

ENGINE LATHE

T-1236A



T-1340A



T-1340B



T-1440B



T-1440W



STANDARD ACCESSORIES:

3 jaw chuck, changing gears, dead center, reduction sleeve, oil gun, coolant system, working light

OPTIONAL ACCESSORIES:

4 jaw chuck, face plate, steady rest, follow rest, chasing dial indicator, liver center

OPTIONAL EQUIPMENTS:

Digital readout system (DRO), quick change tool post & holders, taper turning attachment

Model	Unit	T-1236A	T-1340A	T-1440A	T-1340B	T-1440B	T-1440W	
Max.swing over bed	mm	300	330	356	330	356	356	
Max.swing over cross slide	mm	180	198	224	198	220	210	
Max.swing in gap	mm	430	450	476	476	506	508	
Distance between centers	mm	910	1000					
Spindle nose		D4						
Spindle bore	mm	38					40	
Spindle bore taper		M.T.#5						
Spindle speed	rpm	65-1810(8steps)	70-2000(8steps)			45-1800(16steps)	40-1800(12steps)	
Longitudinal feed range	mm/rev	0.079-1.291	0.078-1.044	0.067-1.019	0.043-0.653			
Cross feed range	mm/rev	0.017-0.276	0.22-0.298	0.018-0.275	0.015-0.220			
Metric threads	mm	0.4-7	0.45-10	0.45-10	0.4-7			
Inch threads	TPI	4-60	2 1/4-40	3 1/2-80	4-112			
Tailstock bore taper		M.T.#3						
Main motor	kw	1.5				1.5/2.4		
Net weight/Gross weight	kg	540/590	560/600	580/620	495/595	750/880	1200/1300	
Packing dimension(L x W x H)	mm	1680 x 750 x 1420	1940 x 760 x 1520					

PRECISION GAP-BED LATHE

CM-400



CZ-400D



CL-400B



CL-500B



STANDARD ACCESSORIES:

3 jaw chuck, changing gears, dead center, reduction sleeve, oil gun, coolant system, working light

OPTIONAL ACCESSORIES:

4 jaw chuck, face plate, steady rest, follow rest, chasing dial indicator, liver center

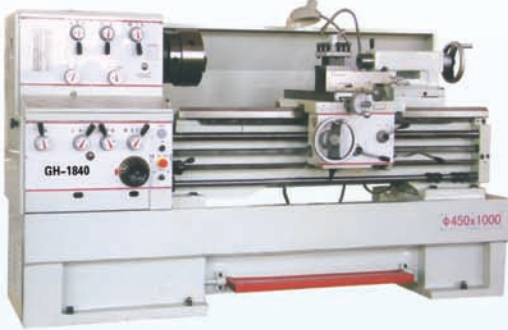
OPTIONAL EQUIPMENTS:

Digital readout system (DRO), quick change tool post & holders, taper turning attachment

Model	Unit	CM-400	CZ-400D	CL-400B	CL-500B
Swing over bed	mm	410	415	400	500
Swing over cross slide	mm	255	240	250	350
Swing in gap	mm	580	590	650	750
Distance between centers	mm	1000	1000, 1500	1000, 1500, 2000	
Spindle nose		D6			
Spindle bore	mm	52	65	80	
Spindle bore taper		M.T.#6		M.T.#7	
Spindle speed	r/min	45-1800(16 steps)	35-2000(16 steps)	42-1800(12 steps)	
Longitudinal feed range	mm/rev	0.05-1.7	0.039-1.1	0.041-2.476	
Cross feed range	mm/rev	0.025-0.85	0.018-0.55	0.016-0.991	
Metric threads range	mm	0.2-14(39kinds)	0.45-20(30kinds)	0.5-20(28kinds)	
Inch threads range	T.P.I	2-72(45kinds)	80-1 3/4(35kinds)	1 8/5-72(65kinds)	
Diametrical threads range	D.P.	8-44(21kinds)	160-3 1/2(30kinds)	3 1/4-96(45kinds)	
Module threads range	M.P.	0.3-3.5(18kinds)	0.25-10(25kinds)	0.25-10(24kinds)	
Main motor	kw	2.8/3.3	4/5.5	5.5	
Overall dimension(L x W x H)	mm	1940 x 850 x 1320	(2150,2650) x 960 x 1400	(2320,2820,3320)x1100x1360	
Packing size(L x W x H)	mm	2060 x 900 x 1640	(2300,2800) x 1060 x 1600	(2400,2900,3400)x1150x1400	
Net weight/Gross weight	kg	1550/1800	1450/1820, 1550/1870	1900/2150, 2200/2450, 2500/2750	

PRECISION GAP-BED LATHE

GH-1840



- Hyperacoustic quenched and accurate grinded bedway and dovetail of saddle;
- 80mm spindle bore;
- One piece cast iron base, with well rigidity;
- Hyperacoustic quenched and accurate grinded main drive gear;
- Forced lubrication of headstock by oil pump;
- Clutch assembled in apron for avoiding overload automatic feed;
- Demountable gapped bed is convenient to manufacture big diameter workpiece;
- Convenient to cut different threads without changing gears;
- Five positions are available for automatic feed stop;
- Foot brake gives rapid braking.

STANDARD ACCESSORIES:

3 jaw chuck, dead center, reduction sleeve, oil gun, coolant system, working light

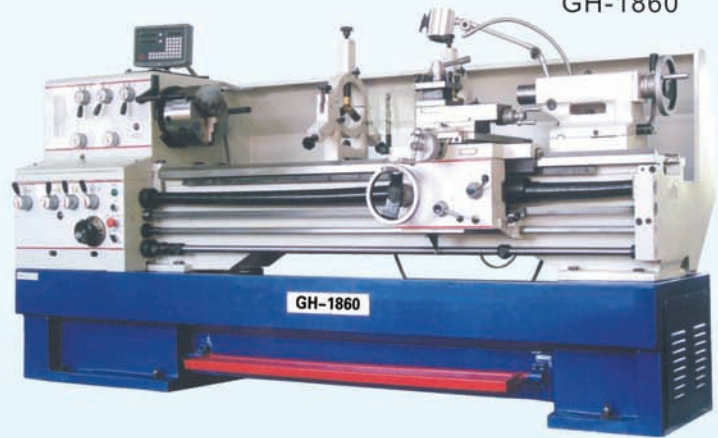
OPTIONAL ACCESSORIES:

4 jaw chuck, face plate, steady rest, follow rest, chasing dial indicator, liver center

OPTIONAL EQUIPMENTS:

Digital readout system (DRO), quick change tool post & holders, taper turning attachment

GH-1860



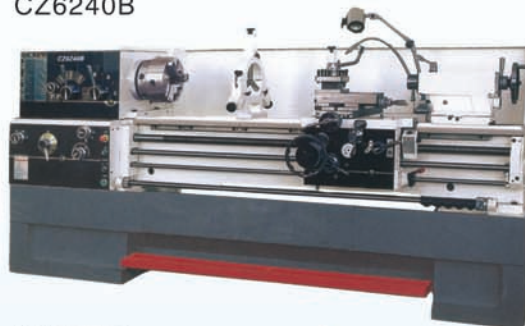
Model	Unit	GH-1640	GH-1660	GH-1840	GH-1860	GH-2060	GH-2080
Max.Swing over bed	mm	400 (13°)		450 (18°)		500 (20°)	
Max.Swing over cross slide	mm	222 (8.75°)		285 (11.2°)		330 (13°)	
Max.Swing in gap	mm	650 (25.63°)		696 (27.4°)		746 (29.4°)	
Max.Distance between centers	mm	1000 (40°) , 1500 (60°)				1500 (60°) , 2000 (80°)	
Bed width	mm	340				400	
Spindle bore	mm	80 (3-1/8°)					
Spindle nose		D-8					
Taper in spindle nose		MT#6					
Spindle speed steps		12steps					
Spindle speed range	r/min	40-1600rpm					
Longitudinal feed range	mm	0.0325~0.736 (0.0012°-0.0672°in/rev)					
Cross feed range	mm	0.014~0.736 (0.0005°-0.0288°in/rev)					
Metric thread range	mm	0.1-144 (41kinds)					
Inch thread range	TPI	2-112 (60kinds)					
Diametrical threads range	DP	4-112 (50kinds)					
Module threads range	MP	0.1-7 (34kinds)					
Diametrical of leadscrew	mm	36 (1.41°)					
Pitch thread of leadscrew	mm	6 (4T.P.I)					
Max.cross slide travel	mm	220 (9°)					
Max.compiond slide travel	mm	120 (4-3/4°)					
Taistock quill travel	mm	130 (5°)					
Diameter of tailstock quill	mm	70 (2-3/4°)					
Taper in taikstock quill		MT#4					
Main motor power	kw	5.5 (7-1/2HP)					
Grossweight /Net weight	kg	2600/2400		2800/2600		4060/3500	
Overall dimension(L × W × H)	mm	1970 × 800 × 1460		2920 × 1140 × 1680		3420 × 1140 × 1700	

PRECISION GAP-BED LATHE

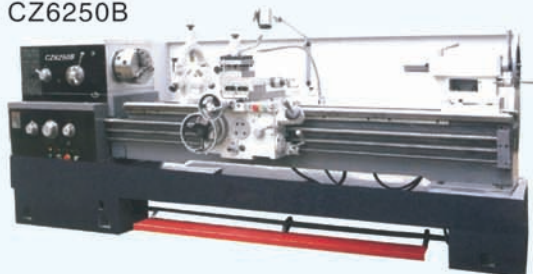
CZ6240A1



CZ6240B



CZ6250B



CZ6266C



STANDARD ACCESSORIES:

3 jaw chuck, dead center, reduction sleeve, oil gun, coolant system, working light

OPTIONAL ACCESSORIES:

4 jaw chuck, face plate, steady rest, follow rest, chasing dial indicator, liver center

OPTIONAL EQUIPMENTS:

Digital readout system (DRO), quick change tool post & holders, taper turning attachment

