHINA

### ▶ VC-0150~VC-0201



CODE No.	Mfg. Code	Range	Reading	Execution
VC-0150	J1121-01	150 mm or 6"	0.02 mm or 0.001"	Fine adjustment
VC-0200	J1123-01	200 mm or 8"	0.02 mm or 0.001"	Fine adjustment
VC-0300	J1125-01	300 mm or 12"	0.02 mm or 0.001"	Fine adjustment
VC-0151	J1141-01	150 mm or 6"		self locking
VC-0201	J1143-02	200 mm or 8"		self locking

- Remarks Add up -"B" Stainless steel .
- Add up "D" Dual reading (mm/inch)

## DIAL CALIPER

CHINA

### ▶ DDC-0100~DDC-0301



CODE No.	Mfg. Code	Range	Reading	Execution
DDC-0100	J1201-01	100 mm or 4"	0.02 mm or 0.001"	Intergrate dial
DDC-0150	J1201-02	150 mm or 6"	0.02 mm or 0.001"	Intergrate dial
DDC-0200	J1201-03	200 mm or 8"	0.02 mm or 0.001"	Intergrate dial
DDC-0300	J1201-04	300 mm or 12"	0.02 mm or 0.001"	Intergrate dial
DDC-0101	J1201B-01	100 mm or 4"	0.02 mm or 0.001"	
DDC-0151	J1201B-02	150 mm or 6"	0.02 mm or 0.001"	
DDC-0201	J1201B-03	200 mm or 8"	0.02 mm or 0.001"	
DDC-0301	J1201B-04	300 mm or 12"	0.02 mm or 0.001"	

- Reamrk - The Standard - made by carbon steel.
- Add up - "B" as optional - Stainless steel.

## DIGITAL CALIPERS

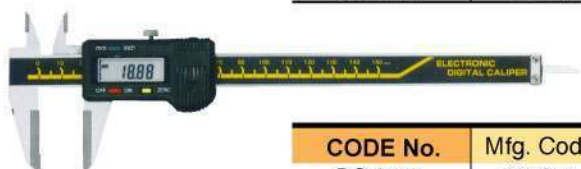
TAIWAN

### ▶ DC-0150~DC-0300      ▶ DC-0151~DC-0301

- Manual power on/off. MM/Inch system interchange at any position.
- Zero setting at any position.
- 4 ways measurement.



CODE No.	Mfg. Code	Range	Resolution	Execution	Function
DC-0150	101-101	150 mm / 6"	0.01 mm / 0.0005"	Veriner - digital	Data output
DC-0200	101-102	200 mm / 8"	0.01 mm / 0.0005"	Veriner - digital	Data output
DC-0300	101-103	300 mm / 12"	0.01 mm / 0.0005"	Veriner - digital	Data output



CODE No.	Mfg. Code	Range	Resolution	Execution	Function
DC-0151	111-251	150 mm / 6"	0.01 mm / 0.0005"	Carbide tipped face	Data output
DC-0201	111-252	200 mm / 8"	0.01 mm / 0.0005"	Carbide tipped face	Data output
DC-0301	111-253	300 mm / 12"	0.01 mm / 0.0005"	Carbide tipped face	Data output

## DIGITAL CALIPERS

TAIWAN

### ▶ DC-0152~DC-0154

- Manual power on/off. MM/Inch system interchange at any position.
- Zero setting at any position.
- 4 ways measurement.

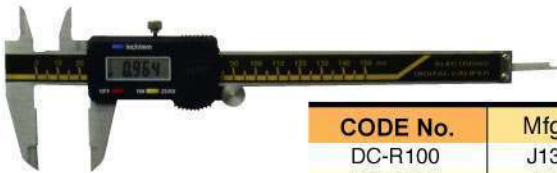


CODE No.	Mfg. Code	Range	Resolution	Execution	Function
DC-0152		150 mm / 6"	0.01 mm / 0.0005"	Moisture-proof	
DC-0153		150 mm / 6"	0.01 mm / 0.0005"	Moisture-proof	
DC-0154		150 mm / 6"	0.01 mm / 0.0005"	Carbide tipped face	

## DIGITAL CALIPERS

TAIWAN

### ▶ DC-R100~DC-R500



CODE No.	Mfg. Code	Range	Resolution	Execution
DC-R100	J1302B-01	100 mm / 4"	0.01 mm / 0.0005"	Roll Wheel
DC-R150	J1302B-02	150 mm / 6"	0.01 mm / 0.0005"	Roll Wheel
DC-R200	J1302B-03	200 mm / 8"	0.01 mm / 0.0005"	Roll Wheel
DC-R300	J1302B-04	300 mm / 12"	0.01 mm / 0.0005"	Roll Wheel
DC-R500	J1302B-05	500 mm / 20"	0.01 mm / 0.0005"	Roll Wheel

### ▶ DC-P100~DC-P300



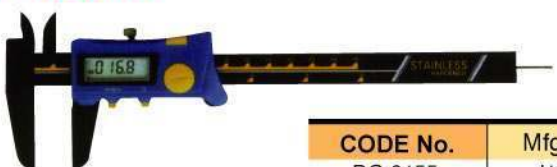
CODE No.	Mfg. Code	Range	Resolution	Execution
DC-P100	J1314-01	100 mm / 4"	0.01 mm / 0.0005"	Point Jaw
DC-P150	J1314-02	150 mm / 6"	0.01 mm / 0.0005"	Point Jaw
DC-P200	J1314-03	200 mm / 8"	0.01 mm / 0.0005"	Point Jaw
DC-P300	J1314-04	300 mm / 12"	0.01 mm / 0.0005"	Point Jaw

### ▶ DC-0156~DC-0301



CODE No.	Mfg. Code	Range	Resolution	Execution
DC-0156	J1315-01	150 mm / 6"	0.01 mm / 0.0005"	Moisture-proof
DC-0202	J1315-02	200 mm / 8"	0.01 mm / 0.0005"	Moisture-proof
DC-0301	J1315-03	300 mm / 12"	0.01 mm / 0.0005"	Moisture-proof

### ▶ DC-0155



CODE No.	Mfg. Code	Range	Resolution	Execution
DC-0155	J1316-01	150 mm / 6"	0.01 mm / 0.0005"	Carbon fiber

## OUT-SIDE MICROMETER

CHINA

▶ MM-0025~MM-1720



CODE No.	Mfg. Code	Range	Reading accuracy
MM-0025	212-1012	0-25 mm or 0-1"	0.01 mm or 0.001"
MM-2550	212-1022	25-50 mm or 1-2"	0.01 mm or 0.001"
MM-5075	212-1032	50-75 mm or 2-3"	0.01 mm or 0.001"
MM-7510	212-1042	75-100 mm or 3-4"	0.01 mm or 0.001"
MM-1012	212-1052	100-125 mm or 4-5"	0.01 mm or 0.001"
MM-1215	212-1062	125-150 mm or 5-6"	0.01 mm or 0.001"
MM-1517	212-1072	150-175 mm or 6-7"	0.01 mm or 0.001"
MM-1720	212-1082	175-200 mm or 7-8"	0.01 mm or 0.001"

## DIGITAL OUT-SIDE MICROMETER

CHINA

▶ DMC-0025~DMC-1720

- High resolution mechanical digit counter.
- Carbide measuring face.
- Ratchet friction thimble.



CODE No.	Mfg. Code	Range Metric or Imperial	Resolution Metric or Imperial	Accuracy
DMC-0025	124-01-620	0-25 mm or 0-1"	0.001 mm or 0.0001"	0.004 mm
DMC-2550	124-02-620	25-50 mm or 1-2"	0.001 mm or 0.0001"	0.004 mm
DMC-5075	124-03-620	50-75 mm or 2-3"	0.001 mm or 0.0001"	0.005 mm
DMC-7510	124-04-620	75-100 mm or 3-4"	0.001 mm or 0.0001"	0.005 mm
DMC-1012	124-05-620	100-125 mm or 4-5"	0.001 mm or 0.0001"	0.006 mm
DMC-1215	124-06-620	125-150 mm or 5-6"	0.001 mm or 0.0001"	0.006 mm
DMC-1517	126-07-620	150-175 mm or 6-7"	0.001 mm or 0.0001"	0.007 mm
DMC-1720	124-08-620	175-200 mm or 7-8"	0.001 mm or 0.0001"	0.007 mm

## ELECTRONIC DIGITAL OUTSIDE MICROMETER

CHINA

▶ EDMC-0025~EDMC-7510

- Auto power on/off.
- mm / Inch interchange at any position.
- Zero setting at any position.
- With Data holding/display predetermination functions.



CODE No.	Mfg. Code	Range	Resolution	Executions
EDMC-0025	211-101	0-25 mm / 0"-1"	0.001 mm / 0.00005"	
EDMC-2550	211-102	25-50 mm / 1"-2"	0.001 mm / 0.00005"	
EDMC-5075	211-103	50-75 mm / 2"-3"	0.001 mm / 0.00005"	
EDMC-7510	211-104	75-100 mm / 3"-4"	0.001 mm / 0.00005"	

## INSIDE MICROMETER

CHINA

▶ IM-0530~IM7510



CODE No.	Mfg. Code	Range	Reading accuracy
IM-0530	220A-1142	5-30mm or 0.2-1.2"	0.01 mm or 0.001"
IM-2550	220A-1022	25-50mm or 1-2"	0.01 mm or 0.001"
IM-5075	220A-1032	50-75mm or 2-3"	0.01 mm or 0.001"
IM-7510	220A-1042	75-100mm or 3-4"	0.01 mm or 0.001"

## TUBE MICROMETER

CHINA

▶ TM-0025~DTM-0025



CODE No.	Mfg. Code	Range	Reading	Execution
TM-0025	250-1012	0-25 mm	0.01 mm	
TM-0026	257-1012	0-25 mm	0.01 mm	
DTM-0025	252-0025	0-25 mm	0.01 mm	Digit

## HEIGHT GAUGES

CHINA

▶ VHG-0200~VHG-1000  
DHG-0150~DHG-0300



▲ VHG

▲ DHG

CODE No.	Mfg. Code	Range	Resolution	Accuracy	Execution
VHG-0200	491-14-000	0-200 mm	0.02 mm	0.03 mm	Vernier
VHG-0300	491-15-000	0-300 mm	0.02 mm	0.04 mm	Vernier
VHG-0500	491-16-000	0-500 mm	0.02 mm	0.05 mm	Vernier
VHG-0600	491-40-000	0-600 mm	0.02 mm	0.07 mm	Vernier
VHG-1000	491-60-000	0-1000 mm	0.02 mm	0.07 mm	Vernier

CODE No.	Mfg. Code	Range	Resolution	Accuracy	Execution
DHG-0150	492-13-500	0-150 mm	0.02 mm	0.02 mm	Dial
DHG-0200	492-14-500	0-200 mm	0.02 mm	0.02 mm	Dial
DHG-0300	492-15-500	0-300 mm	0.02 mm	0.04 mm	Dial

▶ EDHG-0301~EDHG-1000  
DDHG-0300~DDHG-0600



▲ EDHG

▲ DDHG

CODE No.	Mfg. Code	Range	Resolution	Execution
EDHG-0301	J1318-01	0-300 mm / 0-12"	0.01 mm / 0.005"	Electronic digital
EDHG-0500	J1318-02	0-500 mm / 0-20"	0.01 mm / 0.005"	Electronic digital
EDHG-0600	J1318-03	0-600 mm / 0-24"	0.01 mm / 0.005"	Electronic digital
EDHG-0800	J1318-04	0-800 mm / 0-32"	0.01 mm / 0.005"	Electronic digital
EDHG-1000	J1318-05	0-1000 mm / 0-40"	0.01 mm / 0.005"	Electronic digital

CODE No.	Mfg. Code	Range	Resolution	Execution
DDHG-0300	J1319-01	0-300 mm / 0-12"	0.01 mm / 0.005"	Double column + Ele. Digital
DDHG-0450	J1319-02	0-450 mm / 0-18"	0.01 mm / 0.005"	Double column + Ele. Digital
DDHG-0500	J1319-03	0-500 mm / 0-20"	0.01 mm / 0.005"	Double column + Ele. Digital
DDHG-0600	J1319-04	0-600 mm / 0-24"	0.01 mm / 0.005"	Double column + Ele. Digital

## OUTSIDE MICROMETER IN SET

CHINA

### ► MCS-0075~MCS-1100

- Same features as outside micrometer in fitted box



CODE No.	Range	No./set	Resolution	Accuracy	Anvil
MCS-0075	0-25 / 25-50 / 50-75 mm	3 pcs/set	0.01 mm	0.004 mm	
MCS-0100	0-25 / 25-50 / 50-75 / 75-100 mm	4 pcs/set	0.01 mm	0.004 mm	3 pcs.
MCS-0150	0-25 / 25-50 / 50-75 / 75-100 / 100-125 mm	5 pcs/set	0.01 mm	0.004 mm	3 pcs.
MCS-1100	0-1 / 1-2 / 2-3 / 3-4"	4 pcs/set	0.001"	0.004 mm	3 pcs.