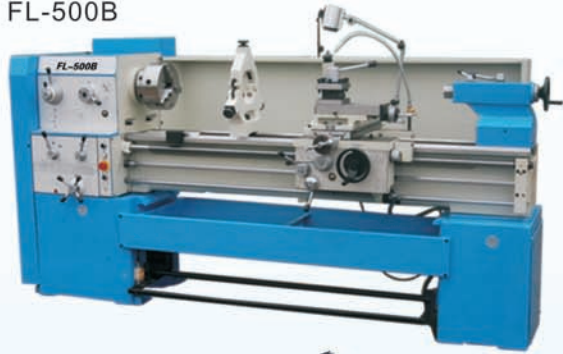
Model	Unit	CZ6240A CZ6240A1	CZ6246A CZ6246A1	CZ6240B	CZ6246B	CZ6250B CZ6250C	CZ6266B CZ6266C
Swing over bed	mm	400	460	410	460	500	660
Swing over cross slide	mm	255	275	250	290	310	420
Swing in gap	mm	570	630	660	700	720	870
Distance between centers	mm	1000/1500		1000/1500/2000		1000/1500/2000/3000	
Spindle bore	mm	52		80		80, (CZ6266C:105)	
Spindle bore taper		M.T.No.6		M.T.No.7		M.T.No.7, (CZ6266C:113mm 1:20)	
Spindle speed number		12					
Spindle speed range	r.p.m	40-1800		42-1800 or 25-1800		(B series: 9-1600), 36-1600	
Metric threads range	mm	(A series: 0.75/17), 0.5-20/24				(B series: 1-224 / 46), 1-14/22	
Inch threads range	T.P.I	(A series: 2-32/29), 72-1 5/8 /61				(B series: 28-1/8 / 46), 28-2/26	
Diametrical threads range	D.P.	(A series: —), 96-3 1/4 /45				(B series: 56-1/4 / 45), 56-4/24	
Module threads range	M.P.	(A series: 0.5-4.5), 0.25-10/20				(B series: 0.5-112 / 42), 0.5/7/18	
Longitudinal feed range	mm/rev	(A series: 0.07-1.67), 0.04-2.46				0.063-2.52	
Cross feed range	mm/rev	(A series: 0.04-1.98), 0.02-1.23				0.027-1.07	
Longitudinal rapid travel	m/min	—				4.5	
Cross rapid travel	m/min	—				1.9	
Max. travel of top slide	mm	100		100		145	
Max. travel of cross slide	mm	240		280		340 360	
Max. size of tool (W x H)	mm	20 x 20		25 x 25		25 x 25	
Tailstock sleeve diameter	mm	60		75		75	
Tailstock sleeve taper		M.T.No.4			M.T.No.5		M.T.No.5
Tailstock sleeve tavel	mm	120		130		150	
Main motor	kw	4/5.5		5.5(7.5HP)		7.5(10HP)	
Overall dimension (L x W x H)	mm	2330/2860 x 1000 x 1200		2310/2810 x 1000 x 1275	2310/2810/3320 x 1000 x 1295	2500/3000/3500/4500 x 900 x 1259	2500/3000/3500/4500 x 1100 x 1450
Net weight	kg	1810/1970	1860/2020	2485/2630	2635/2835/3055	2750/3000/3250/3600	3050/3350/3850/4350

PRECISION GAP-BED LATHE

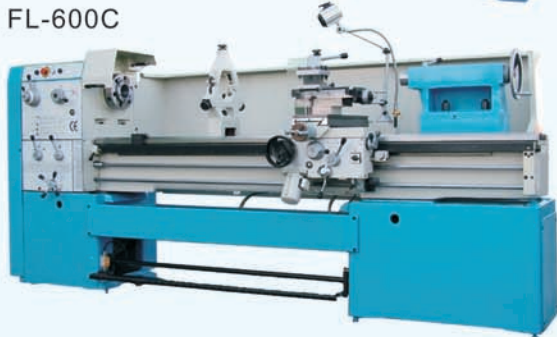
FL-400A



FL-500B



FL-600C



STANDARD ACCESSORIES:

3 jaw chuck, dead center, reduction sleeve, oil gun, coolant system, working light

OPTIONAL ACCESSORIES:

4 jaw chuck, face plate, steady rest, follow rest, chasing dial indicator, liver center

OPTIONAL EQUIPMENTS:

Digital readout system (DRO), quick change tool post & holders, taper turning attachment

Model	FL-400A	FL-400F	FL-500A	FL-500F	FL-400B FL-400C	FL-450B FL-450C	FL-500B FL-500C	FL-600B FL-600C
Max. swing over bed	400mm		500mm		400mm	450mm	500mm	600mm
Max. swing over cross slide	230mm		330mm		225mm	285mm	325mm	360mm
Max. swing in gap	560mm		660mm		530mm	580mm	630mm	730mm
Center distance	1000, 1500mm				1000, 1500, 2000mm			
Bed width	360mm				330mm			
Spindle hole	52mm				(B series: 65mm), 80mm			
Spindle nose	C6				(B series: ISO-C6 or ISO-D6), ISO-C8 or ISO-D8			
Spindle taper	Morse No. 6				(B series: Metric 70mm), Metric 85mm			
Spindle speeds	[A series: 40-1400rpm (9 Steps), 16-1600rpm (12 Steps)]				(B series: 22-1800rpm), 24-1600rpm (15 Steps)			
Metric threads range	[A series: 0.25-14mm (19 Steps), 0.25-7mm (17 Kinds)]				0.5-28mm (66 Kinds)			
Inch threads range	[A series: 2-40tpi], 5-144TPI (30 Kinds)				1-56TPI (66 Kinds)			
Module threads range	[A series: 0.5-3.5MP (11 Kinds), 0.25-3.5mm (12 Kinds)]				0.5-3.5MP (33 Kinds)			
Diametral threads range	[A series: —], 10-288D.P (30 Kinds)				8-56D.P (33 Kinds)			
Longitudinal feed range	—				0.072-4.038mm/rev			
Cross feed range	—				0.036-2.019mm/rev			
Longitudinal rapid travel	—				5m/min			
Max. travel of top slide	95mm				130mm			
Max. travel of cross slide	180mm		222mm		300			
Max. size of tool (W x H)	20 x 20mm				25 x 20mm			25 x 25mm
Tailstock sleeve diameter	65mm				75mm			
Tailstock sleeve taper	Morse No. 4				Morse No. 5			
Tailstock sleeve travel	140mm				120mm			
Main motor	4kw		5.5kw		7.5kw			
Net weight/Gross weight								
1000mm	1500/2150kg		1600/2250kg		1640/2250kg	1680/2330kg	1700/2350kg	1800/2500kg
1500mm	1650/2300kg		1750/2400kg		1850/2250kg	1890/2590kg	1910/2610kg	2010/2760kg
2000mm					2090/2860kg	2130/2880kg	2150/2920kg	2250/3070kg
PACKING SIZE(L x W x H)								
1000mm	2470 x 1150 x 1590mm				2460 x 1150 x 1800mm			
1500mm	2970 x 1150 x 1590mm				2950 x 1150 x 1800mm			
2000mm					3460 x 1150 x 1800mm			

PRECISION GAP-BED LATHE

CL-410/1500



CL-560/1500



STANDARD ACCESSORIES:

3 jaw chuck, dead center, reduction sleeve, oil gun, coolant system, working light

OPTIONAL ACCESSORIES:

4 jaw chuck, face plate, steady rest, follow rest, chasing dial indicator, liver center

OPTIONAL EQUIPMENTS:

Digital readout system (DRO), quick change tool post & holders, taper turning attachment

CL-660/2000



Model	CL-410	CL-460	CL-510	CL-560	CL-660	CL-800S	CL-800	
Swing over bed	410mm	460mm	510mm	560mm	660mm	800mm		
Swing over cross slide	220mm	270mm	300mm	350mm	440mm	570mm	560mm	
Swing in gap	640mm	690mm	738mm	788mm	900mm	1035mm	1040mm	
Distance between centers	1000mm/1500mm/2000mm		1500mm/2000mm		1500mm/2000mm/3000mm			
Valid length of gap	165mm		200mm		250mm			
Width of bed	300mm		350mm		400mm	400mm	510mm	
Spindle nose	D1-6		D1-8					
Spindle bore	58mm		80mm		105mm			
Taper of spindle bore	No.6 Morse		No.7Morse		113mm(1:20)/MT5			
Range of spindle speed	12 changes, 25-2000r/min		12changes25- 1600r/min		16changes25-1600rpm		16changes17-1100rpm	
Max.travel of top slide	128mm		130mm		230mm			
Max.travel of cross slide	285mm		326mm		368mm	420mm		
Max.section of tool	25 x 25mm							
Pitch thread of leads crew	6mm or 4T.P.I.				40mm x 2T.P.I. or 40mm x 12mm			
Longitudinal feeds range	42 kinds, 0.031-1.7mm/rev (0.0011"-0.0633"/rev)		35kinds, 0.059-1.646mm/rev (0.0022"-0.0612"/rev)		25 kinds, 0.044-1.48mm/rev\ (0.00165"-0.05497"/rev)			
Cross feeds range	42 kinds, 0.014-0.784mm/rev (0.00033"-0.01837"/rev)		35kinds, 0.020-0.573mm (0.00048"-0.01354")		25 kinds, 0.022-0.74mm/rev (0.00083"-0.02774"/rev)			
Metric threads range	41 kinds, 0.1-14mm		47kinds0.2-14mm		0.45-120mm (54 kinds)			
Inch threads range	60 kinds, 2-112TPI		60kinds2-112TPI		7/16-80TPI (54 kinds)			
Diametrical threads range	50 kinds, 4-112DP		50kinds4-112DP		7/8-160DP (42 kinds)			
Module threads range	34 kinds, 0.1-7MP		39kinds0.1-7MP		0.25-60MP (46 kinds)			
Dia. of tailstock sleeve	60mm		75mm		90mm			
Travel of tailstock sleeve	128mm		180mm		235mm			
Taper of tailstock sleeve	No.4 Morse		No.5Morse					
Power of main motor	5.5kw		7.5kw				11kw	
Power of coolant pump	0.1kw							
Overall dimension(L x W x H)	220/275/325 x 108 x 137cm		290/340 x 112 x 143cm		321/371/471 x 123 x 167cm		321/371/471 x 136 x 167cm	
Packing size(L x W x H)	225/280/330 x 112 x 162cm		296/346 x 113 x 182cm		324/374/474 x 114 x 191cm		324/374/474 x 127 x 191cm	
Net weight	1670/1920/2070kg	1720/1970/2120kg	2335/2685kg	2370/2720kg	2800/2900/3300kg	2850/3050/3450kg	3100/3300/3900kg	
Gross weight	1980/2265/2450kg	2045/2330/2515kg	2700/3070kg	2740/3110kg	3100/3200/3700kg	3180/3450/3980kg	3450/3750/4450kg	

PRECISION GAP-BED LATHE

- Can perform internal and external turning, taper turning, end facing, and other rotary parts turning;
- Threading Inch, Metric, Module and D.P.;
- Perform drilling, boring and groove broaching;
- Machine all kinds of flat stocks and those in irregular shapes;
- Respectively with through-hole spindle bore, that can hold barstocks in larger diameters;
- Both Inch and Metric system are used on these series lathes, it's easy for people from different measuring systems countries;
- There are hand brake and foot brake for users to choose;

STANDARD ACCESSORIES:

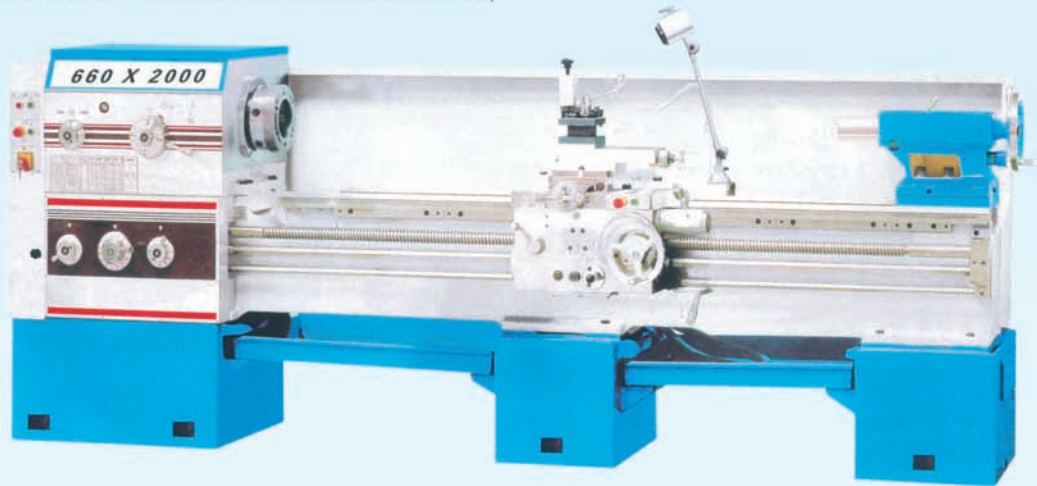
3 jaw chuck, dead center, reduction sleeve, oil gun, coolant system, working light