## DEPTH MICROMETER

CHINA

### ► DM-0050 / DM-0100

- Base Width -100 mm



CODE No.	Range	Resolution	Accuracy
DM-0050	0-50 mm	0.01 mm	0.004 mm
DM-0100	0-100 mm	0.01 mm	0.004 mm

## INTERNAL MICROMETER

CHINA

### ► ITM-0025 / ITM-0300

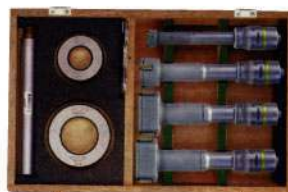


CODE No.	Range	Resolution	Accuracy
ITM-0025	25-50 mm	0.01 mm	0.005 mm
ITM-0300	50-300 mm	0.01 mm	0.005 mm

## 3 POINT INTERNAL BORE GAGE

CHINA

### ► PIB-0010~PIB-0088



CODE No.	Range	Resolution	Accuracy
PIB-0010	6-8 / 8-10 / 10-12 mm	0.01 mm	0.005 mm
PIB-0020	12-16 / 16-20 mm	0.01 mm	0.005 mm
PIB-0040	20-25 / 25-30 / 30-40 / 40-50 mm	0.01 mm	0.005 mm
PIB-0088	50-63 / 62-75 / 75-88 / 87-100 mm	0.01 mm	0.005 mm



## DIAL INDICATORS

TAIWAN

▶ DI-0001~DI-0005



▲ DI-0001



▲ DI-0003



▲ DI-0004



▲ DI-0005

CODE No.	Mfg. Code	Range	Graduation	Face Dia.	Execution
DI-0001	218-110	0-1 mm	0.001 mm	58 mm	Anti-dirty/dial lock - Inside Tokrance
DI-0002	218-110A	0-1 mm	0.001 mm	58 mm	Anti-dirty/dial lock - outside
DI-0003	211-010A	0-10 mm	0.01 mm	58 mm	Shockproof
DI-0004	211-020A	0-5 mm	0.01 mm	58 mm	Shockproof
DI-0005	211-020	0-3 mm	0.01 mm	58 mm	Shockproof

## DIAL TEST INDICATORS

TAIWAN

▶ DTI-001~DTI-004



▲ DTI-001



▲ DTI-002



▲ DTI-003



▲ DTI-004

CODE No.	Mfg. Code	Range	Graduation	Face dia.
DTI-001	411-101	0-0.8 mm	0.01 mm	30 mm
DTI-002	412-401	0-0.2 mm	0.002 mm	30 mm
DTI-003	414-101	0-0.8 mm	0.01 mm	30 mm
DTI-004	415-402	0-0.8 mm	0.001 mm	44 mm

## DIAL BORE GAUGES

TAIWAN

▶ DBG-001~DBG-0007



CODE No.	Mfg. Code	Graduation	Range	Depth	Anvil	Washer	Sub-anvil
DBG-001	311-203	0.001 mm	6-10 mm	40 mm	9 pcs		
DBG-002	311-204	0.001 mm	10-18 mm	100 mm	9 pcs	1 pcs	
DBG-003	311-205	0.001 mm	18-35 mm	150 mm	9 pcs	2 pcs	
DBG-004	311-206	0.001 mm	35-50 mm	150 mm	4 pcs	4 pcs	
DBG-005	311-208	0.001 mm	50-160 mm	150 mm	12 pcs	4 pcs	1 pc
DBG-006	311-209	0.001 mm	160-250 mm	250 mm	5 pcs	5 pcs	1 pc
DBG-007	311-210	0.001 mm	250-450 mm	250 mm	5 pcs	5 pcs	2 pc

## ELECTRONIC DIGITAL DIAL INDICATORS

TAIWAN



▲ EDDI-1004

▲ EDDI-1506

### ▶ EDDI-1506~EDDI-5020

CODE No.	Mfg. Code	Range	Accuracy	Dial face diameter.
EDDI-1506	312-001	0-15 mm / 0-0.6"	0.001 mm / 0.00005"	58 mm
EDDI-1004	312-101	0-10 mm / 0-0.4"	0.01 mm / 0.0005"	58 mm
EDDI-3012	312-103	0-30 mm / 0-1.2"	0.01 mm / 0.0005"	58 mm
EDDI-5020	312-105	0-50 mm / 0-2"	0.01 mm / 0.0005"	58 mm



▲ EDDI-0502

▲ EDDI-1040

### ▶ EDDI-0502 / EDDI-1040

CODE No.	Mfg. Code	Range	Accuracy	Dial face diameter.
EDDI-0502	314-161	0-5 mm / 0-0.2"	0.001 mm / 0.00005"	58 mm
EDDI-1040	314-162	0-10 mm / 0-0.4"	0.001 mm / 0.00005"	58 mm



▲ EDDI-1251

▲ EDDI-1252

### ▶ EDDI-1251~EDDI-2523

CODE No.	Mfg. Code	Range	Accuracy	Dial face diameter.
EDDI-1251	111-101	0-12.5 mm / 0-0.5"	0.01 mm / 0.0005"	62 mm
EDDI-1252	111-102	0-12.5 mm / 0-0.5"	0.01 mm / 0.0005"	62 mm
EDDI-2523	122-102	0-12.5 mm / 0-0.5"	0.002 mm / 0.00005"	62 mm

## DIAL CALIPER

TAIWAN



▲ IDCG

### ▶ IDCG-1535~IDCG-7595

CODE No.	Mfg. Code	Range	Graduation	Function
IDCG-1535	511-103	15-35 mm	0.01 mm	Inside
IDCG-3555	511-104	35-55 mm	0.01 mm	Inside
IDCG-5575	511-105	55-75 mm	0.01 mm	Inside
IDCG-7595	511-106	75-95 mm	0.01 mm	Inside



▲ ODCG

### ▶ ODCG-0020~ODCG-8010

CODE No.	Mfg. Code	Range	Graduation	Function
ODCG-0020	512-101	0-20 mm	0.01 mm	outside
ODCG-2040	512-102	20-40 mm	0.01 mm	outside
ODCG-4060	512-103	40-60 mm	0.01 mm	outside
ODCG-6080	512-104	60-80 mm	0.01 mm	outside
ODCG-8010	512-105	80-100 mm	0.01 mm	outside

## PRECISION GRANITE SURFACE PLATES

CHINA

### ► PGP-302005~PGP-128016

- Granite surface plates meet or exceed GGG-P-463c.
- Retains accuracy for years.
- Harder than Steel, plates not nick or bur.
- All packed by wooden case with Certificate.



CODE No.	Size	Grade	
		DIN	American
PGP-302005	300 x 200 x 50 mm	OO	AA
PGP-302006	300 x 200 x 50 mm	O	A
PGP-303007	300 x 300 x 70 mm	OO	AA
PGP-303008	300 x 300 x 70 mm	O	A
PGP-402507	400 x 250 x 70 mm	OO	AA
PGP-402508	400 x 250 x 70 mm	O	A
PGP-404010	400 x 400 x 100 mm	OO	AA
PGP-404011	400 x 400 x 100 mm	O	A
PGP-634010	630 x 400 x 100 mm	OO	AA
PGP-634011	630 x 400 x 100 mm	O	A
PGP-636310	630 x 630 x 100 mm	OO	AA

CODE No.	Size	Grade	
		DIN	American
PGP-636311	630 x 630 x 100 mm	O	A
PGP-805013	800 x 500 x 130 mm	OO	AA
PGP-805014	800 x 500 x 130 mm	O	A
PGP-106315	1000 x 630 x 150 mm	OO	AA
PGP-106316	1000 x 630 x 150 mm	O	A
PGP-107515	1000 x 750 x 150 mm	OO	AA
PGP-107516	1000 x 750 x 150 mm	O	A
PGP-101015	1000 x 1000 x 150 mm	OO	AA
PGP-101016	1000 x 1000 x 150 mm	O	A
PGP-128015	1200 x 800 x 150 mm	OO	AA
PGP-128016	1200 x 800 x 150 mm	O	A

## RECTANGLE GAUGE BLOCKS SET

CHINA

### ► GBM-091~GBM-121



CODE No.	Contains	System	Standard	Grade
GBM-091	91 pcs.	Metric	ISO3650	0
GBM-191	91 pcs.	Metric	ISO3650	1
GBM-291	91 pcs.	Metric	ISO3650	2
GBM-391	91 pcs.	Metric	ISO3650	3
GBM-083	83 pcs.	Metric	ISO3650	0
GBM-081	83 pcs.	Metric	ISO3650	1
GBM-082	83 pcs.	Metric	ISO3650	2
GBM-083	83 pcs.	Metric	ISO3650	3
GBM-046	46 pcs.	Metric	ISO3650	0
GBM-146	46 pcs.	Metric	ISO3650	1
GBM-246	46 pcs.	Metric	ISO3650	2
GBM-346	46 pcs.	Metric	ISO3650	3
GBM-038	38 pcs.	Metric	ISO3650	0
GBM-138	38 pcs.	Metric	ISO3650	1
GBM-238	38 pcs.	Metric	ISO3650	2
GBM-338	38 pcs.	Metric	ISO3650	3
GBI-081	81 pcs.	Inch	GGG-G-15C	A+
GBI-181	81 pcs.	Inch	GGG-G-15C	A&B
GBI-281	81 pcs.	Inch	GGG-G-15C	B
GBI-038	38 pcs.	Inch	GGG-G-15C	A+
GBI-138	38 pcs.	Inch	GGG-G-15C	A&B
GBI-238	38 pcs.	Inch	GGG-G-15C	B

CODE No.	Contains	System	Standard	Grade
GBM-0112	112 pcs.	Metric	DIN861	0
GBM-1112	112 pcs.	Metric	DIN861	1
GBM-2112	112 pcs.	Metric	DIN861	2
GBM-0103	103 pcs.	Metric	DIN861	0
GBM-1103	103 pcs.	Metric	DIN861	1
GBM-2103	103 pcs.	Metric	DIN861	2
GBM-0087	87 pcs.	Metric	DIN861	0
GBM-1087	87 pcs.	Metric	DIN861	1
GBM-2087	87 pcs.	Metric	DIN861	2
GBM-0076	76 pcs.	Metric	DIN861	0
GBM-1076	76 pcs.	Metric	DIN861	1
GBM-2076	76 pcs.	Metric	DIN861	2
GBM-0047	47 pcs.	Metric	DIN861	0
GBM-1047	47 pcs.	Metric	DIN861	1
GBM-2047	47 pcs.	Metric	DIN861	2
GBM-0032	32 pcs.	Metric	DIN861	0
GBM-1032	32 pcs.	Metric	DIN861	1
GBM-2032	32 pcs.	Metric	DIN861	2
GBM-001	10-	Metric	DIN861	0
GBM-011	10-	Metric	DIN861	1
GBM-021	10-	Metric	DIN861	2
GBM-101	10+	Metric	DIN861	0
GBM-111	10+	Metric	DIN861	1
GBM-121	10+	Metric	DIN861	2

## ELECTRONIC CALIPER

CHINA

▶ ECG-1030~ECG-3051



CODE No.	Range	Resolution	Accuracy
ECG-1030	10-30 mm	0.03 mm	0.01 mm
ECG-3050	30-50 mm	0.03 mm	0.01 mm
ECG-1031	10-30 mm	0.03 mm	0.01 mm
ECG-3051	30-50 mm	0.03 mm	0.01 mm

## PRECISION LEVEL

CHINA

▶ PSL-200~PFL-300

- Cast Iron body with precisely ground and scraped.
- V-shaped Base / surface.
- Built in "Vials".



CODE No.	Type	Size	Accuracy
PSL-200	Spirit	200 mm	0.02 mm / 1000 mm
PSL-0250	Spirit	250 mm	0.02 mm / 1000 mm
PSL-0300	Spirit	300 mm	0.02 mm / 1000 mm
PFL-200	Frame	200 mm	0.02 mm / 1000 mm
PFL-250	Frame	250 mm	0.02 mm / 1000 mm
PFL-300	Frame	300 mm	0.02 mm / 1000 mm

## GAGES

CHINA

▶ FG-20 / FG-32



### Feeler Gage

CODE No.	Blade no.	Specifications
FG-20	20 pcs.	0.05 mm - 1.00 mm / 0.05 mm step
FG-32	32 pcs.	0.0015- 0.035" / 0.0005" step x 3-1/2" Length

▶ TG-28~TG-30



### Thread Gage

CODE No.	Blade no.	Specifications
TG-28	28 pcs.	0.25-2.5 mm Pitch - 60 degree.
TG-30	30 pcs.	4-42 TPI -55 degree
TG-30	30 pcs.	4-42 TPI - 60 degree

▶ RG-17 / RG-16



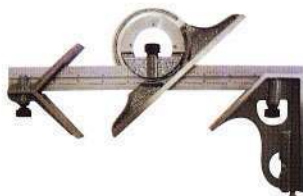
### Radius Gage

CODE No.	Blade no.	Specifications
RG-17	34 pcs.	1-7 mm / 17 pcs. Each of Convex and Concave
RG-16	32 pcs.	7.5-15 mm / 16 pcs. Each of convex and concave

## COMBINATION SQUARE SET

CHINA

▶ CSS-1606~CSS-3012



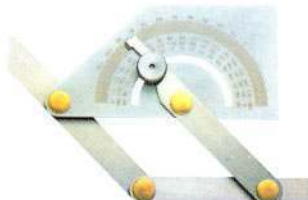
- Cast iron head and Stainless steel blade.
- Blade is with dual reading graduations - metric and imperial.
- 32 , 64 th, 1, 1/2 mm.

CODE No.	Length	Graduation	Accuracy
CSS-1606	160 mm / 6"	32, 64 th, 1, 1/2 mm	0.02 mm / 0.05 mm
CSS-2008	200 mm / 8"	32, 64 th, 1, 1/2 mm	0.02 mm / 0.05 mm
CSS-3012	300 mm / 12"	32, 64 th, 1, 1/2 mm	

## PARALLAXLESS UNIVERSAL BEVEL PROTRACTORS

CHINA

▶ PUP-150~PUP-301



- Blade is stainless steel, measuring range 0-360 degree.
- With fine adjustment.

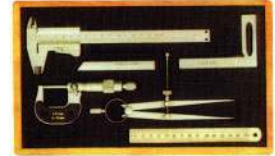
CODE No.	Length	CODE No.	Length
PUP-150	150 mm	PUP-201	8"
PUP-151	6"	PUP-300	300 mm
PUP-200	200 mm	PUP-301	12"

## MEASURING TOOL SET

CHINA

### ► MTS-003~MTS-006

- All packed in the fitted wooden box.



CODE No.	Veriner Caliper	Micro Meter	Stainless	Square	Inside microm	Didiver	Scriber
MTS-003	0-150 mm or 0-6"	0-25 mm or 0-1"	-	-	5-30 mm or 0-1"	-	
MTS-004	0-150 mm or 0-6"	0-25 mm or 0-1"	-	100 x 70 mm	5-30 mm or 0-1"	-	
MTS-005	0-150 mm or 0-6"	0-25 mm or 0-1"	150 mm / 6"	100 x 70 mm			
MTS-006	0-150 mm or 0-6"	0-25 mm or 0-1"	150 mm / 6"	100 x 70 mm		150 mm / 6"	100 mm / 4"

## UNIVERSAL ARM MAGNETIC STAND

TAIWAN

### ► 3264-0425~3264-0300

#### MECHANICAL TYPE



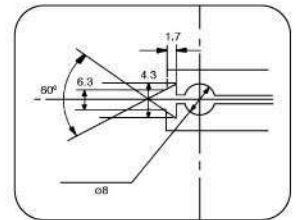
▲ 3264-0425



▲ 3264-0340



▲ 3264-0320



#### HYDRAULIC TYPE



▲ 3264-0426



▲ 3264-0341



▲ 3264-0343

#### ECONOMIC TYPE



▲ 3264-0344



▲ 3264-0345



▲ 3264-0300

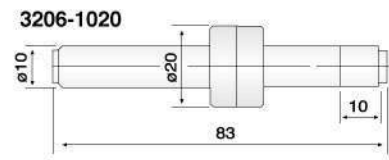
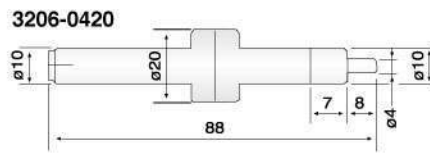
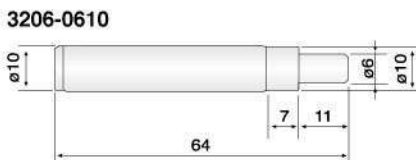
CODE No.	Magnetic Base Holding Power	Main Pole Length	Base Dimension			Net Weight
			L	W	H	
3264-0425	100 kgf	425 mm	80	50	55	2.3 kg
3264-0340	100 kgf	340 mm	80	50	55	2.0 kg
3264-0320	80 kgf	340 mm	60	50	55	1.7 kg
3264-0426	100 kgf	425 mm	80	50	55	2.5 kg
3264-0341	100 kgf	340 mm	80	50	55	2.3 kg

CODE No.	Magnetic Base Holding Power	Main Pole Length	Base Dimension			Net Weight
			L	W	H	
3264-0343	80 kgf	340 mm	60	50	55	2.0 kg
3264-0344	80 kgf	340 mm	60	50	55	1.6 kg
3264-0345	80 kgf	340 mm	60	50	55	1.6 kg
3264-0300	80 kgf	300 mm	60	50	55	1.4 kg

## MECHANICAL EDGE FINDERS

TAIWAN

▶ 3206-0610~3206-1410



CODE No.	Type	Material of Finder	HRC	AOL	Shank Dia.	Probe-Dia. x l	Gross Weight
3206-0610	SME-610	Alloy Steel-Cr.-Mo.	58 deg.	64 mm (2.5")	10 mm (3/8")	6 x 11 mm	0.08 kgs
3206-0420	SME-420	Alloy Steel-Cr.-Mo.	58 deg.	88 mm (3.46")	10 mm (3/8")	10 x 8 mm	0.14 kgs
3206-1020	SME-1020	Alloy Steel-Cr.-Mo.	58 deg.	83 mm (3.27")	10 mm (3/8")	10 x 10 mm	0.12 kgs
3206-0421	SME-420ST	Stainless steel	60 deg.	88 mm (3.46")	10 mm (3/8")	10 x 8 mm	0.14 kgs
3206-1021	SME-1020ST	Stainless steel	60 deg.	83 mm (3.27")	10 mm (3/8")	10 x 10 mm	0.12 kgs
3206-1100	TN-10	Mep type is nonmagnetic	HV-2500 deg.	83 mm (3.27")	10 mm (3/8")	10 x 10 mm	0.12 kgs
3206-1410	TN-410	Mep type is nonmagnetic	HV-2500 deg.	88 mm (3.46")	10 mm (3/8")	10 x 8 mm	0.14 kgs

## CERAMIC EDGE FINDERS

TAIWAN

▶ 3206-0010 / 3206-0011



CODE No.	Type	Material of Finder	HRC	AOL	Shank Dia.	Probe-dia. x l	Gross Weight
3206-0010	MEP-10	Ceramic	HV-1350 deg	88 mm (3.46")	10 mm (3/8")	6 x 10 mm	0.1 kgs
3206-0011	CER-10	Ceramic	HV-1350 deg	88 mm (3.46")	10 mm (3/8")	10 x 4 mm	0.1 kgs

## OPTICAL EDGE FINDERS

TAIWAN

▶ 3206-020S~3207-ST5/4



▲ 3206-32LB    ▲ 3206-032L    ▲ 3206-20LB    ▲ 3206-020L    ▲ 3206-020S

CODE No.	Type	Shank Dia.	AOL	Probe Dia.	Battery Type	Net Weight
3206-020S	SOE-20S	20 mm (0.787")	120 mm (4.724")	10 mm (3/8")	Um5# x 12V x 1pc.	0.35 kgs
3206-020L	SOE-20L	20 mm (0.787")	158 mm (6.22")	10 mm (3/8")	Um5#-1.5V x 2	0.40 kgs
3206-20LB	SOE-20LB	20 mm (0.787")	158 mm (6.22")	10 mm (3/8")	Um5# x 12V x 1pc.	0.40 kgs
3206-032L	SOE-32L	20 mm (0.787")	158 mm (6.22")	10 mm (3/8")	Um5#-1.5V x 2	0.70 kgs
3206-32LB	SOE-32LB	20 mm (0.787")	158 mm (6.22")	10 mm (3/8")	Um5# x 12V x 1pc.	0.70 kgs
3207-OP20	SYIC-OP	18 mm (0.70")	160 mm (6.3")	10 mm (3/8")	UM5#-1.5V x 2	0.30 kgs
3207-OP32	SYIC-OP	18 mm (0.70")	160 mm (6.3")	10 mm (3/8")	UM5#-1.5V x 2	0.60 kgs
3207-MT2	SYIC-OP	MT#2	160 mm (6.3")	10 mm (3/8")	UM5#-1.5V x 2	0.35 kgs
3207-ES20	SYIC-ES	18 mm (0.70")	160 mm (6.3")	10 mm (3/8")	UM5#-1.5V x 2	0.35 kgs
3207-ES32	SYIC-ES	18 mm (0.70")	160 mm (6.3")	10 mm (3/8")	UM5#-1.5V x 2	0.6 kgs
3207-ST20	SYIC-ST	20 mm (0.787")	97 mm (3.81")	10 mm (3/8")	AG13 x 2	0.15 kgs
3207-ST32	SYIC-ST	32 mm (1.26")	97 mm (3.81")	10 mm (3/8")	AG13 x 2	0.45 kgs
3207-ST3/4	SYIC-ST	3/4"	97 mm (3.81")	0.4"	AG13 x 2	0.15 kgs
3207-ST5/4	SYIC-ST	1-1/4"	97 mm (3.81")	0.4"	AG13 x 2	0.45 kgs