OPTIONAL ACCESSORIES:

4 jaw chuck, face plate, steady rest, follow rest, chasing dial indicator, liver center

OPTIONAL EQUIPMENTS:

Digital readout system (DRO), quick change tool post & holders, taper turning attachment



Model	Unit	TORNOS-6240B	TORNOS-6250B	TORNOS-6266B	TORNOS-6280B	TORNOS-6250C	TORNOS-6266C	TORNOS-6280C	
Max. swing over bed	mm	400	500	660	800	500	660	800	
Max. swing in gap	mm	630	710	870	1000	710	870	1000	
Max. swing over cross slides	mm	220	300	420	560	300	420	560	
Max. workpiece length	mm	1000/1500/2000/3000	1000/1500/2000/3000	2000/3000	1000/1500/2000/3000	2000/3000	1000/1500/2000/3000	2000/3000	
Spindle bore diameter	mm	52	82			105			
Type of spindle nose	no	TORNOS-6240B:ISO 702/III NO.6 bayonet lock ; others:ISO 702/II NO.8 com-lock type							
Spindle speed	rpm	24 steps 9-1600			24 steps 8-1400	12 steps 36-1600		12 steps 30-1400	
Diameter of tailstock quill	mm	75			90	75		90	
Max. travel of tailstock quill	mm	150							
Taper of tailstock quill (Morse)	MT	5							
Tool O.D. size	mm	25X25							
Max. travel of top slide	mm	145							
Max. travel of cross slide	mm	320					310	320	
Longitudinal feed range	mm/r	93 kinds 0.028-6.43				65 kinds 0.063-2.52			
Cross feed range	mm/r	93 kinds 0.012-2.73				65 kinds 0.027-1.07			
Metric threads range	mm	48 kinds 0.5-224				22 kinds 1-14			
Inch threads range	t.p.i	48 kinds 72-1/4				25 kinds 28-2			
Module threads range	π mm	42 kinds 0.5-112				18 kinds 0.5-7			
Diametrical threads range	t.p.i. π	42 kinds 56-1/4				24 kinds 56-4			
Main motor power	kw	7.5							
Cooling pump motor power	kw	0.06							
Overall dimension Length	mm	2632/3132/3632/4632	2632/3132/3632/4632	3365/4365	2632/3132/3632/4632	3365/4365	2632/3132/3632/4632	3365/4365	
Overall dimension Width	mm	975	1050	1340	975	1340	975	1340	
Overall dimension Height	mm	1230	1350	1430	1270	1450	1490	1490	
Net Weight	kg	2050/2250/2450/2850	2100/2300/2500/2900	2400/2600/2800/3000	3300/3700	2100/2300/2500/2900	2200/2400/2600/3000	3000/3200	

HEAVY-DUTY LATHE

FL-660Y/1500

- Precision ground;
- Clutched head stock;
- Safety torque limiting device for lead screw;
- Safety overload clutch for feed rod;
- Rapid traverse (optional);
- Main spindle supported at 2 points with precision taper roller bearings.



FL-1000A/3000

- Whole bed with side triangle ribs, boxing and slanting combined inside ribs structure;
- Wide range speeds driving system;
- The spindle bore is 130mm;
- With hydraulic control friction disk brake system, the spindle runs steady and safely;
- The upper too rest can feed automatically and joint the action of carriage;

Model	Unit	FL-600Y	FL-660Y	FL-800Y	FL-1000A	FL-1100A	FL-1250A
Swing over bed	mm	600	660	800	1000	1100	1250
Swing over cross slide	mm	375	435	545	630	730	850
Swing in gap	mm	800	860	1000	1240	1340	1490
Max. length of work piece	mm	1000/1500/2000/3000			1500/3000/4000/5000/6000		
Width of bedways	mm	400			600		
Spindle nose		ISO--C11 or ISO--D11			A2-15/C15		
Spindle bore	mm	103			130		
Range of spindle speeds/step	mm	18 (ccw/18)9-1275rpm		6 (cw/6) 16-816rpm	8.5-852(forward/reverse 18 steps each)		
Max. travel of compound rest	mm	110mm(41/3")			250		
Max. travel of cross slide	mm	325mm(124/5")			520	570	
Section of tool	mm	32 x 32mm			40 x 40		
Longitudinal feeds range	mm/rev	72kinds 0.073-4.066			0.1-12		
Cross feeds range	mm/rev	72kinds 0.036-2.033			0.05-6		
Metric threads range	mm	72kinds 0.5-112			64Kinds 1-240		
Inch threads range	TPI	72kinds 56-1/4			64Kinds 30-1/8		
Module threads range	M.P	36kinds 0.5-7			32Kinds 0.5-7.5		
Diametrical threads range	D.P	36kinds 56-4			32Kinds 60-4		
Dia. of tailstock sleeve	mm	90			140		
Morse taper of tailstock sleeve		Morse No.6			Metric80		
Travel of tailstock sleeve	mm	150			250		
Power of main motor	kw	7.5 or 11			15	15	18.5
Power of quick-travel motor	kw	0.25			1.5		
Power of coolant pump	w	125					
Packing Size(L x W x H) 1000mm	mm	3820 x 1300 x 2100			—		
1500mm		3320 x 1300 x 2100			4400 x 2000 x 2150		
2000mm		3820 x 1300 x 2100			—		
3000mm		4820 x 1300 x 2100			5800 x 2000 x 2150		
4000mm		—			6800 x 2000 x 2150		
5000mm		—			7800 x 2000 x 2150		
6000mm		—			8800 x 2000 x 2150		

HEAVY-DUTY LATHE

DL-630/3000

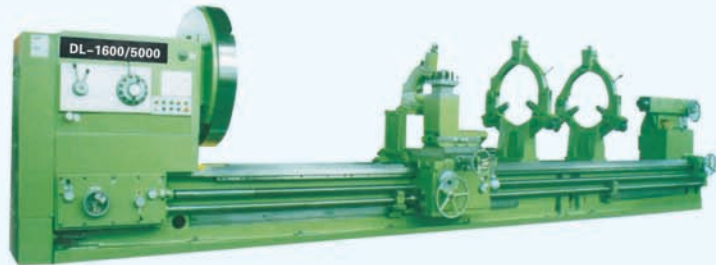


- These lathes can perform to turn end faces, cylindrical surfaces and internal holes of various parts as well as metric, inch, module and pitch threads;
- The top slides can be operated individually by power for cutting short taper surface;
- Long taper surface can be turned automatically through the compound movement combining longitudinal feed with the top slide feed;
- Moreover, the machines may be used for drilling, boring and trepaning.

DL-1600/5000

STANDARD ACCESSORIES:

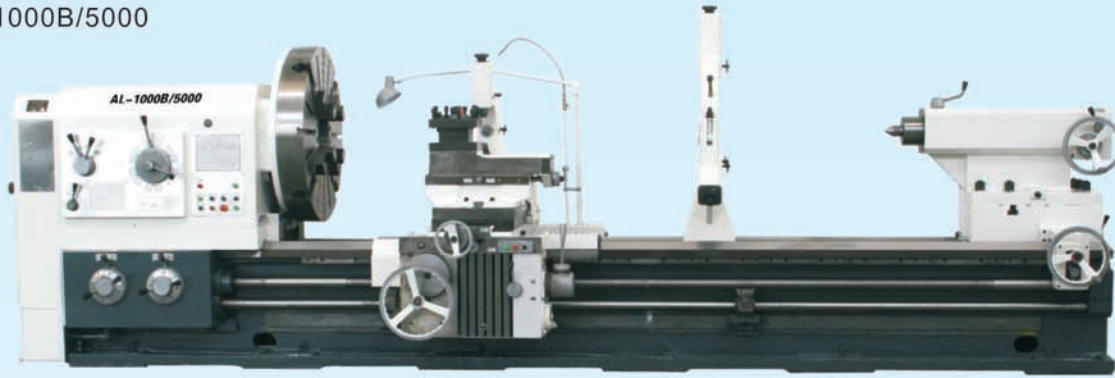
Four-jaw chuck, steady rest, follow rest, dead center, revolving center, light, coolant pump, tools



Model	Unit	DL-630	DL-700	DL-800	DL-1000	DL-1250	DL-1400	DL-1600
Max.swing diameter over bed	mm	630	710	800	1000	1250	1400	1600
Max.swing diameter over crossslide	mm	390	460	550	630	880	1030	1230
Max.swing over gap	mm	830	910	1000	1450	1700	1850	2050
Width of bed	mm	410			755			
Max.length of workpiece	mm	1000-8000			1000-10000			
Spindle nose		D11 or D1-11			A15			
Single bore diameter	mm	120			130			
Taper of spindle bore		Metric No. 120#			Metric No. 140#			
Range of spindle speed	r.p.m	12-1000(18kinds)			3.15-315(21kinds)			
Longitudinal feeds range	mm/r	0.082-1.59(36kinds)			0.1-12(56 kinds)			
Transversal feeds range	mm/r	0.027-0.522(35kinds)			0.05-6(56kinds)			
Metrec thread range	mm	1-192(57kinds)			0-120(44kinds)			
Inch thread range	T.P.I	2-24(30kinds)			3/8-28(31kinds)			
Modular thread range	M.P	0.25-48(40kinds)			0.5-60(45kinds)			
Diametrical pitch thread range	D.P	1-96 (37kinds)			1-56(25kinds)			
Tailstock sleeve taper		Morse NO.5			Morse NO.6			
Tailstock sleeve diameter	mm	100			140			
Tailstock sleeve travel	mm	250			300			
Main motor power	kw	7.5			22			
Rapid motor power	kw	0.25			1.5			
Coolant pump power	kw	0.125			0.125			

HEAVY-DUTY LATHE

AL-1000B/5000



- Bed is casted in whole piece, box type internal structure, high rigidity, with hardened guide way, TSF coated carriage to minimize the possibility of low speed stick-slip;
- Spindle bearing are famous brand, spindle-box of heat-symmetrical structure to avoid spindle axis drifting, oil lubricating to minimize heat distortion;
- Spindle with three support structure to secure accuracy and increase rigidity, all gears quenched and tooth-ground to secure precise transmission and low noise;
- Spindle is of low temperature rise, minimized heat distortion, and long-term steady high accuracy;
- Suitable for turning cast iron and steel work pieces, turning non-ferrous metal parts of big or medium sizes;
- Can do external cylindrical surface turning, inner hole and end face turning;
- Can also turn various internal and external metric, inch, module and diametrical pitch threads, the top slide can be used independently for turning of short taper;
- These lathes are of high power, high rigidity and wide rotating speed range, so it can be used for high speed and strong force turning.

Model	Unit	AL-800	AL-1000	AL-1000B	AL-1250B	AL-1600B	AL-1250	AL-1600	AL-2000
Swing over bed	mm	800	1000	1000	1250	1640	1250	1600	2000
Swing over carriage	mm	480	680	615	865	1250	900	1250	1650
Maximum length of workpiece	mm	1000/1500/2000/3000/4000/5000/6000		3000/5000/6000/8000/10000/12000/14000/16000/18000					
Maximum turning length	mm	850/1350/1850/2850/3850/4850/5850		2800/4800/5800/7800/9800/11800/13800/15800/17800					
Width of guideway	mm	600		755			1100		
Spindle nose	mm	C11 (C15 special)			A2-15				
Spindle bore	mm	100 (140 special)			130			100	
Taper hole of spindle		1:20			metric 140				
Number of forward turning speeds		18			21				
Number of reverse turning speeds		6			12				
Spindle speeds(forward)	r/min	5.5 - 750			3.15-315				
Spindle speeds(reverse)	r/min	10 - 775			3.5-291				
Number of feeds per revolution(longitudinal/transverse)		64/64			56/56				
Feed per revolution(Longitudinal)	mm	0.1-24.32			0.1-12(0.004"-0.473")				
Feed per revolution(Transverse)	mm	0.05-12.16			0.05-6(0.002"-0.236")				
Feed per revolution(Upper tool-post)	mm				0.025-3(0.001"-0.118")				
Number and range of metric thread	mm	50;1 - 240			44;1-120				
Number and range of inch thread	T.P.I	26;14 - 1			31;28- 1/4"				
Number and range of module thread	M.P	53;0.5 - 120			45;0.5-60mm				
Number and range of diametrical pitch thread	D.P	24;28 - 1			38; 1/2-56DP				
Distance between spindle center-line and tool resting plane	mm	33			48			48	
Section of tool shank	mm	□32			□45			□50	
Tool post swing range	°				±90°				
Maximum travel of top slide	mm	200			300			360	
Maximum travel of cross slide	mm	500			520(20")	580(22")	630(24")	740(29")	850(33")900(35")
Tool post travel per turn of the dials of top or cross slide	mm				0.05(0.002")				
Rapid travel speed(longitudinal)	mm/min	4000			3740				
Rapid travel speed(Transverse)	mm/min				1870				
Rapid travel speed(Top slide)	mm/min				935				
Diameter of tailstock quill	mm	100			160(6")			260	
Travel of tailstock quill	mm	250			300(12")				
Taper hole of tailstock quill					morse6			metric 80	
Main motor power	kw	11			22			30	
Rapid motor power	kw				1.2			1.5	
Coolant pump power	kw	0.125			0.125			0.125	

FLAT BED TYPE CNC LATHE

CK-400A



CK-660



- Variable frequency main motor;
- Step or servo type feed diving;
- Famous brand CNC controller;
- 4 or 6 stations electric or gang type tool post are available;

- Hydraulic type chuck, hydraulic tailstock is optional.
- Magnetic braking device is provided for spindle stopping.

Model	CK-300S	CK-360S	CK-400S	CK-400A	CK-460A	CK-500B	CK-660
Max. Swing over bed	300mm	360mm	400mm	400mm	460mm	500mm	660mm
Max. Swing over slide	135mm/100mm	180mm/100mm	240mm/150mm	210mm/165mm	250mm/205mm	310mm	430mm
Max. cross travel(X)	180mm/270mm	235mm/300mm		250mm/330mm		300mm	365mm
Max. Length of workpiece	500mm	500/750/1000mm	750/1000/1500mm			750/1000/1500/2000/3000mm	
Rapid feed for Axis X	8m/min						
Rapid feed for Axis Z	10m/min						
Range of spindle speeds	200-3500rpm	200-1800rpm		100-2000rpm		200-1600r/min(high), 25-250r/min(low)	20-150,150-433, 433-1300rpm
Spindle bore	38mm	40mm	52mm	80mm	80mm	80mm	105mm
Taper of spindle bore	MT No.5		MT No.6	MT No.7			1:20
Number of tools	4 or 6 or gang tools						
Size of tool shank	16 × 16mm	20 × 20mm		25 × 25mm		32 × 32mm	
Min input	0.001mm						
Repeatability(X/Z)	0.0075/0.01mm						
Power of main motor	3KW	3.7KW		5.5KW		7.5KW	11KW
Motor power of cooling pump	75W						
Overall dimensions(L × W × H)	1500×945×1380mm	1870/2120/2370 × 1200 × 1415mm		2060/2310/2790 × 1180 × 1500mm		2250/2500/3000/3500/ 4500 × 1200 × 1520mm	2250/2500/3000/ 3500 × 1250 × 1580mm
Net weight	950kg	1700/2000/2200kg	1800/2100/2300kg	2380/2580/3050kg	2380/2580/3050kg	3000/3300/3550/ 3800/4200kg	3500/3800/4050/ 4300/4700kg

SLANT BED TYPE CNC LATHE

KD-15



KD-20A



- Slant bed;
- Hydraulic chuck
- Hydraulic tool turret;
- Hydraulic tail-stock (if any);
- Precision linear rolling guide ways;
- High speed spindle;
- FAUNC Oi mate TD controller;
- Auto lubricating;
- Auto chip removal device is optional.

KD-40B



Model	KD-15/KD-15B	KD-25	KD-20A	KD-25A	KD-40A	KD-25B	KD-40B
Max. swing over bed	360mm	500mm	410mm	500mm	750mm	500mm	700mm
Max. cutting dia. for disc parts	250mm	420mm	360mm	300mm	500mm	400mm	670mm
Max. cutting dia. for axle parts	150mm	250mm	200mm	250mm	350mm	150mm	440mm
Max. turning length	300mm	500mm	350mm	400mm	870mm	685mm	1000mm
Max. cross travel (X)	150mm	220mm	180mm	180mm	370mm	205mm	365mm
Max. Longitudinal travel (Z)	320mm	550mm	420mm	500mm	1050mm	830mm	1050mm
Rapid feed for Axis X	12/10m/min	12m/min	9m/min	10m/min	10m/min	7m/min	7m/min
Rapid feed for Axis Z	20/16m/min	20m/min	20m/min	20m/min	20m/min	12m/min	12m/min
Max. speed of spindle	6000/4000r/min	4000r/min	4000r/min, 3000r/min	3000r/min	100-2000r/min	200-2800r/min	20-150, 150-433, 433-1300r/min
Spindle bore	40mm	65mm	63mm	62mm	105mm	52mm	105mm
Hydraulic chuck	6"	8"	6"/8"	8"	12"	8"	8"
Number of tools	8	12	8	8	12	8	8
Outside dia. Of cutting tool shank	20 x 20mm	25 x 25mm	20 x 20mm	25 x 25mm	25 x 25mm	20 x 20mm	32 x 32mm
Internal dia. Of cutting tool shank	25mm	32mm	25mm	32mm	32mm	25mm	32mm
Min. input	0.001mm	0.001mm					
Repeatability(X/Z)	0.005mm/0.006mm	0.005mm/0.006mm				0.075mm/0.01mm	
Bed structure	45° slant bed integrated with stand		60° slant bed integrated with stand	30° slant bed integrated with stand	30° slant bed integrated with stand	45° slant bed integrated with stand	
Guide ways X&Z	Precision linear ball rail					Square(Z), Dovetail(X)	
Main motor power	5.5/7.5kw	11/15kw	5.5kw	7.5kw	15kw	5.5kw	11kw
Capacity for coolant	100L	120L	100L	150L	150L	100L	120L
Overall dimensions(L x W x H)	2700 x 1460 x 1680mm	3712 x 1660 x 1850mm	2435 x 1270 x 1660mm	1950 x 1650 x 1680mm	3375 x 2250 x 1965mm	2690 x 1525 x 1650mm	4400 x 2050 x 2000mm
Net weight	3000kg	4500kg	3500kg	3400kg	8000kg	4000kg	5500kg

SLANT BED TYPE CNC LATHE

BK-400



- FANUC Oi CNC system;
- FANUC digital AC spindle and servo motor;
- Hydraulic power unit;
- Hydraulic chuck;
- 12-station turret;
- Coolant supply system;
- Lubrication unit;
- Operation & maintenance manual ;
- General tools;
- Leveling pad plates and a special bend plate.

- 30° slant bed;
- 8" high-speed hollow hydraulic 3 jaw
- Chuck and soft jaws;
- 10 stations hydraulic tool turret;
- Precision high-rigidity linear rolling guide ways;
- High speed spindle unit (4000rpm);
- FAUNC Oi mate TD controller, 7.5 kw servo type motor;
- Auto lubricating;
- Auto chip removal device;
- Hydraulic tailstock for LK-540B.

LK-540B



Model	BK-400	BK-500	BK-550	BK-670
Max.swing dia .over bed(mm)	400	500	550	670
Max.swing dia.over slide(mm)	260	320	370	470
Max.turning diameter(mm)	285	370	450	600
Max.turning length(mm)	400	530	1000	1500
Max.bar diameter(mm)	Φ42	Φ51	Φ73	Φ90
Type of spindle nose	A2-5	A2-6	A2-8	A2-8
Spindle bore diameter(mm)	Φ57	Φ62	Φ87	Φ105
Chuck diameter(mm)	Φ165	Φ210	Φ254	Φ305
Spindle speeds(rpm)	55-5500	40-4000	30-3000	25-2500
Spindle motor power(kw)	11/15	11/15	15/18.5	22/30
Quill diameter(mm)	Φ70	Φ90	Φ100	Φ110
Quill travel(mm)	80	100	100	150
Taper of center	Morse No.4/2	Morse No.5/4	Morse No.5/4	Morse No.6/5
Travel X/Z(mm)	165/410	210/550	250/1010	325/1550
Rapid traverse rate X/Z (m/min)	12/16	12/16	12/16	12/16
Servo motor torque X/Z(kn)	8/12	8/12	12/22	12/22
Number of stations	12/8	12/8	12/8	8/12
Tool size(turning/boring)(mm)	20 x 20/Φ32	20 x 20/Φ40	25 x 25/Φ40	32 x 32/Φ50
Slant degree of bed	45°	45°	45°	60°
Dimensions(L x W x H)(mm)	2540 x 1670 x 1710	2840 x 1800 x 1850	3730 x 1850 x 1930	4830 x 2180 x 2180
Weight(kg)	3000	4500	5000	8300

Model	LK-540	LK-540B
Max. swing over bed (mm)	540	540
Max. swing over carriage (mm)	270	270
Max. workpiece dia.(mm)	400	400
Max. workpiece length (mm)	235	600
Size of chuck	8"	8"
X, Z axes travel(mm)	245; 275	220; 660
Spindle speed (rpm)	4000	4000
Spindle nose	A2-6	A2-6
Spindle bore (mm)	Φ65	Φ65
Spindle bore dia. (mm)	Φ52	Φ52
Tool numbers (pcs)	10	10
Square tool size (mm)	20x20	20x20
Round tool dia (mm)	Φ25	Φ25
Rapid moving (m/min)	X: 18 Z: 24	X: 18 Z: 24
Tailstock dia.; travel (mm)		Φ65; 100
Main motor (kw)	7.5	7.5
Package size (L x W x H)(mm)	2490x1820x2120	2860x1820x2120
	2300x800x1600	2600x800x1600
N.W./G.W. (kg)	3200/3500	3500/3800

FULL FUNCTION CNC LATHE

AK-35



AK-25



- These lathes are semi-closed loop CNC machine tools suitable to turn various complicated shaft, sleeve and disklike workpieces, such as turning of internal and external cylindrical, conical and other circumgyration surface as well as various metric, inch, modular and diametric pitch threads;
- They can also be used for oil grooves and keyways broaching, end-facing, grooving and chamfering etc;
- Besides turning applications, high speed and high efficiency turning center (M series) can also be used to drill and mill for various complicated work-piece machining by its X/Z/C 3-axis combined motion.