## Z AXIS PRESET GAUGE

TAIWAN

▶ 3206-0050~3207-1003



▲ 3206-0050



▲ 3206-0051



▲ 3206-0052



▲ 3206-0053



▲ 3207-0054



▲ 3207-1003

CODE No.	Mfgr No.	Over Height	Type	Net Weight
3206-0050	ZIP-50	50 mm	Dial Gauge	1.2 kgs
3206-0051	ZOV-50	50 mm	Dial Gauge	1.4 kgs
3206-0052	ZIP-50A	50 mm	Dial Gauge	1.8 kgs
3206-1001	ZIP-100	100 mm	Dial Gauge	3 kgs
3206-1002	ZOP-100	100 mm	Optical	0.9 kgs
3206-0053	ZOP-50	50 mm	Optical	0.6 kgs
3207-0054	SYIC-ZD50	50 mm	Dial Gauge	1.0 kgs
3207-1003	SYIC-ZD100	100 mm	Dial Gauge	1.8 kgs

## DIGITAL READOUT SYSTEM

CHINA

► KA-300~KA-900



### 2 AXIS

Key basic function are listed as follows:

- Function of 200 point subsidiary ZERO positions.
- Power interruption Memory.
- Segmented & line error compensation.
- Finding the center position function.
- The mm system / Inch system conversion display function.

### 3 AXIS

Key Machining function are listed as follows:

- PCD circle equally dividing holes.
- Hole drilling along an oblique line.
- The progressive rectangular inner chamber.
- Digital filter function.
- Angular surface processing.
- Arc calculating function.
- N3 function.
- 200 tool storeroom.
- The function of measure for taper.



### Sealed Liner Encoders.

- Every single ruler has been dynamically laser inspected
- KA-300 is standard ruler - TTL electric level, and KA-500 is super -miniature thin ruler (20 x 18 mm)

CODE No.	KA-300	KA-500	KA-600	KA-700	KA-900
Measuring length / per 50 mm step	70-1540 mm	70-470 mm	1000-3000 mm	170-1240 mm	50 mm
Cross Section	25 x 34 mm	18 x 20 mm	30 x 43 mm	40 x 42 mm	21 x 40 mm
Accuracy	20°C / 68°F - $\pm 3 / \pm 5 / \pm 10 \mu\text{m}$				
Max. Traversing Speed	0.5 meter/sec. or 1/meter/sec.				
Repeatability	1				
Protection	IP 55				
Resolution	0.5 / 1.5				
Output	TTL				

## MOUNTING HARDWARE INCLUDED / AS PICTURE BELOW

CHINA





## 24 VOLTS, ACCEPTED 75 WATTS BULB, FURNISHED 70 WATTS.

TAIWAN

▶ 8000-0810~8000-0816



▲ 8000-0810



▲ 8000-0813



▲ 8000-0816

CODE No.	Mfg. No.	arm	Transformer	Volts	Light Base	Mounting Type	Lamp
8000-0810	HT-L81	420 x 420 mm	Opt.	12 / 24 V	Universal	G-20 / G-21	24V / 70W
8000-0811	HT-M81	220 x 185 mm	Opt.	12 / 24 V	Universal	G-20 / G-21	24V / 70W
8000-0812	HT-S81	short	Opt.	12 / 24 V	Universal	G-20 / G-21	24V / 70W
8000-0813	HT-L71	420 x 420 mm	Opt.	12 / 24 V	Universal	G-20 / G-21	24V / 70W
8000-0814	HTT-L71	420 x 420 mm	Built-in	110 / 220 V	Universal	G-20 / G-21	12V / 50W
8000-0815	HTT-M71	220 x 220 mm	Built-in	110 / 220 V	Universal	G-20 / G-21	12V / 50W
8000-0816	HTT-S71	short	Built-in	110 / 220 V	Universal	G-20 / G-21	12V / 50W

## 12 VOLTS, 20 AND 50 WATTS BULB, FURNISHED WITH 20 WATTS.

TAIWAN

▶ 8000-0075~8000-0081



▲ 8000-0075



▲ 8000-0077



▲ 8000-0080

CODE No.	Mfg. No.	arm	Transformer	Volts	Light Base	Mounting Type	Lamp
8000-0075	A-L301A	410 x 400 mm	Opt.	12 / 24 V	Universal	L23 / L28	20 Watts / Opt-50W
8000-0076	A-L301B	240 x 185 mm	Opt.	12 / 24 V	Universal	L23 / L28	20 Watts / Opt-50W
8000-0077	A-L301C	short	Opt.	12 / 24 V	Universal	L23 / L28	20 Watts / Opt-50W
8000-0078	A-L301AT	410 x 400 mm	Opt.	110 / 220 V	Universal	L23 / L28	20 Watts / Opt-50W
8000-0079	A-L301BT	240 x 185 mm	Opt.	110 / 220 V	Universal	L23 / L28	20 Watts / Opt-50W
8000-0080	A-L301FT	410 x 400 mm	Built-in	110 / 220 V	Universal	L219 / L213	20 Watts / Opt-50W
8000-0081	A-L301F	240 x 185 mm	Built-in	12 / 24 V	Universal	L219 / L213	20 Watts / Opt-50W

## 12 VOLTS- WITH FLEXIBLE GOOSE NECK

TAIWAN

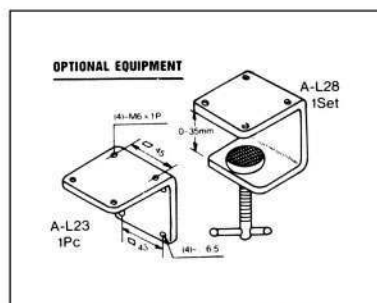
▶ 8000-0063~8000-0064



▲ 8000-0063



▲ 8000-0064



▲ A-L23

▲ A-L28



▲ L-219

▲ L-213

CODE No.	Mfg. No.	arm	Transformer	Volts	Mounting Type	Lamp
8000-0063	A-L201W	Goose neck	Opt.	12 / 24 V	Magnetic-Base	20 Watts / Opt. 50W
8000-0064	A-L201WT	Goose neck	Built-in	110 / 220 V	Magnetic-base	20 Watts / Opt. 50W

## 12 VOLTS-ACCEPT-20 AND 50 WATTS BULBS, FURNISHED WITH 20 WATTS BULB

▶ 8000-0301~8000-0305

TAIWAN



▲ 8000-0301



▲ 8000-0303

CODE No.	Mfg. No.	arm	Transformer	Volts	Light base	Mounting Type	Lamp
8000-0301	A-W301A	410 x 410 mm	Opt.	12V	Universal	L23 / L28	20 Watts / Opt. 50W
8000-0302	A-W301B	240 x 185 mm	Opt.	12V	Universal	L23 / L28	20 Watts / Opt. 50W
8000-0303	A-W301C		Opt.	12V	Universal	L23 / L28	20 Watts / Opt. 50W
8000-0304	A-W301AT	410 x 410 mm	Built-in	110-240V	Universal	L23 / L28	20 Watts / Opt. 50W
8000-0305	A-W301BT	240 x 185 mm	Built-in	110-240V	Universal	L23 / L28	20 Watts / Opt. 50W

## 12 VOLTS, ACCEPT-50W,75W & 100W BULBS, LAMP FURNISHED WITH 55 WATTS BULBS.

▶ 8000-0100~8000-0104

TAIWAN



▲ 8000-0100

CODE No.	Mfg. No.	arm	Transformer	Volts	Mounting Type	Lamp
8000-0100	101 Series	410 x 400 mm		12 V	L23 / L28	50 / 55 / 70 / 75 Watts
8000-0101	101 Series	240 x 185 mm		12 V	L23 / L28	50 / 55 / 70 / 75 Watts
8000-0102	101 Series	Short		12 V	Magnetic base	50 / 55 / 70 / 75 Watts
8000-0103	103 Series	410 x 400 mm	Built-in	110 V - 240 V	L23 / L28	50 / 55 / 70 / 75 Watts
8000-0104	103 Series	240 x 185 mm	Built-in	110 V - 240 V	L23 / L28	50 / 55 / 70 / 75 Watts

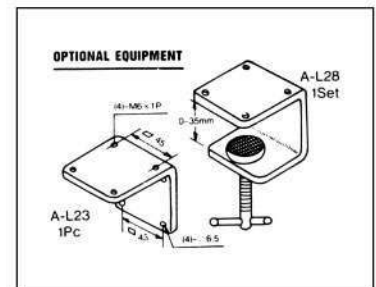
## COLOR WORKING LAMPS

TAIWAN



◀ 8000-0606  
Large shade

▶ 8000-0707  
Smaller shade



## FLUORESCENT WORKING LAMP-LAMP DIA. 70MM DIA. WITH 1.8 METER ELECTRICAL CORD. DB-WITH PLUG.

TAIWAN

▶ 8000-5101~8000-5201



▲ 8000-5101/5150/5200



▲ 8000-5102/5151/5201

CODE No.	Mfg. No.	Lamp
8000-5101	A-W510D	Lamp - 10 Watts
8000-5150	A-W515D	Lamp - 15 Watts
8000-5200	A-W520D	Lamp - 20 Watts
8000-5102	A-W510DB	Lamp - 10 Watts
8000-5151	A-W515DB	Lamp - 15 Watts
8000-5201	A-W520DB	Lamp - 20 Watts

## HANDWHEELS LEVERS AND HANDLES

TAIWAN



**SANDBLAST-PLATE  
HANDWHEEL**



**ALUMINUM HAND  
WHEELS**



**SAFETY HANDWHEEL**



**ADJUSTABLE  
HAND LEVER**



**GRADATION RINGS**



**INDICATORS**



**RETRACTABLE SAFETY  
HANDLES**



**CRANKED  
HANDLE**



**TRI-BALL  
HANDLES**

**REMARK**

- Please contact us for specifications and different models / series of handwheels, levers and handles.
- We will send you a more detailed catalogue with all the information.

## MECHANICAL STROKE DIGITAL COUNTER

TAIWAN

- All with ABS Housing-Gray or Black painted substance
- All with Metal base-Gray or Black painted substance
- 4 Digits or 5 Digits
- Packing=each one packed by small box, each 10 small boxes packed into Inner carton.
- And 12 inner carton packed by shipping carton. (per 120 pcs.In shipping carton.-approx. 0.95 Cuft.
- Shipping weight-12 kgs per shipping carton.