Model	Unit	AK-10	AK-15	AK-15B	AK-15M	AK-25	AK-25M	AK-35	AK-35M	AK-45
Swing over bed	mm	360	440	440	440	520	520	660	660	850
Max.turning dia	mm	300	300	320	300	420	420	550	420	800
Max.turning dia over carriage	mm	170	255	220	220	360	300	420	420	650
Max.turning length	mm	500/700/1000	450	500/750	450	530/905/1405/1905	530	780/1530/1890/2890	780	920/1420/1920/2920
Distance between centers	mm	600/750/1100	600	600/850	600	625/1000/1500/2000	625	890/1640/2000/3000	890	1000/1500/2000/3000
Max.bar capacity	mm	36	52			70	72	80		120
X-axis travel	mm	170	180	190	180	230	230	305	352	450
Z-axis travel	mm	510/760/1010	480	510/760	510	590/965/1465/1965	590	855/1605/1965/2965	855	950/1450/1950/2950
Rapid traverse(x-and z-axis)	m/min	18/20				12.0/15				
Cutting feed(x-and z-axis)	mm/min	5000								
Hand feed(x-and z-axis)	mm/min	1260								
Spindle speed	rpm	50-5000	50-4500			35-3500		25-2500		0-2000
Spindle nose	mm	A2-5	A2-6			A2-8			A2-11	
Size of chuck	inch	6"	8"			10"		12"		15"
Spindle front end bearing(dia)	mm	80	100			130		160		200
Spindle bore(dia)	mm	50	62			87		92		131
C-axis indexing(incrmentle unit)		—	—	—	0.001	—	0.001	—	0.001	—
Number of stations		8				12				
Indexing time	s	0.58				0.9				
Tool shank size	mm	25 x 25								32 x 32
Boring bar shank dia	mm	32	40				50		60	
Tool speed	rpm	—	—	—	40-4000	—	40-4000	—	70-2000	—
Main spindle motor	kw	7.5/11	9.0/11			18.5/15		30/22		100
X-axis servo motor	kw	1.2	1.6				3			4
Z-axis servo motor	kw	1.8	3	1.6	3			4		7
Tool driving motor	kw	—	—	—	3.7/2.2	—	α3/10000	—	α3/10000	—
Max travel of tailstock	mm	360/610/860	460	360/610	460	490/865/1365/1865	490	760/1500/1900/2900	760	900/1400/1900/2900
Tailstock quill dia	mm	80				85		110		140
Tailstock travel	mm	100	130	100	130	80		100		130
Tailstock quill taper hole		MT-4				MT-5				MT-6
Coolant capacity	L	120	200	120	200	200/230/280/330	200	200/250/280/350	200	450
Power	kw	20	25			30		46	50	—
Machine weight	kg	3500/4000	4500	4500/5000	4500	5000/5500/6500/7500	5000	8000/10000/11000/15000	8500	12000/15000/18000/2000
Machine height	mm	1700	1650	1820	1650	1950		2130		—
Floor space	mm ²	2255/2705/ 3180 x 1460	2270 x 1470	2255/2710 x 1460	2270 x 1470	3000/3380 x 1545, 4550 x 1630, 4960 x 1900	3000 x 1545	3620 x 1820, 4725 x 1840, 5825 x 1900, 7000 x 2200	3720 x 1820	6820 x 2320
X-axis positioning accruacy	mm	R:0.01, B:0.012, A:0.025								
Z-axis positioning accruacy	mm	R:0.007, B:0.006, A:0.016								
CNC system:FANUC SERIES, SIEMENS SERIES, MITSUBISHI SERIES										

R:Repeat Positioning accwrcy, B:Reverse warp, A:Postioning a ccruacy

CNC VERTICAL LATHE

VK-500



VK-600



- Compact structure, rigid spindle component and good for heavy cutting;
- Easy to chuck and remove, work piece roundness and other precision are ensured;
- The turret on the slide moves along longitudinal or cross rails;
- There are three cross rails to support the slide;
- Ball screws and linear rails are used to ensure smooth feed and high precision;
- Different handles, electric buttons and CRT displayer are all on the same rocking panel for easy operation;
- Machine totally sealed guard structure.

Model	Unit	VK-500	VK-600	VK-800
Swing over bed	mm	530	800	1000
Max.turning diameter	mm	500	600	800
Max.turning height	mm	450	600	800
Speed range	r/min	100-2000	45-1000	50-2000
Spindle nose		A2-8	A2-11	A2-15
Spindle bearing diameter(front)	mm	120	160	200
Stroke of X-axis	mm	50-250	50-500	50-800
Stroke of Z-axis	mm	450	650	850
Rapid speed of X-axis	m/min	8	12	10
Rapid speed of Z-axis	m/min	10	12	10
Accuracy of positioning X/Z-axis	mm	0.018/0.02	0.018/0.02	0.018/0.02
Repeat location accuracy X/Z-axis	mm	0.006/0.01	0.006/0.01	0.006/0.01
Type of tool post		Horizontal 8-position	Vertical 6-position	Vertical 6-position
Shank external cutting tool	mm	25X25	32 x 32	32 x 32
Boring tool	mm	Φ 40	Φ 32, Φ 40, Φ 50	Φ 32, Φ 40, Φ 50
Main motor	kw	11	15	30/37
Motor of cooling pump	kw	0.9	1.1	1.1
Overall dimensions : L	mm	1590	3340	2642
Overall dimensions : W	mm	2670	2630	3478
Overall dimensions : H	mm	2545	3060	3638
Net weight	kg	5500	12000	15000

CNC PIPE THREAD LATHE(OIL COUNTRY LATHE)

QK-190A



QK-350A



Model	Unit	QK-120A	QK-190A	QK-260A	QK-350A	QK-460A
Swing over bed	mm	770		1000	1100	1250
Swing over carriage	mm	480		630	730	900
External diameter of pipes (manual chuck)	mm	120	190	70-260	114-340	300-460
External diameter of pipes (hydraulic chuck)	mm	---	---	---	127-340	---
External diameter of pipes (pneumatic chuck)	mm	---	---	---	---	---
Maximum length of workpiece	mm	750/1000/1500/2000/3000		1500/3000/5000/1500/3000/5000		3000
Maximum turning length	mm	600/800/1350/1850/2850		1300/2800/4800/1300/2800/4800		2800
Width of guideway	mm	550		755		1100
Spindle nose		C11		A2-15		A2-28
Step of Spindle speed(Three-phase asyn-chronous motor)		manual 3 steps, auto 6 steps 16 speeds	manual 2 steps, auto 4 steps 8 speeds	---	---	---
Step of Spindle speed (Variable frequency motor)		---	---	auto 4 gear steps, stepless speed change in the step.		
Range of spindle speed(Three-phase asyn-chronous motor)		25-800	90-450	---	---	---
Range of spindle speed (Variable frequency motor)		---	---	6-400	5-320	5-200
Main motor power(Three-phase asyn-chronous motor)	kw	11		---	---	---
Main motor power (Variable frequency motor)		130	200	18.5		28/38
Spindle bore	mm	★manual 3jaw Φ380	★manual 3jaw Φ500	275	355	465
Chuck type(manual chuck)		---	---	★manual 4jaw Φ630	★manual 4jaw Φ800	★manual 4jaw Φ630
Chuck type(hydraulic chuck)		---	---	---	▲3jaw Φ760	---
External diameter of pipes (pneumatic chuck)		---	---	---	---	---
Center height from bed	mm	385		500	550	650
Min.feed increment of X-/Z-axis	mm	0.001/0.001				
Rapid speeds of X-/Z-axis	mm/min	3000/6000				
Max.travel of x-axis	mm	390		630		800
Tool-post working position		Vertical 4-position □240		Vertical 4-position □300		
Indexing time	s	2.5		4		
Indexing repeatability	mm	0.008		0.01		
Section of tool shank	mm	□32		□40		
Diameter of tailstock quill	mm	100		160		
Travel of tailstock quill	mm	250		300		
Taper hole of tailstock quill		Morse 5		Morse 6		
Workpiece accuracy		IT6-IT7				
Surface roughness	μm	Ra1.6				
Machine Weight	kg	3700/3900/4200/4700/5200		9000/10000/13000		10000
Length	mm	2912/3227/3677/4177/5177		4800/6300/8300		6300
Width	mm	1800		2460		
Height	mm	1850		2120		

★Standard ▲Optional

MILLING DRILLING MACHINE

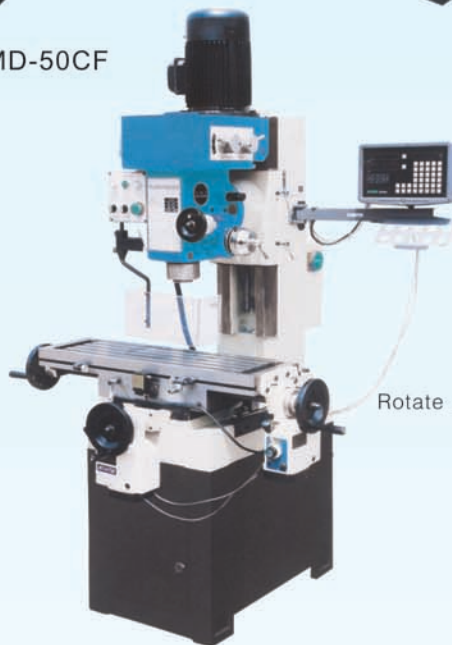


MD-50C

MD-40C



MD-50CF



Rotate $\pm 45^\circ$



Model	Unit	MD-32	MD-40	MD-40C	MD-50F/MD-50CF	MD-50/MD-50C
Max. drilling dia.	mm	32	40	40	50	50
Max. end milling dia.	mm	100	100	100	100	100
Max. vertical milling dia.	mm	20	20	20	25	32
Max. boring dia.	mm	120	120	120	120	100
Max. tapping dia.		-	-	M16	M16	M16
Distance from spindle nose to table	mm	120-500	120-550	0-440	0-420	500
Spindle taper	mm	MT4	MT4	MT4,ISO30	MT4,ISO30	MT4
Spindle speed range	r.p.m	168-3160	168-3160	65-1400	230-1825/115-1750	270-2400/115-1750
Spindle travel	mm	100	120	120	120	125
Table size	mm	800x240	800x240	800x240	800x240	260X1000
Table travel	mm	400x250	400x250	400x250	400x230x380	450X280X380
Main motor power	kw	1.5	1.5	1.1	0.85/1.5	0.85/1.5
N.W./G.W.	kg	350/380	410/460	430/550	500/600	760/700

MILLING DRILLING MACHINE

MD100



MD200



MD200H



MD300



MD400



MD500



Model	Unit	MD100/MD100H	MD200/MD200H	MD300/MD300H	MD400	MD500
Spindle taper		ISO30,R8(V), ISO30(H)	ISO30,R8,MT4(V), ISO30(H)	ISO40(V), ISO30(H)	MT4(V), ISO40(H)	ISO40(V), ISO40(H)
Distance from spindle to table	mm	70-420	70-420	90-420	90-410	110-410
Spindle speed	r.p.m	(8steps)230-1825(V), (8steps)60-1350(H)	(8steps)115-1750(V), (8steps)60-1350(H)	(8steps)90-2000, (8steps)60-1350(H)	(8steps)115-1750(V), (12steps)40-1300(H)	(8steps)115-1750(V), (12steps)40-1300(H)
Spindle travel	mm	120	120	120	120	120
Max. drilling capacity	mm	50	50	50	50	50
Head swivel		± 90°	± 90°	± 90°	± 90°	± 90°
Table size	mm	800x240	800x240	800x240	1120(1200)x280	1120(1200)x280
Tabletravel(Longitudinal/Cross/Verical)	mm	400/230/350	400/230/350	400/230/350	600/260/300	600/260/300
T slot(No./width/distance)	mm	3/14/60	3/14/60	3/14/60	3/14/70	3/14/70
Main motor	kw	0.85/1.5(V), 1.5(H)	0.85/1.5(V), 1.5(H)	1.5(V), 2.2(H)	0.85/1.5(V),2.2(H)	2.2(V), 2.2(H)
Overall dimension (L x W x H)	mm	1290x1220x2100	1290x1220x2100	1290x1220x2100	1660x1340x2130	1660x1340x2130
N.W./G.W.	kg	800/900, 850/1000	800/900, 850/1000	820/900, 870/1000	1250/1350	1300/1380

H/V HEAD MILLING DRILLING MACHINE

- Hardened and ground table surface;
- Automatic feeds on X, Y axes, motorized rise and fall of table on Z axis;
- Spindle sleeve can tap, automatic feed with 3 speeds (MD700, MD800);
- Headstock swivels $\pm 90^\circ$;
- Drill depth stop with display of measurement(MD700,MD800);
- Rectangular column guide way with high stability (MD800).

MD600



MD700



MD800



Model	Unit	MD600	MD700	MD800
Spindle taper		ISO40(V), ISO40(H)	ISO40(V), ISO40(H)	ISO40(V), ISO40(H)
Diameter of quill	mm	100	100	100
Distance from spindle to table	mm	90-370	90-370	90-490
Distance from horizontal spindle to table	mm	0-280	0-280	0-400
Distance from spindle to column	mm	200-700	200-700	200-700
Spindle speed	r.p.m	(8steps)115-1750(V), (12steps)40-1300(H)	(8steps)60-1500(V), (12steps)40-1300(H)	(8steps)90-2000(V), (12steps)40-1300(H)
Spindle travel	mm	120	120	120
Quill feed	mm	-	(3steps)0.15,0.08,0.25	(3steps)0.15,0.08,0.25
Max. drilling capacity of auto-feeding	mm	-	12	14
Head swivel		$\pm 90^\circ$	$\pm 90^\circ$	$\pm 90^\circ$
Table size	mm	1250x320	1250x320	1250(1370)x320
Table travel(Longitudinal/Cross/Verical)	mm	600/300/280	600/300/280	600(720)/300/400
X,Y axes feed speed	mm/min	22-555	22-555	22-555
X,Y axes rapid feed speed	mm/min	1080	1080	1080
Z axis rapid elevate speed	mm/min	590	590	590
Z axis rapid elevate motor power	w	750	750	750
Max. weight of workpiece	kg	200	200	300
T slot(No./width/distance)	mm	3/14/70	3/14/70	3/14/70
Main motor	kw	1.5(V), 2.2(H)	1.5(V), 2.2(H)	2.2(V), 2.2(H)
X,Y axes auto-feed drive motor	w	750	750	750
Coolant pump power	w	40	40	40
Overall dimension	mm	1780x1500x2100	1780x1500x2100	1700x1500x2270
N.W./G.W.	kg	1450/1550	1450/1550	1550/1650

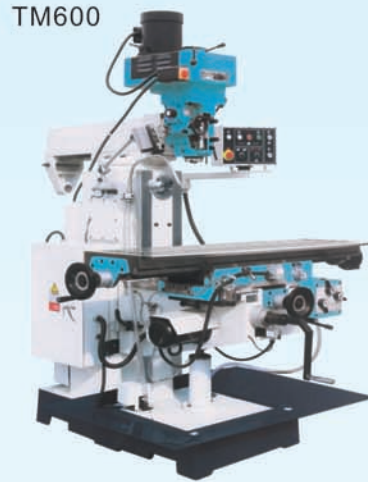
H/V HEAD MILLING DRILLING MACHINE



Model	Unit	WMD500	WMD500B	WMD500S	WMD500U	WMD600
Table size	mm	1120 × 260	1120 × 260	1120 × 260	1120 × 260	1120 × 260
Table travel	mm	600 × 300	600 × 270	600 × 300	600 × 300	600 × 270
Spindle taper		ISO40	ISO40	ISO40	ISO40	ISO40
Spindle speed range	r.p.m	90-2000(V),38-1310(H)	90-2000(V),38-1310(H)	90-2000(V),38-1310(H)	67-2010(V),38-1310(H)	115-1750(V),38-1310(H)
Max. drilling capacity	mm	50	50	50	50	50
Automatical drilling dia.	mm	14	14	14	14	-
Max. end milling dia.	mm	100	100	100	125	100
Max. vertical milling dia.	mm	25	25	25	25	25
Max. tapping dia.		M16	M16	M16	M16	M16
Distance from spindle nose to table	mm	100-430	100-430	100-430	115-430	100-460
Spindle travel	mm	120	120	120	120	120
Main motor	kw	2.2	2.2	2.2	1.5/2.2(V) ,2.2(H)	0.85/1.5(V) 2.2(H)
Overall dimension(L × W × H)	mm	1520 × 1285 × 2150	1520 × 1290 × 2150	1520 × 1285 × 2150	1580 × 1450 × 2150	1655 × 1450 × 2150
Net weight	kg	1350	1400	1350	1350	1500

H/V HEAD TURRET MILLING MACHINE

- Hardened and ground table surface;
- Automatic feeds on X, Y axes, motorized rise and fall of table on Z axis;
- Spindle sleeve can tap, automatic feed with 3 speeds;
- Headstock swivels $\pm 90^\circ$ from right to left, tilt $\pm 45^\circ$ from fore to back(TM500) ;
- Drill depth stop with display of measurement;
- Rectangular column guide way with high stability (TM600, TM700, TM800).



Model	Unit	TM500	TM600	TM700	TM800
Spindle taper		ISO40(V), ISO40(H)	ISO40(V), ISO40(H)	ISO40(V), ISO40(H)	ISO40(V), ISO50(H)
Diameter of quill	mm	95	120	120	120
Distance from spindle to table	mm	90-370	90-490	90-490	135-535
Distance from horizontal spindle to table	mm	0-280	0-400	0-400	230
Distance from spindle to column	mm	200-700	200-700	200-700	200-700
Spindle speed	r.p.m	(16steps)80-5440(V), (12steps)40-1300(H)	(16steps)70-7200(V), (12steps)40-1300(H)	(16steps)70-7200(V), (12steps)40-1300(H)	(16steps)70-7200(V), (12steps)60-1800(H)
Spindle travel	mm	127	145	145	145
Quill feed	mm	(3steps)0.15,0.08,0.25	(3steps)0.4,0.08,0.15	(3steps)0.4,0.08,0.15	(3steps)0.4,0.08,0.15
Max. drilling capacity of auto-feeding	mm	10	10	10	10
Head swivel(right to left)		$\pm 90^\circ$	$\pm 90^\circ$	$\pm 90^\circ$	$\pm 90^\circ$
Head tilt(fore to back)		$\pm 45^\circ$	-	-	-
Table size	mm	1250x320	1250x320	1250x320	1250x360
Table travel(Longitudinal/Cross/Verical)	mm	600/300/280	600/300/400	800/300/400	1000/320/400
X, Y axes feed speed	mm/min	22-555	22-555	22-555	22-555
X, Y axes rapid feed speed	mm/min	1080	1080	1080	1080
Z axis rapid elevate speed	mm/min	590	590	590	590
Z axis rapid elevate motor power	w	750	750	750	1100
Max. weight of workpiece	kg	300	300	300	400
T slot(No./width/distance)	mm	3/14/70	3/14/70	3/14/70	3/18/80
Main motor	kw	2.2(V), 2.2(H)	3.75(V), 2.2(H)	3.75(V), 2.2(H)	5.5(V), 4(H)
X, Y axes auto-feed drive motor	w	750	750	750	750
Coolant pump power	w	40	40	40	90
Overall dimension (L x W x H)	mm	1700x1500x2150	1780x1500x2270	1780x1500x2270	2220x1790x2360
N.W./G.W.	kg	1450/1600	1550/1650	1650/1750	2450/2650

VERTICAL TURRET MILLING MACHINE



M230A

- Double 55° dovetail guide way is adopted on both Y and Z axis;
- Adopted strengthen rib on both sides of the column;
- The work table surface and 3 axis guide way are hardened and precision ground.



M230B

- Double 55° dovetail guide way is adopted on Z axis, and rectangular guide way on Y axis;
- Adopted strengthen rib on both sides of the column;
- The work table surface and 3 axis guide way are hardened and precision ground.



M250

- Rectangular guide ways on Y and Z axis;
- The guide way on saddle is lined with TF wearable material.



M250A

- Double 55° dovetail guide way is adopted on both Y and Z axis;
- The guide way on saddle is lined with TF wearable material;
- The work table surface and 3 axis guide way are hardened and precision ground.



M250B

- Double 55° dovetail guide way is adopted on Z axis, and rectangular guide way on Y axis;
- The guide way on saddle is lined with TF wearable material;
- The work table surface and 3 axis guide way are hardened and precision ground.



M250U

- Rectangular guide ways on Y and Z axis; X, Y axis adopt auto feed gear box;
- Feed motor: 250w; Feed rate: 15, 23, 33, 48, 78, 114, 166, 257;
- The work table surface and 3 axis guide way are hardened and precision ground.



M250C

- Rectangular guide ways on Y and Z axis;
- The guide way on saddle is lined with TF wearable material;
- 5HP milling head motor, quill dia. is 100mm;
- Fixed structure is used to connect the mill head without adapter.



M250D

- Rectangular guide ways on Y and Z axis;
- The guide way on saddle is lined with TF wearable material;
- 5HP milling head motor and quill diameter is 100mm.