- CODE No. 9999-1000 4 Digits gray color-45 degree Activation
- CODE No. 9999-1001 5 Digits gray color-45 degree Activation
- CODE No. 9999-1002 6 Digits gray color-45 degree Activation
- CODE No. 9999-1003 4 Digits black color-45 degree Activation
- CODE No. 9999-1004 5 Digits black color-45 degree Activation
- CODE No. 9999-1005 6 Digits black color-45 degree Activation
- CODE No. 9999-1006 5 Digits black color-360 degree Activation

## HAND COUNTER

TAIWAN

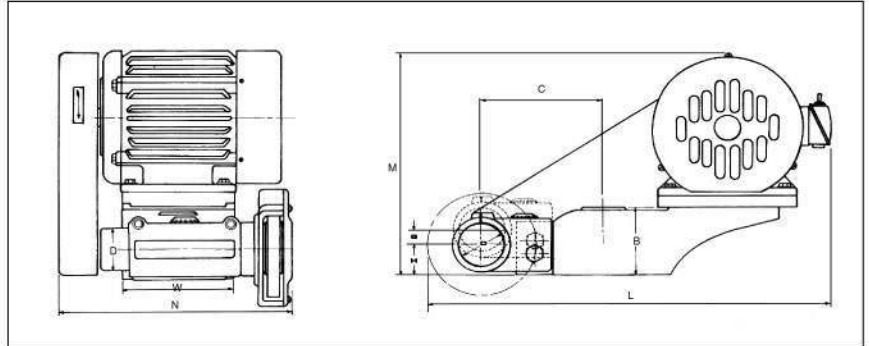
- All metal housing-chrome plated
- All 4 Digits
- All with Handy re-set knob

- CODE No. 9999-1007 without base, finger ring.
- CODE No. 9999-1008 without base, finger ring.
- CODE No. 9999-1009 without ABS base Black substance, finger ring.
- CODE No. 9999-1010 without ABS base Black substance, finger ring.
- CODE No. 9999-1011 without ABS chrome plate base, finger ring.
- CODE No. 9999-1012 without ABS chrome plate base.

## TOOLPOST GRINDERS

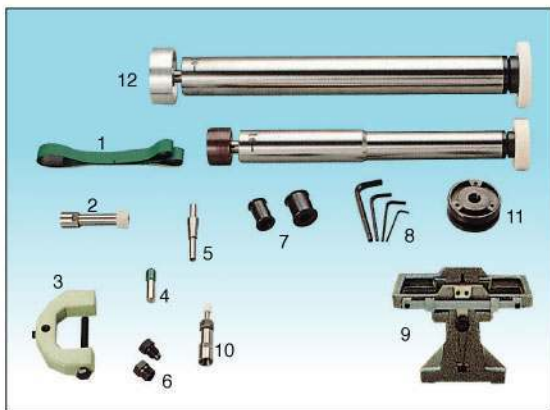


► 5011-1320~5011-1830



CODE No.	C	D	H	G	B	W	L	M	N	Net Weight	Packing Size
5011-1320	100	50	38	15	72	102	440	240	290	26 kg	50 x 38 x 40 cm
5011-1830	110	60	40	15	72	102	485	270	300	38 kg	55 x 40 x 44 cm

Specifications		External Grinding			Internal Grinding			Depth	Applicable Lathe Swing
CODE No.	HP x Pole	Grinding Wheel	Unloading RPM		Grinding Wheel	Unloading RPM			
			60 Hz	50 Hz		60 Hz	50 Hz		
5011-1320	1/2 HP x 2P	12.5 x 19 x 41.27 (5" x 3/4" x 1-5/8")	4500	3750	25 x 16 x 6 (1" x 5/8" x 1/4")	23000	19000	90 mm (3-1/2")	330-500 mm (13-20")
5011-1830	1 HP x 2P	180 x 19 x 31.75 (4" x 3/4" x 1-1/4")	3300	2750	38 x 20 x 8 (1 1/2" x 3/4" x 1/4")	18000	16800	110 mm (4")	460-750 mm (18-30")



### STANDARD ACCESSORIES

1. Driving belts
2. Internal grinding arbor
3. Wheel dresser
4. Diamond tool
5. Wheel balancing arbor
6. Pullout bolt
7. Pulleys
8. Hexagon wrench

### OPTIONAL ACCESSORIES AT EXTRA COST

9. Wheel balancing stand.
10. Spring collet chuck+arbor.
11. Grinding wheel flanges.
12. Deep hole internal grinding spindles.

### FOR INTERNAL GRINDING



### FOR EXTERNAL GRINDING



## HEAVY DUTY INDUSTRIAL BENCH GRINDERS



### ▶ ABG-611~ABG-1223



▲ ABG-611 STAND A



▲ ABG-831/833 STAND A

CODE No.	ABG-611	ABG-831	ABG-1031 / 2P	ABG-1031 / 4P
Power-input / Output	0.25 / 0.15 kw (1 / 3 hp)	0.45 / 0.3 kw (3 / 5 hp)	1 / 0.75 kw (1.5 / 1 hp)	0.8 / 0.56 kw (0.75 hp)
V / Hz / Ph	110 - 240 Volt / 50 or 60 Hz / 1 phase			
Full Load	50 Hz - 2850 rpm or 60 Hz - 3450 rpm			
Guard-Type	BS	2B	3B	3B
Guard-Thickness	2 mm (0.08")	2.5 mm (0.1")	4 mm (0.157")	2.5 mm (0.1")
Guard-Extractor (mm/inch)	N/A	34	1-1/3"	34
Eye Shield (L x W x H)	110 x 90 x 5 mm (4.33" x 3.54" x 0.2")	130 x 100 x 5 mm (5" x 4" x 0.2")	140 x 110 x 5 mm (5.5" x 4.33" x 0.2")	140 x 110 x 5 mm (5.5" x 4.33" x 0.2")
Toolrests	BS	2B	3B	3B
Switch	NVR+EMS		NVR+EMS+OLP	
Wheels Size	150 x 25 x 20 mm (6" x 1" x 3/4")	200 x 25 x 20 mm (8" x 1" x 3/4")	250 x 38 x 25.4 mm (10" x 1-1/2" x 1")	250 x 38 x 25.4 mm (10" x 1-1/2" x 1")
Dis. Between Wheels Center	305 mm (12")	390 mm (15.3")	470 mm (18.5")	470 mm (18.5")
Dimension (L x W x H)	370 x 215 x 260 mm (14.5" x 8.5" x 10")	470 x 265 x 300 mm (18.5" x 10.5" x 11")	580 x 360 x 350 mm (22.8" x 14" x 13.8")	580 x 360 x 350 mm (22.8" x 14" x 13.8")
Net Weight	12 kgs / 26.5 lbs	21 kgs / 46.3 lbs	50 kgs / 110 lbs	50 kgs / 110 lbs



▲ ABG-1031/1033 STAND L



▲ ABG-1223 STAND L1

CODE No.	ABG-833	ABG-1033/2P	ABG-1033/4P	ABG-1223
Power-input / Output	0.6 / 0.3 kw (3 / 4 hp)	1 / 0.75 kw (1.5 / 1 hp)	0.8 / 0.56 kw (1.5 hp)	1.85 / 1.5 kw (3 hp)
V / Hz / Ph	220 - 480 Volt / 50 or 60 Hz / 3 phase			
Full Load	50 Hz - 2850 rpm or 60 Hz - 3450 rpm			
Guard-Type	2B	3B	3B	SUVA
Guard-Thickness	2.5 mm (0.1")	4 mm (0.157")	2.5 mm (0.1")	3 mm (0.118")
Guard-Extractor (mm/inch)	1-1/3"	34	34	34
Eye Shield (L x W x H)	130 x 110 x 5 mm (5" x 4" x 0.2")	140 x 110 x 5 mm (5.5" x 4.33" x 0.2")	140 x 110 x 5 mm (5.5" x 4.33" x 0.2")	140 x 110 x 5 mm (5.5" x 4.33" x 0.2")
Toolrests	2B	3B	3B	SUVA
Switch	NVR+EMS		NVR+EMS+OLP	
Wheels Size	200 x 25 x 20 mm (8" x 1" x 3/4")	250 x 38 x 25.4 mm (10" x 1-1/2" x 1")	250 x 38 x 25.4 mm (10" x 1-1/2" x 1")	300 x 50 x 25.4 mm (12" x 2" x 1")
Dis. Between Wheels Center	390 mm (15.3")	470 mm (18.5")	470 mm (18.5")	600 mm (23.6")
Dimension (L x W x H)	470 x 265 x 300 mm (18.5" x 10.5" x 11")	580 x 360 x 350 mm (22.8" x 14" x 13.8")	580 x 360 x 350 mm (22.8" x 14" x 13.8")	760 x 490 x 440 mm (30" x 19.3" x 17.3")
Net Weight	20 kgs / 44 lbs	50 kgs / 110 lbs	48 kgs / 105.8 lbs	82 kgs / 180.7 lbs

## HEAVY DUTY INDUSTRIAL BENCH GRINDERS & WIRE BUFFERS

TAIWAN

### ▶ ACN-831~ACN-1033



▲ ACN-831/833 STAND A



▲ ACN-1031/1033 STAND L

CODE No.	ACN-831	ACN-1031	ACN-833	ACN-1033
Power-Input / Output	0.45 / 0.3 kw (0.6 / 0.4 hp)	1.12 / 0.75 kw (1.5 / 1 hp)	0.45 / 0.3 kw (0.8 / 0.4 hp)	1 / 0.75 kw (1.5 / 1 hp)
V / Hz / Ph	110V - 230V / 50 Hz / 60 Hz / 1Phase		220V - 440V / 50 Hz / 60 Hz / 3Phase	
Full Load	50 Hz - 2850 rpm		60 Hz - 3450 rpm	
Grinder Guard-Type	2B	3B	2B	3B
Grinder Guard-Thickness	2.5 mm (0.1")	4 mm (0.157")	2.5 mm (0.1")	4 mm (0.157")
Grinder Guard-Extractor	34 mm (1-1/3")	34 mm (1-1/3")	34 mm (1-1/3")	34 mm (1-1/3")
Wire Brush Guard-Type	4B	5B	4B	5B
Wire Brush Guard-Thickness	2.5 mm (0.1")	4 mm (0.157")	2.5 mm (0.1")	4 mm (0.157")
Wire Brush Guard-Extractor	100 mm (39.4")	100 mm (39.4")	100 mm (39.4")	100 mm (39.4")
Eye Shield (L x W x T)	130 x 110 x 5 mm (5.12" x 4.3" x 0.2")	140 x 110 x 5 mm (5.51" x 4.3" x 0.2")	130 x 110 x 5 mm (5.12" x 4.3" x 0.2")	140 x 110 x 5 mm (5.51" x 4.3" x 0.2")
Switch	NVR+EMS	NVR+EMS+OLP	NVR+EMS	NVR+EMS+OLP
Grinding wheel size	200 x 25 x 20 mm (8" x 1" x 3/4")	250 x 38 x 25.4 mm (10" x 1-1/2" x 1")	200 x 25 x 20 mm (8" x 1" x 3/4")	250 x 38 x 25.4 mm (10" x 1-1/2" x 1")
Wire brush wheels size	200 x 19 x 16 mm (8" x 3/4" x 5/8")	250 x 25 x 25.4 mm (10" x 1" x 1")	200 x 19 x 16 mm (8" x 3/4" x 5/8")	250 x 25 x 25.4 mm (10" x 1" x 1")
Dis.btw. wheels center	410 mm (16")	490 mm (19.3")	410 mm (16")	490 mm (19.3")
Dimension (L x W x H)	520 x 410 x 1110 mm (20.5" x 16" x 43")	650 x 410 x 1160 mm (25.6" x 16" x 45.67")	520 x 410 x 1110 mm (20.5" x 16" x 43")	650 x 410 x 1160 mm (25.6" x 16" x 45.67")
Net Weight	45 kgs / 100 lbs	72 kgs / 160 lbs	45 kgs / 100 lbs	72 kgs / 160 lbs