M300

- Rectangular guide ways on Y and Z axis;
- The guide way on saddle is lined with TF wearable material;
- 5HP milling head motor, quill dia. is 100mm;
- The work table surface and 3 axis guide way are hardened and precision ground;
- Z axis adopts high speed lifting motor.



M300A

- Rectangular guide ways on Y and Z axis;
- The guide way on saddle is lined with TF wearable material;
- 5HP milling head motor, quill dia. is 100mm;
- The work table surface and 3 axis guide way are hardened and precision ground;
- Z axis adopts high speed lifting motor;
- Fixed structure is used to connect the mill head without adapter;



M330

- Rectangular guide ways on Y and Z axis;
- The guide way on saddle is lined with TF wearable material;
- 5HP milling head motor, quill dia. is 100mm;
- The work table surface and 3 axis guide way are hardened and precision ground;
- Z axis adopts high speed lifting motor.
- Super saddle structure.



M330A

- Rectangular guide ways on Y and Z axis;
- The guide way on saddle is lined with TF wearable material;
- 5HP milling head motor, quill dia. is 100mm;
- The work table surface and 3 axis guide way are hardened and precision ground;
- Z axis adopts high speed lifting motor.
- Super saddle structure;
- Fixed structure is used to connect the mill head without adapter.

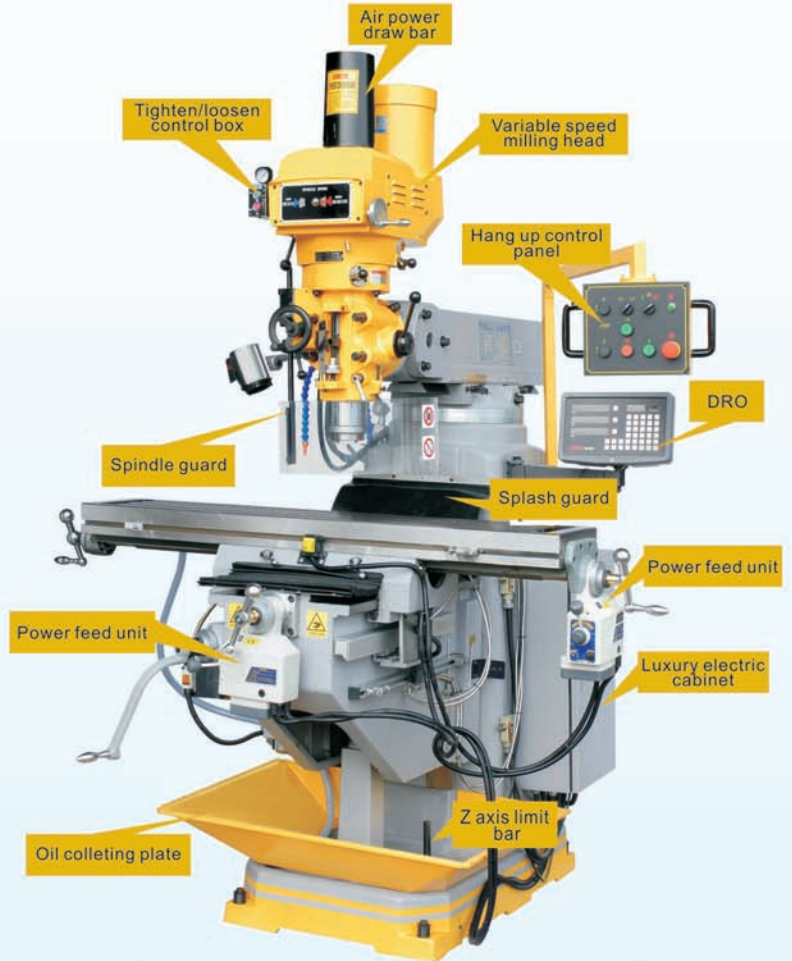
VERTICAL TURRET MILLING MACHINE

STANDARD ACCESSORIES:

- * Draw bar,
- * Electric box,
- * Working light,
- * Hand oil pump,
- * Tool & tool box

OPTIONAL ACCESSORIES:

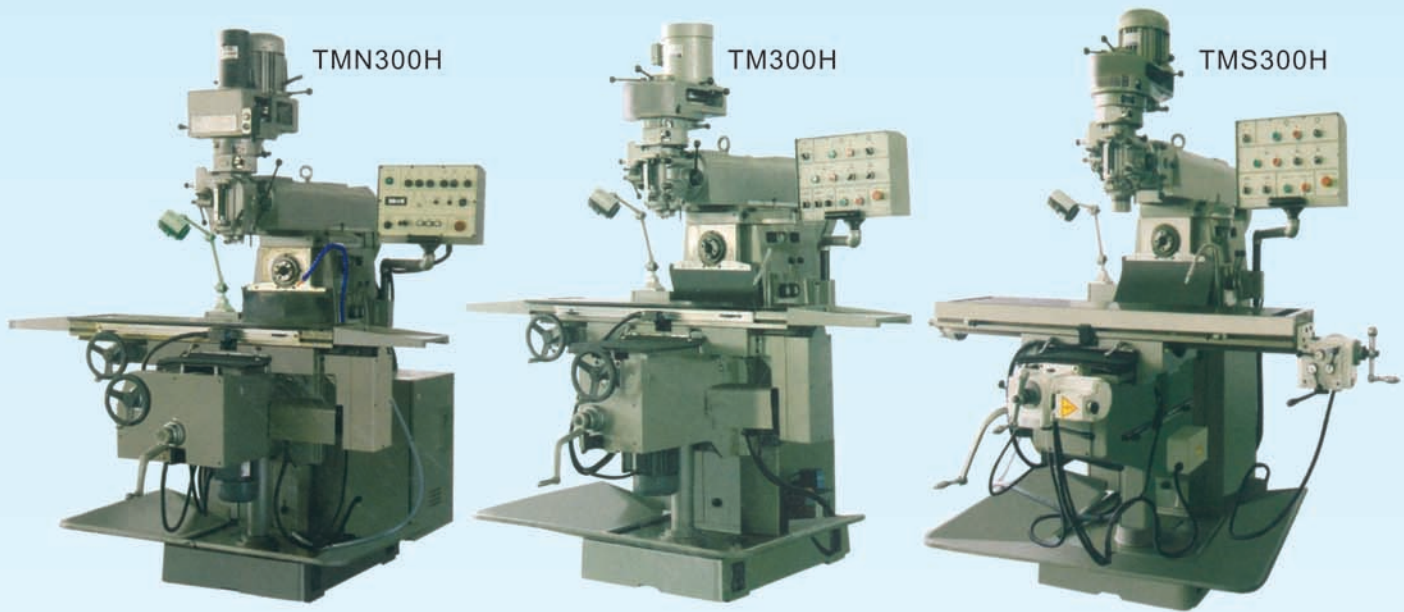
- * Digital readout system(DRO),
- * Machine vise,
- * Power feed unit,
- * Gear box power feed,
- * Clamping kits,
- * ISO30/ISO40 collet chuck,
- * R8 collet chuck,
- * Oil collecting plate,
- * Plastic splash guard,
- * Cooling system



OPTIONAL EQUIP. LAYOUT

Model	Unit	M230A	M230B	M250	M250A	M250B	M250U	M250C	M250D	M300	M300A	M330	M330A		
Table size	mm	230x1067		254x1270			250x1270	254x1270		305x1370		330x1370			
		230x1246		254x1370				254x1370		305x1500		330x1500			
Longitudinal travel	mm	650 / 840		850 / 950			770	850 / 950		870 / 1000		840 / 1000			
Cross travel	mm	305		420	400			420		380		368			
Vertical travel	mm	400		420			400	420		430		450			
T-slot No. and size	mm	3 x 16													
Ram travel	mm	312		470						500					
Distance from spindle to table	mm	15-415		0-420			0-400	0-420		0-435		0-450			
Spindle hole taper		Standard: R8			Optional: ISO30/ISO40				Standard: ISO40						
Spindle travel	mm	127 mm													
Spindle speed	r.p.m	Standard: step 16 speed						50HZ: 65-4500		60HZ: 80-5440					
		Optional: Variable speed 65-4500						Optional: Variable speed: 65-3750							
Auto. quill feed	mm/r	Three steps: 0.04 (0.0015") / 0.08 (0.003") / 0.15(0.006")								Three Steps: 0.04 (0.0015") / 0.08 (0.003") / 0.15 (0.006")					
Spindle Motor	kw/HP	2.25kw / 3HP						3.75kw / 5HP		3.75kw / 5HP					
Head Swivel		90°													
Head Tilting		45°						Fix	45°		Fix	45°		Fix	
Dimension of package	One	mm	1400x1476x2030			1516x1550x2080						1566x1650x2080		1800x2016x2180	
	Two	mm	1450x1570x2080			1650x1790x2170						1720x1800x2175		1800x2200x2180	
	Three	mm	1450x2180x2080			1650x2285x2235						-		-	
Gross Weight	kg	1100	1160	1550	1380	1420	1650	1590	1590	1700	1750	2300	2350		

H/V HEAD TURRET MILLING MACHINE



- Super width of bed and knee box guide way has been hardened and precision ground, with high rigidity and stability.
- The guide way of saddle is lined with TF wearable material.
- The machine has one vertical and one horizontal spindle.
- The spindles and gears have been hardened and ground, suitable for heavy cutting.

STANDARD ACCESSORIES:

Electric cabinet and hung up control panel, electric lubricate pump, working light, knee rapid elevating motor, draw bar, plastic splash guard, cooling system, oil collecting plate, leveling wedge and screw bolts

Model		Unit	TMN300H	TM300H		TMS300H	
Table size		mm	300x1300	300x1300	300x1500	300x1370	300x1500
Table longitudinal travel(manual)		mm	845	845	1000	880	1000
Table cross travel(manual)		mm	385	385	385	380	380
Knee vertical travel (manual)		mm	435				
Table longitudinal feed rate		mm/min	0-3500 Servo motor	-		-	
Table cross feed rate		mm/min		-		-	
Knee rapid speed		mm/min	900				
Vertical spindle	Motor power	Hp	5HP			Standard:3HP/optional:5HP	
	Speed	r.p.m	(Standard:16steps): 50 HZ:65-4500/60HZ:80-5440 (optional: variable speed):65~3750				
	Taper		ISO40			R8/ISO40 Standard:R8/optional:ISO40	
	Quill travel	mm	127				
	Quill feed	mm/rev	0.04/0.08/0.15				
	Head rotating		(R/L)90°			(R/L)90° //(B/F)45°	
	Spindle end to table surface	mm	115~545				
Horizontal spindle	Motor power	Hp	5HP				
	Speed	rpm	50HZ:45/80/165/260/500/980 60HZ:55/100/200/315/600/1180				
	Taper		ISO40				
	Spindle center line to table surface	mm	-20~410				
	Distance from spindle center to ram	mm	183				
Ram travel		mm	480				
Ram rotating			360°				
Net weigh		kg	1900	1900	1950	1680	1730
Package size(LxWxH)		cm	180x150x220		180x180x220	180x160x220	180x180x220