## HEAVY DUTY BENCH GRINDERS & BELT SANDER COMBINATION

TAIWAN

### ▶ GS-4481~GS-4593



▲ GS-4591/4593



▲ GS-4481/4483

CODE No.	GS-4481	GS-4591	GS-4483	GS-4593
Power-Input / Output	1.0 / 0.75 kw (1.33 / 1 hp)	1.85 / 1.5 kw (3 / 2 hp)	1.0 / 0.75 kw (1.33 / 1 hp)	1.85 / 1.5 kw (3 / 2 hp)
V / Hz / Ph	115V - 230V		230V - 460V / 50 Hz / 60 Hz / 3 Ph	
Switch	NVR+OLP, IP54			
Sanding Belt	100 x 1220 mm (4" x 48")	100 x 1500 mm (4" x 59")	100 x 1220 mm (4" x 48")	100 x 1500 mm (4" x 59")
Belt Speeds (m/inch)	19 (748) /sec.	25 (984) /sec.	19 (748) /sec.	25 (984) /sec.
Driving Wheel	126 x 105 mm (4.96" x 4.13")	170 x 105 mm (6.7" x 4.13")	126 x 105 mm (4.96" x 4.13")	170 x 105 mm (6.7" x 4.13")
Grinding Surface	320 x 100 mm (12.6" x 3.94")	405 x 100 mm (15.94" x 3.94")	320 x 100 mm (12.6" x 3.94")	405 x 100 mm (15.94" x 3.94")
Dimension (L x W x H)	650 x 390 x 1070 mm (25.6" x 15.3" x 42")	820 x 480 x 1100 mm (25.6" x 18.9" x 43.3")	650 x 390 x 1070 mm (25.6" x 15.3" x 42")	820 x 480 x 1100 mm (25.6" x 18.9" x 43.3")
Floor Stand	380 x 390 x 810 mm (15" x 15.4" x 31.9")	650 x 450 x 660 mm (25.6" x 17.7" x 26")	380 x 390 x 810 mm (15" x 15.4" x 31.9")	650 x 450 x 660 mm (25.6" x 17.7" x 26")
Net Weight	47 kgs (104 lbs)	67 kgs (148 lbs)	48 kgs (104 lbs)	67 kgs (148 lbs)

## HEAVY DUTY BENCH GRINDERS & BELT SANDER COMBINATION

TAIWAN

### ▶ AGS-6201~AGS-1043



▲ AGS-6201 STAND A



▲ AGS-1043 STAND L

CODE No.	AGS-6201	AGS-8431	AGS-8433	AGS-1043
Power-Input / Output V / Hz / Ph	0.3 / 0.2 kw (0.4 / 0.15 hp) 110V - 230V / 50 Hz / 60 Hz / 1Ph	0.6 / 0.42 kw (1.0 / 0.56 hp) 50 Hz - 2850 rpm	0.72 / 0.52 kw (1.2 / 0.7 hp) 220V - 440V / 50 Hz / 60 Hz / 3Ph 60 Hz - 3450 rpm	1.5 / 1.12 kw (2.2 / 1.5 hp)
Grinder Guard Type	BS	2B	2B	3B
Grinder Guard Thickness	2.5 mm (0.1")	2.5 mm (0.1")	2.5 mm (0.1")	4 mm (0.157")
Grinder Guard Extract	Non	34 mm (1-1/3")	34 mm (1-1/3")	34 mm (1-1/3")
Tool Rests	BS	2B	2B	3B
Eye Shield (L x W x T)	110 x 90 x 5 mm (4.3" x 3.5" x 0.2")	130 x 100 x 5 mm (5.12" x 4" x 0.2")	130 x 100 x 5 mm (5.12" x 4" x 0.2")	140 x 110 x 5 mm (5.51" x 4.3" x 0.2")
Switch	NVR+EMS		NVR+EMS	NVR+EMS+OLP
Grinding Wheels Size	150 x 25 x 20 mm (6" x 1" x 3/4")	200 x 25 x 20 mm (8" x 1" x 3/4")	200 x 25 x 20 mm (8" x 1" x 3/4")	250 x 38 x 25.4 mm (10" x 1-1/2" x 1")
Sanding Belt	50 x 1000 mm (2" x 40")	100 x 1000 mm (4" x 40")	100 x 1000 mm (4" x 40")	100 x 1150 mm (4 x 45")
Grinding Surface	50 x 250 mm (2" x 10")	100 x 250 mm (4" x 10")	100 x 250 mm (4" x 10")	100 x 250 mm (4" x 10")
Belt Speeds	15 mm (590") / sec.	15 mm (590") / sec.	15 mm (590") / sec.	15 mm (590") / sec.
Dimension (L x W x H)	410 x 215 x 570 mm (16" x 8.5" x 22.4")	520 x 265 x 620 mm (20.5" x 10.4" x 24.41")		620 x 360 x 680 mm (24.4" x 14.18" x 26.78")
Net Weight	16 kgs / 35 lbs	26 kgs / 57 lbs	27 kgs / 59 lbs	53 kgs / 117 lbs

## 14" DRY CUTTER

TAIWAN



Powerful 4 HP motor  
 Max. Cutting : Ruggedly constructed aluminum base  
 Burable See : through blade guard  
 Miter gauge permits bevel cutting up to 45 deg.  
 Blade Speed : 1300 rpm  
 Max. cutting : Round - 130 mm / Rectangle - 165 x 114 mm  
 Net Weight : 22.7 Kgs (50 Lbs)  
 TCT Blade OD. x ID. : 355 x 25.4 mm (14 x 1")

## 14" CHOP SAW

TAIWAN



Powerful 4.5 HP motor  
 Max. Cutting : Rectangular - 90 / 45 deg - 119 / 106 mm  
 Round : 90 / 45 deg - 115 mm  
 I / L Beam  
 90 / 45 deg : 137 / 100 mm  
 RPM-Un-load : 3800 rpm  
 AMPS : 115V - 1.5 / AC / DC    AMPS : 230V - 7.5 AC amps  
 Net Weight : 16.5 Kgs (36.3 Lbs)  
 Abrasive Wheel : O.D. x ID - 355 x 25.4 mm (14 x 1")

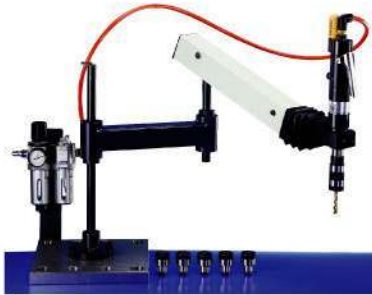
## AIR AIR TAPPING ATTACHMENTS



### Standard accessories for all models

- Air tapping spindle.
- Extension.
- Fix base.
- Air control unit.
- Tapping collets - 6 pcs. / set - select size.
- "S" series - swivel arm type.

### ▶ 7890-7901~7890-7906



CODE No.	Mfg No.	Capacity	Spindle Speed	Working Radial		Net Weight	Type of arm
				Max.	Min.		
7890-7901	AE-80-700	M2-M8	700 rpm	700 mm	-	12 kgs	Fix
7890-7902	AE-80-700S	M2-M8	700 rpm	700 mm	-	12 kgs	Swivel
7890-7903	AE-12-700	M3-M12	400 rpm	700 mm	-	12 kgs	Fix
7890-7904	AE-12-700S	M3-M12	400 rpm	700 mm	-	12 kgs	Swivel
7890-7905	AE-16-700	M3-M16	400 rpm	700 mm	-	15 kgs	Fix
7890-7906	AE-16-700S	M3-M16	400 rpm	700 mm	-	15 kgs	Swivel

### ▶ 7890-7907~7890-7912



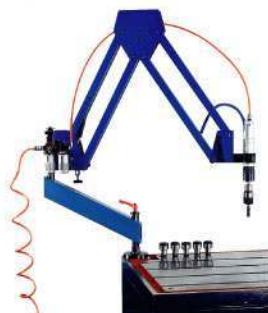
CODE No.	Mfg No.	Capacity	Spindle Speed	Working Radial		Net Weight	Type of arm
				Max.	Min.		
7890-7907	AS-08/II	M2-M8	700 rpm	1400 mm	200 mm	18 kgs	Fix
7890-7908	AS-08/II S	M2-M8	700 rpm	1400 mm	200 mm	18 kgs	Swivel
7890-7909	AS-12/II	M3-M12	400 rpm	1400 mm	200 mm	18 kgs	Fix
7890-7910	AS-12/II S	M3-M12	400 rpm	1400 mm	200 mm	18 kgs	Swivel
7890-7911	AS-16/II	M3-M16	400 rpm	1400 mm	200 mm	20 kgs	Fix
7890-7912	AS-16/II S	M3-M16	400 rpm	1400 mm	200 mm	20 kgs	Swivel

### ▶ 7890-7913~7890-7918



CODE No.	Mfg No.	Capacity	Spindle Speed	Working Radial		Net Weight	Type of arm
				Max.	Min.		
7890-7913	AT-08/II	M2-M8	700 rpm	1900 mm	200 mm	20 kgs	Fix
7890-7914	AT-08/II S	M2-M8	700 rpm	1900 mm	200 mm	20 kgs	Swivel
7890-7915	AT-12/II	M3-M12	400 rpm	1900 mm	200 mm	20 kgs	Fix
7890-7916	AT-12/II S	M3-M12	400 rpm	1900 mm	200 mm	20 kgs	Swivel
7890-7917	AT-16/II	M3-M16	400 rpm	1900 mm	200 mm	20 kgs	Fix
7890-7918	AT-16/II S	M3-M16	400 rpm	1900 mm	200 mm	20 kgs	Swivel

### ▶ 7890-7919 / 7890-7920



CODE No.	Mfg No.	Capacity	Spindle Speed	Working Radial		Net Weight	Type of arm
				Max.	Min.		
7890-7919	AT-20/II	M4-M20	150 / 400 rpm	1900 mm	200 mm	20 kgs	Fix
7890-7920	AT-20/II S	M4-M20	150 / 400 rpm	1900 mm	200 mm	20 kgs	Swivel



## HYDRAULIC PRESSES

TAIWAN

### ▶ 8 TON~35 TON

- Screw Type Ram
- Powerful Hydraulic Cylinder
- Working Table Heights Positions Easily Adjusted



▲ 15 Ton



▲ 8 Ton



▲ 15HD Ton



▲ 35 Ton

CODE No.	8 Ton	15 Ton	15HD Ton	35 Ton
Overall Height	1060 mm (41.73")	1310 mm (51.5")	1640 mm (64.56")	1730 mm (68.11")
Floor Space	500 x 300 mm	700 x 600 mm	860 x 750 mm	1080 x 850 mm
Table Positions	none	4 x 150 mm	7 x 90 mm	7 x 95 mm
Ram Travel	110 mm	110 mm	100 mm	110 mm
Screw Travel	-	70 mm	110 mm	80 mm
Max.work Width	300 mm	485 mm	628 mm	850 mm
Max.work Height	300 mm	1170 mm	696 mm	610 mm
Pressure	300 kg/cm <sup>3</sup>	400 kg/cm <sup>3</sup>	400 kg/cm <sup>3</sup>	300 kg/cm <sup>3</sup>
Cylinder Bore	80 mm	50 mm	80 mm	125 mm
Net Weight				

## BRAND ARBOR PRESS

TAIWAN

### ▶ NO.0~NO.5



#### STANDARD TYPE

- All main parts made of ductile cast iron.
- Adjustable handle gives convenient handle positioning.
- Ram finite control by smooth gears.
- 4-90 degree equally divided slotted round table.



#### RATCHET LEVERS TYPE

- This arbor press with all standard's feature. But operated with a ratchet device that will permit you to use the lever in the most convenient position, the lever has a counterweight for quick return after which the down stroke handwheel will advance the ram to the work quickly.

CODE No.	Overall Height	Stroke	Base	Arbor
No.0	254 mm (10")	114 mm	102 x 214 mm	19 x 19 x 190
No.1	304 mm (12")	133 mm	127 x 273 mm	25 x 25 x 2
No.2	432 mm (17")	215 mm	162 x 432 mm	32 x 32 x 2
No.3	546 mm (21")	317 mm	216 x 457 mm	38 x 38 x 456
No.5	860 mm (34")	460 mm	250 x 660 mm	45 x 45 x 67

REMARK-Ratchet Type Arbor Press available-No.2/3/5 only

## PORTABLE CHAMFERING TOOLS

TAIWAN



▲ VHCT-10

- Square Type: DIECAST COVER
- Chamfering Capacity: 3 mm
- Speeds: 12000 RPM
- Power Source: 110V or 220V



▲ IHCT-10

- Irregular Type: DIECAST COVER
- Chamfering Capacity: 3 mm
- Speeds: 12000 RPM
- Power Source: 110V or 220V



▲ PHCT-10

- Square Type : PLASTIC COVER
- Chamfering Capacity : 3 mm
- Speeds : 12000 RPM
- Power Source : 110V or 220V

## CHAMFERING MACHINE

TAIWAN



▲ FCRM-0004

### BUFFER TYPE

- Capacity: 0-3 mm
- Angle: 45°
- Speed: 3500 RPM
- HP: 1 HP 110V / 220V / 380V
- N.W: 25 kgs



▲ FCRM-0005

### SIDE CUTTER TYPE

- Capacity: 0-3 mm
- Angle: 15° - 45°
- Speed: 3500 RPM
- HP: 1 HP 3Ø 220V / 380V
- N.W: 26 kgs



▲ FCRM-0006

### GRINDING WHEEL TYPE

- Capacity: 0-3 mm
- Angle: Flyed 45°
- Speed: 3500 RPM
- HP: 1 HP 3Ø 220V or 380V
- N.W: 28 kgs



▲ FCRM-0006

### FACE CUTTER TYPE

- Capacity: 3 mm
- Angle: Flyed 45°
- Speed: 3500 RPM
- HP: 1 HP 110 / 220V / 380V
- N.W: 28 kgs

## DRILL GRINDING MACHINE (TWIN WHEEL)

TAIWAN

▶ 07820-1300~07826-2502



▲ SA-1300



▲ SA-2000



▲ SA-2500

CODE No.	Model	Dia. Capacity	Angle Capacity	Power	N.W.	G.W.	Fuse	Wheel	Collet	Dimension-mm
07820-1300	SA-1300	Ø3-Ø13 mm	90°-144° (Ø6~Ø13)	Single AC100~110V 50~60Hz	10 kg	11 kg	6A	CBN#200	ER-20	320 x 220 x 200
07822-1300		(Ø2 Optional)	118°-135° (Ø2~Ø6)	Single AC220~240V 50~60Hz			3A			
07827-2000	SA-2000	Ø3-Ø20 mm	90°-144° (Ø6~Ø20)	Single AC100~110V 50~60Hz	16 kg	17 kg	8A	CBN#200	ER-25	400 x 230 x 200
07828-2000		(Ø2 Optional)	118°-135° (Ø2~Ø6)	Single AC220~240V 50~60Hz			4A			
07824-2500	SA-2500	Ø13-Ø26 mm	90°-144° (Ø13~Ø26)	Single AC100~110V 50~60Hz	26 kg	27 kg	8A	CBN#140	ER-40	490 x 260 x 250
07826-2500		(Ø27~Ø30 Optional)	118°-135° (Ø27~Ø30)	Single AC220~240V 50~60Hz			4A			



▲ SA-1302



▲ SA-2002



▲ SA-2502

CODE No.	Model	Dia. Capacity	Angle Capacity	Power	N.W.	G.W.	Fuse	Wheel	Collet	Dimension
07820-1302	SA-1302	Ø3-Ø13 mm	90°-144° (Ø6~Ø13)	Single AC100~110V 50~60Hz	12 kg	13 kg	6A	CBN#200	ER-20	280 x 200 x 155
07822-1302		(Ø2 Optional)	118°-135° (Ø2~Ø6)	Single AC220~240V 50~60Hz			3A			
07827-2002	SA-2002	Ø3-Ø20 mm	90°-144° (Ø6~Ø20)	Single AC100~110V 50~60Hz	18 kg	19 kg	8A	CBN#200	ER-25	320 x 225 x 165
07828-2002		(Ø2 Optional)	118°-135° (Ø2~Ø6)	Single AC220~240V 50~60Hz			4A			
07824-2502	SA-2502	Ø13-Ø26 mm	90°-144° (Ø13~Ø26)	Single AC100~110V 50~60Hz	29 kg	30 kg	8A	CBN#140	ER-40	385 x 270 x 205
07826-2502		(Ø27~Ø30 Optional)	118°-135° (Ø27~Ø30)	Single AC220~240V 50~60Hz			4A			

## KUSH HAND SHEARS+RODS CUTTER



### ▶ 3S/4L~6R



#### HAND-OPERATED PLATE SHEARS

CODE No.	3S/4L	3S/4R	3S/5R	3S/6R
Plates	up to mm/ins 4 1/8	4 1/8	5 3/16	6 1/4
Flat bars	up to mm/ins 70 x 6 2-3/4 x 1/4	70 x 5 2-3/4 x 3/16	70 x 6 2-3/4 x 3/4	70 x 7 2-3/4 x 1/4
Round bars	up to mm/ins 13 1/2	15 3/8	11 7/16	13 1/2
Length of blade	mm/ins 300	120	160	200
Length of machine	mm/ins 495	265	320	385
Hight of machine (without lever)	mm/ins 300	175	205	280
Net.Weight, each	kg/lbs 34 75	8.5 19	12.5 28	24.5 54
Gross weight for 1 machine	approx. kg/lbs 46 101	14 31	22 48	33 73
Shipping volume for 1 machine	approx. m <sup>3</sup> /cuft. 0.07 2.47	0.02 0.7	0.03 1.0	0.05 1.77
Order No. For top blade	50011	50005	50007	50009
Order No. For bottom blade	50012	50006	50008	50010
Order No. For round knives	50203	50202	50202	50203

### ▶ 5RP/8N~10N



#### PLATE, SECTION AND BAR STOCK SHEAR

CODE No.	5RP/8N	5RP/10N
<b>Plate Shear</b>		
plate flats	up to mm/ins 8 5/16	10 3/8
L and ⊥ sections, makeshift in 2 or 3 strokes, at 90°, 45° and notching	up to mm/ins 80 x 12 3-1/8 x 1/2	90 x 14 3-1/2 x 9/16
Blade length	approx. mm/ins 70 x 7 2-3/4 x 1/4	80 x 8 3-1/8 x 5/16
<b>Bar Stock Shear</b>		
□Bars	up to mm/ins 175 7	175 7
○Bars	up to mm/ins 20 3/4	22 7/8
<b>Section Shear</b>		
⊥ sections at 90° in one stroke	up to mm/ins 50 x 6 2 x 1/4	60 x 7 2-3/8 x 1/4
⊥ sections at 90° in one stroke	up to mm/ins 50 x 6 2 x 1/4	60 x 7 2-3/8 x 1/4
Net weight	approx. kg/lbs 88 200	104 235
Gross weight	approx. kg/lbs 109 240	138 304
Volume	approx. m <sup>3</sup> /cuft. 0.16 5.6	0.23 8

### ▶ 50N/22



#### REINFORCING ROD CUTTING MACHINES

CODE No.50	50N/22					
	45 kp	64000	65 kp	92500	85 kp	92500
	mm <sup>2</sup>	psi	mm <sup>2</sup>	psi	mm <sup>2</sup>	psi
Will cut any length of rods up to a tensile strength of						
Round bars 1 rod	up to mm/ins 22 7/8	22 7/8	22 7/8	22 7/8	20 3/4	3/4
Round bars 2 rods	up to mm/ins 14 9/16	14 9/16	14 9/16	14 9/16	12 1/2	1/2
Round bars 3 rods	up to mm/ins 11 7/16	11 7/16	11 7/16	11 7/16	10 3/8	3/8
Squae bars 1 rod	up to mm/ins 19 3/4	19 3/4	19 3/4	19 3/4	18 11/16	11/16
Squae bars 2 rods	up to mm/ins 13 1/2	13 1/2	13 1/2	13 1/2	11 7/16	7/16
Squae bars 3 rods	up to mm/ins 10 3/8	10 3/8	10 3/8	10 3/8	9 3/8	3/8
Flat bars 25 mm=1"	up to mm/ins 25 x 15 1 x 9/16					
Length of blade	mm/ins 30	13/16				
Length of machine	mm/ins 300	12				
Height of machine (without hand lever)	mm/ins 130	5				
Net weight, one machine	approx. kg/lbs 25	55				
Shipping weight for 6 machines	approx. kg/lbs 170	374				
Shipping volume for 6 machines	approx. cbm/cu.ft. 0.15	5.3				

### ▶ 50N/28~32



#### REINFORCING ROD CUTTING MACHINES

CODE No.50	50N/28						50N/32					
	45kp	64000	65 kp	92500	85 kp	12100	45kp	64000	65 kp	92500	85kp	12100
	mm <sup>2</sup>	psi	mm <sup>2</sup>	psi	mm <sup>2</sup>	psi	mm <sup>2</sup>	psi	mm <sup>2</sup>	psi	mm <sup>2</sup>	psi
Will cut any length of rods up to a tensile strength of												
Round bars 1 rod	up to mm/ins 28 1-1/16	22 7/8	20 3/4	32 1-1/4	24 15/16	22 7/8	28 1-1/16	24 15/16	22 7/8	24 15/16	22 7/8	22 7/8
Round bars 2 rods	up to mm/ins 18 11/16	15 9/16	13 1/2	21 13/16	17 11/16	15 9/16	18 11/16	17 11/16	15 9/16	17 11/16	15 9/16	15 9/16
Round bars 3 rods	up to mm/ins 14 9/16	12 1/2	11 7/16	17 11/16	14 9/16	12 1/2	14 9/16	14 9/16	12 1/2	14 9/16	12 1/2	12 1/2
Squae bars 1 rod	up to mm/ins 26 1	20 3/4	18 11/16	28 11/16	22 7/8	20 3/4	26 1	22 7/8	20 3/4	22 7/8	20 3/4	20 3/4
Squae bars 2 rods	up to mm/ins 16 5/8	13 1/2	11 7/16	18 11/16	15 9/16	13 1/2	16 5/8	15 9/16	13 1/2	15 9/16	13 1/2	13 1/2
Squae bars 3 rods	up to mm/ins 13 1/2	11 7/16	9 3/8	15 9/16	12 1/2	11 7/16	13 1/2	12 1/2	11 7/16	12 1/2	11 7/16	11 7/16
Flat bars 40 mm=1 1/2"/45 mm=1 3/4"	up to mm/ins 40 x 45 1-1/2" x 9/16			40 x 45 1-3/4" x 9/16								
Length of blade	mm/ins 50	2		60 23/8								
Length of machine	mm/ins 420	16		510 20								
Height of machine (without hand lever)	mm/ins 180	7		190 8								
Net weight, one machine	approx. kg/lbs 45	99		49 108								
Shipping weight	approx. kg/lbs 195	429		216 519								
Shipping volume	approx. cbm/cu.ft. 0.22	7.8		0.35 12.4								

## AGP CORE DRILL WITH MAGNETIC BASE

▶ TP2000~ME7500

TAIWAN



▲ TP2000



▲ ME3000



▲ ME5000



▲ ME7500

CODE No.	TP2000	ME3000	ME5000	ME7500
Type	Auto-reverse	Semi-auto	2 speed	4 speed
Power	1100W	1100W	1800W	1800W
Annular cutter - Dia.xdeep	35 x 50 mm	30 x 45 mm	50 x 75 mm	75 x 50 mm
Drilling Cap. - Dia.x Deep	15 x 80 mm	13 mm	16 mm	32 mm
Tapping Capacity - Dia.x deep	19 x 30 mm	n / a	n / a	25 mm
Magnetic base adhesion	15000 N	15000 N	20000 N	22500 N
No. / Full load rpm	550 / 330 rpm	620 / 350 rpm	I-380 / 230 II-500 / 300 rpm	I-210 / 120 II-270 / 160 rpm III-410 / 290 IIII-530 / 310 rpm
Net Weight	13.7 Kgs (30.8 Lbs)	17 Kgs (37.4 Lbs)	21 Kgs (46.2 Lbs)	23.7 Kgs (60.2 Lbs)

## TOOL & DRILL GRINDERS

▶ U2~CB-309

TAIWAN



▲ U2



▲ SBM 20 / 50 / 80



▲ CB-309

CODE No.	U2	CODE No.	SBM 20 / 50 / 80	CODE No.	CB-309
Max. collet capacity	18 mm	Grinding capacity	0.5-20 / 5-52 / 8-80 mm	Motor	3/4 Hp
Max. grinding dia.	25 mm	Spindle speed	10000 / 6000 / 4500 U/min	Full Loading	3450 Rpm
Taper angle	0-180 Deg.	Base dimension	SBM 20 : 360 x 200 mm	Amps	10/5
Relief angle	0-45 Deg.		SBM 50 : 470 x 280 mm	Single or hree Phase	11-380
Negative angle	0-26 Deg.	Volts	SBM 80 : 470 x 280 mm	Volts	50 / 60 Hz
Grinding spindle speeds	3600 RPM	Net weight	15 / 25 / 25 kgs	Net Weight	50 kgs / 110 lbs
Cup grinding wheel	100 x 50 x 20 mm				

## HORIZONTAL METAL CUTTING BAND SAWS (EUROPEAN TYPE)

▶ SBS-085~SBS-150

TAIWAN



▲ SBS-085



▲ SBS-125



▲ SBS-150

CODE No.	SBS-085	SBS-125	SBS-150
Cutting capacity	90°	0°	•150 mm ■ 140 x 140 mm ■ 150 x 140 mm
	45°	45°	• 90 mm ■ 90 x 90 mm ■ 100 x 90 mm
	60°	60°	• 65 mm ■ 65 x 65 mm ■ 65 x 70 mm
Motor	850 W 1~	1250 W 1~	1800 W 1~
Gear step	Variable Speed 30 ~ 72 m/min	Variable Speed 30 ~ 72 m/min	Variable Speed 30 ~ 72 m/min
Blade size W x T x L	13 x 0.65 x 1325 mm	13 x 0.65 x 1325 mm	13 x 0.9 x 1735 mm
Dimension L x W x H	680 x 290 x 480 mm	680 x 290 x 480 mm	900 x 350 x 500 mm
N.W. / G.W.	15 / 16 kgs	15 / 16 kgs	56 / 60 kgs

## CNC SHANKS / TOOLINGS STORAGE WAGON

TAIWAN

### ▶ 9009-0004~9009-0006

- Knock Down packing 0 or 25 degree tray setting.
- 5" x 2" mobile ball castor for heavy loading.
- Thick ness of steel plate - 1.6mm



CODE No.	Dimension	Loading Capacity
9009-0004	1002 / 650 / 830 mm (39.5 / 25.6 / 32.7")	44 kgs.
9009-0005	1002 / 650 / 830 mm (39.5 / 25.6 / 32.7")	48 kgs.
9009-0006	1002 / 650 / 830 mm (39.5 / 25.6 / 32.7")	48 kgs.

## ULTRA WORKING & HANGING CARTS

TAIWAN

### ▶ 9009-5086~9009-5088

- With 2 x 180 deg. caster wheel and 2 fixing caster wheels.



CODE No.	Dimension		
9009-5086 Standard	500 x 873 x 880 mm	Adjustable shelves height	each shelves with EVA tray
9009-5087-with Drawer	500 x 873 x 880 mm	Adjustable shelves height	with three drawers
9009-5088 Economical	500 x 873 x 880 mm	Adjustable shelves height	each shelves with EVA tray

## PROFESSIONAL TOOL AND GRINDING RACK/CARTS

TAIWAN

### ▶ 9009-6558 / 9009-6589



CODE No.	9009-6558 for Toolings	9009-6589 for Grinding Wheels
Dimension	653 x 600 x 1460 mm (castor excluded)	653 x 600 x 1460 mm (excluded castor )
Loading Capacity	200 kgs	200 kgs
	0 or 25 degree tray setting-max. per 8 shelves adjustable shelves in various height	Max. 32 grinding wheel (4 shelves) adjustable shelves in various height.
	Knock down packing	mobile castor wheel available as option

## ULTRA HEAVY DUTY WORKING BENCH

▶ 9009-210S~9009-150R

TAIWAN



CODE No.	Table Size	Table Top	Table Surface Size	Total Height
9009-210S	2100 x 810 mm	1.2 mm thickness x stainless NO.304	2100 x 750 x 52 mm	1606 mm (w/o levelling bolt)
9009-180S	1800 x 810 mm		1800 x 750 x 52 mm	
9009-150S	1500 x 810 mm	scrutch resistance PVC	1500 x 750 x 52 mm	
9009-200R	2100 x 810 mm		2100 x 750 x 52 mm	
9009-180R	1800 x 810 mm		1800 x 810 x 52 mm	
9009-150R	1500 x 810 mm		1500 x 750 x 52 mm	

## MAINPARTS FOR ALL SIZE OF WORKING BE AS OPTIONAL

TAIWAN



### ① Peg Boards

CODE No.	Size (mm)
9009-1001	1000 x 400 x 20
9009-1002	1400 x 400 x 20
9009-1003	1040 x 1104 x 70
9009-1004	1440 x 1104 x 70



### ② Multi Purpose peg board

CODE No.	Size (mm)
9009-1005	1040 x 1104 x 352
9009-1006	1440 x 1104 x 352
9009-1007	2050 x 1104 x 70
9009-1008	1040 x 1104 x 352
9009-1009	1440 x 1140 x 352



### ③ Shelf

CODE No.	Size (mm)
9009-1010	1007 x 37.8 x 280
9009-1011	1440 x 37.8 x 280



### ④ Hanging Pack

CODE No.	Size (mm)
9009-1012	1400 x 97 x 22.2



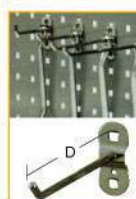
### ⑤ Fixed working light unit

CODE No.	Size (mm)
9009-1013	980 x 270 x 538
9009-1014	1380 x 270 x 538



### ⑥ Electrical box

CODE No.	Size (mm)
9009-1015	223 x 83 x 77



### ⑦ Angle end single hook

CODE No.	Size (mm)
9009-1016	100 mm length
9009-1017	140 mm length
9009-1018	190 mm length



### ⑧ Vertical end double hook

CODE No.	Size (mm)
9009-1019	35 x 50
9009-1020	35 x 80
9009-1021	35 x 100



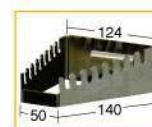
### ⑨ Spring clip

CODE No.	Size (mm)
9009-1022	28 mm length
9009-1023	38 mm length



### ⑩ Ring hook

CODE No.	Size (mm)
9009-1024	W-26 mm
9009-1025	W-75 mm



### ⑪ Wrench holder

CODE No.	Size (mm)
9009-1026	140 mm (length) x 8 pcs



### ⑫ Screwdriver holder



### ⑬ Twist drill holder



### ⑭ Jar Holder -70 mm dia. x 70 mm depth

## PROFESSIONAL TOOLBOX MADE OF HIGH IMPACT PP OR ABS

TAIWAN

▶ 3333-0901-PP / ABS~3333-9042-PP



CODE No.	3333-0901-PP/ABS	3333-0905-PP/ABS	3333-0902-PP/ABS	3333-0800-PP/ABS
Dimension	380 x 175 x 140 mm	442 x 238 x 207 mm	442 x 238 x 207 mm	560 x 278D x 270 mm
N.W / G.W	8.95 / 9.95 Kgs	13.98 / 14.98 Kgs	11.76 / 13.76 Kgs	9.52 / 11.52 Kgs
Packing	10 pcs / ctn / 3.78 cuft.	6 pcs / ctn / 5.36 cuft.	6 pcs / ctn / 5.24 cuft.	4 pcs / ctn / 6.61 cuft.



CODE No.	3333-0611-ABS	3333-0102-ABS	3333-0104-ABS	3333-9042-PP
Dimension	440 x 205 x 136 mm	430 x 235D x 180 mm	423 x 205 x 224 mm	4213 x 205 x 180 mm
N.W / G.W	13.85 / 15.14 Kgs	10.98 / 12.18 Kgs	14.43 / 16.22 Kgs	13.5 / 15.08 Kgs
Packing	10 pcs/ctn/4.76 cuft	6 pcs / ctn / 4.07 cuft	6 pcs / ctn / 4.93 cuft	10 pcs / ctn / 5.88 cuft.

## STORAGE BIN

▶ 9099-1218~9099-4068

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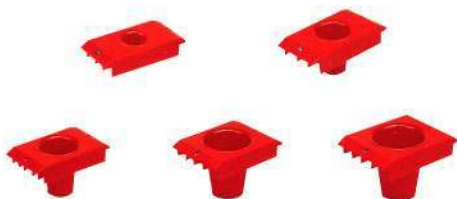


CODE No.	Dimension
9099-1218	121 x 180 x 84 mm
9099-1525	150 x 265 x 121mm
9099-2035	208 x 353 x 155mm
9099-2045	205 x 480 x 178mm
9099-3045	300 x 480 x 178mm
9099-4068	395 x 635 x 335mm

## TOOL-HOLDER INSERT-ABS

▶ 9009-0030~9009-0063

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CODE No.	Dimension	Shank
9009-0030	64 x 127 x 48 mm	BT#30
9009-0035	74 x 137 x 63 mm	BT#35
9009-0040	74 x 137 x 63 mm	BT#40
9009-0045	87 x 137 x 82 mm	BT#45
9009-0050	87 x 137 x 93 mm	BT#50
9009-0063	84 x 137 x 49 mm	HSK63

## TOOL HOLDER BENCH

TAIWAN

- Dimension - 595 x 143 x 225 mm / 23.4" x 5.63" x 8.86"
- Capacity for Inserts
- 8 pcs. Insert for BT #30
- 7 pcs. Insert for BT #35 or BT #40
- 6 pcs. Insert for BT #44 or HSK63
- 5 pcs. Insert for BT #50



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