PRECISE TURRET MILLING MACHINE

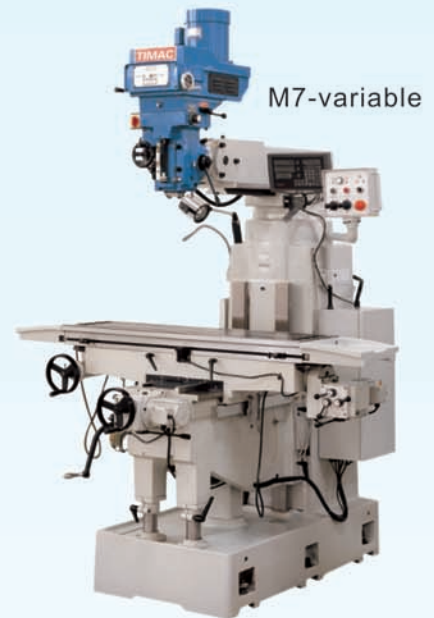
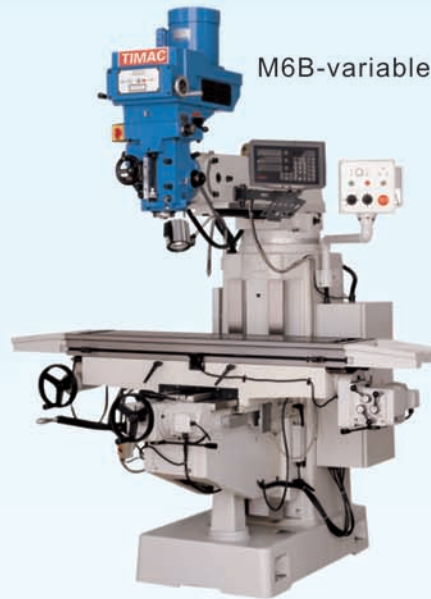
- For electronic parts, mould and hole, slot and frame processing
- Twice precisely scraping could assure the quality of processing.
- Fit for boring, milling, drilling and boring tolerance is 0.005–0.012mm
- Taiwan original milling head, NSK P4 spindle bearing
- Spindle tolerance: 0.002mm
- Parallel value between table's movement and table: X axis 0.015mm, middle 0.01mm, Y axis, 0.01mm
- Variable speed and inverter speed milling head is available

STANDARD ACCESSORIES:

- Way Cover
- Working Light
- Tool & Toolbox

OPTIONAL ACCESSORIES:

- Clamping Kit
- Elevating Motor
- Milling Chuck
- Coolant Pump
- 6" Vise
- Power BER
- Power Feed/Mechanical Feed



Model		M2	M3	M4	M4A/M5	M5A/M5B	M6A/M6B	M7	M8
Table Size(mm)		1067x230x72 1244x230x72	1270x254x90	1270x254x90	1270x245x90 1370x254x90	1270x254x90 1470x305x90	1370x330x99	1370x330x99	1524x360x99
Travel	Longitudinal(mm)	▲ 750 ▲ 900	900	900	▲ 900 ▲ 1000	▲ 800 ▲ 1000	▲ 850 ▲ 1000	▲ 1000	▲ 1150
	Cross (mm)	▲ 325	395	405	■ 370 ■ 430	■ 415	■ 395	■ 500	■ 500
	Vertical(mm)	▲ 360	350	340	■ 360 ■ 390	■ 430	■ 350	■ 500	■ 500
Travel of Spindle Quill(mm)		127	127	127	127	150	150	150	140
Max.Distance from the Spindle Nose to Table(mm)		440	400	450	400 440	560 590	570	680	690
Spindle	Rotation Speed(rpm)	Step speed: 80–5440 (16 grades) Variable speed: 60–4200				Step speed: 80–5440 (16 grades) Inverter speed: 0–4200			
	Taper	R8(NT30)	R8(NT30)	R8(NT30)	R8(NT30)/Nt40	NT40	NT40	NT40	NT40
	Rated Power(HP)	3	3	3	3	5	5	5(7.5 optional)	7.5
Tilt Angle	Forward and Backward	± 45°	± 45°	± 45°	± 45°	(± 45° optional)	± 45°	± 45°	0°
	Left and Right	± 90°	± 90°	± 90°	± 90°	± 90°	± 90°	± 90°	± 90°
Dimension(LxWxH)(mm)		1400x1500x2100 1400x1700x2100	1500x1700x2150	1500x1700x2200	1500x1700x2150 1600x1800x2150	1500x1700x2450 1500x1900x2450	1600x2000x2450	2000x2000x2750	2300x2000x2900
Net Weight(kg)		1000	1280	1400	1500	2000 2100	2200 2300	2700	2900

▲ Dovetail way ■ Square way

PRECISE HORIZONTAL /VERTICAL MILLING MACHINE

- Fit for semi-rough processing, precise processing of the medium and small parts
- Taiwan original precise milling head, wide speed range and high accuracy
- Sealed ball screw, power feed or mechanic feed or servo motor are available
- Vertical milling, horizontal milling, $\pm 45^\circ$ slant milling



STANDARD ACCESSORIES:

- * Way Cover
- * Working Light
- * Tool and Toolbox

OPTIONAL ACCESSORIES:

- * Clamping Kit
- * Milling Chuck
- * 6" Vise
- * Power Feed/Mechanical Feed
- * Elevating Motor
- * Coolant Pump
- * Power BER

Model	Unit	HV4	HV6	HV6C	HV6BC
Table Size	mm	1270 × 254	1300 × 300	1300 × 300	1300 × 300
Travel Longitude	mm	900	880	900	900
Travel Cross ward	mm	380	415	330	330
Travel Vertical	mm	325	415	300	300
Travel of Spinde Quil	mm	127	140	—	140
Max.Distance from the Spindle Nose to Table	mm	440	450	650	450
Quill Diameter	mm	85.725	110	—	110
Spindle Rotation Speed	RPM	80-5440(16 grades)/60HZ 60-900(9 grades)60HZ	75-3600(16 grades)/60HZ 60-820(16 grades)/60HZ	Streng thened Milling Head 60-820(9 grades)/60HZ	75-3600(16 grades)/60HZ 60-820(9 grades)/60HZ
Spindle Taper		R8(NT30)	NT40	NT40	NT40
Spindle Rated Power	HP	$\frac{3}{3}$	$\frac{5}{5}$	$\frac{5}{5}$	$\frac{5}{5}$
Auto Feed Rate X axis	mm/min	—	0-2000	0-2000	0-2000
Auto Feed Rate Y axis	mm/min	—	0-2000	0-2000	0-2000
Elevating Speed	mm/min	—	1150	1150	1150
Dimension(LxWxH)	mm	1500 × 1700 × 2100	2200 × 2240 × 2370	2200 × 2240 × 1990	2200 × 2240 × 2370
Net Weight	kg	1500	2600	2600	2750
Max.Load of Machine	kg	350	600	600	600

VERTICAL KNEE-TYPE MILLING MACHINE

Model	Unit	VM360A	VM360B
Spindle taper		ISO50	ISO50
Distance from spindle nose to table	mm	60-540	60-540
Spindle speed	r.p.m	(12steps)60-1700	(12steps)60-1700
Table size	mm	1250X360	1250X360
Table travel(Longitudinal/Cross/Verical)	mm	600X320X450	1000X320X450
X,Y axes feed speed	mm/min	22-555(8steps)	22-555(8steps)
X,Y axes rapid feed speed	mm/min	1080	1080
Z axis rapid elevate speed	mm/min	590	590
Max. weight of workpiece	kg	400	400
T slot(No./width/distance)	mm	3/18/80	3/18/80
Main motor	kw	4	4
X,Y axes auto-feed drive motor	w	750	750
Z axis motor power	w	1100	1100
Coolant pump power	w	90	90
Overall dimension(LxWxH)	mm	1900x1850x1800	2500x1850x1880
N.W./G.W.	kg	2100/2200	2200/2300

- Hardened and ground table surface;
- Automatic feeds on X, Y axes, motorized rise and fall of table on Z axis;
- Rectangular column guide way with high stability.



VM360A



VM360B



HM320B



HM360A

HORIZONTAL KNEE-TYPE MILLING MACHINE

Model	Unit	HM320B	HM360A	HM360B
Spindle taper		ISO40	ISO50	ISO50
Distance from spindle axis to table	mm	0-450	0-400	0-400
Spindle speed	r.p.m	(12steps)40-1300	(12steps)60-1800	(12steps)60-1800
Table size	mm	1250(1370)X320	1250X360	1250X360
Table travel(Longitudinal/Cross/Verical)	mm	600(720)X300X450	600X320X400	1000X320X400
X,Y axes feed speed	mm/min	22-555(8steps)	22-555(8steps)	22-555(8steps)
X,Y axes rapid feed speed	mm/min	1080	1080	1080
Z axis rapid elevate speed	mm/min	590	590	590
Max. weight of workpiece	kg	300	400	400
T slot(No./width/distance)	mm	3/14/70	3/18/80	3/18/80
Main motor	kw	3	4	4
X,Y axes auto-feed drive motor	w	750	750	750
Coolant pump power	w	90	90	90
Z axis motor power	w	750	1100	1100
Overall dimension(LxWxH)	mm	1700x1500x2000	1850x1790x1880	2220x1790x1880
N.W./G.W.	kg	1750/1900	2100/2200	2200/2300



HM360B

VERTICAL KNEE-TYPE MILLING MACHINE

WVM320A



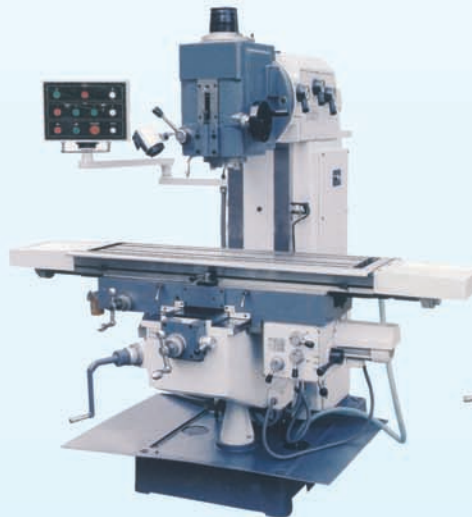
- Hardened and ground table surface;
- Automatic feeds on X, Y axes, motorized rise and fall of table on Z axis;
- Rectangular column guide way with high stability.

Model	Unit	WVM320A	WVM320B	WVM320C
Spindle taper		ISO50	ISO50	ISO50
Distance from spindle nose to table	mm	45-445	35-435	35-435
Distance from spindle axis to column guideway		320	360	360
Spindle speed	r.p.m	58-1710	58-1710	58-1710
Table size	mm	1320X320	1320X320	1320X320
Table travel(Longitudinal/Cross)	mm	800(750)X300	800(750)X300	1000X300(manual)
T slot(No./width/distance)	mm	5/14/63	5/14/63	5/14/63
Main motor	kw	4	4	4
Overall dimension(LxWxH)	mm	1700x1820x1880	1770x1820x1880	2020x1820x1880
Machine weight	kg	2300	2300	2300

WVM320B



WVM320C



WHM320A



HORIZONTAL KNEE-TYPE MILLING MACHINE

Model	Unit	WHM320A	WHM320B
Spindle taper		ISO50	ISO50
Distance from spindle axis to table	mm	0-400	0-400
Distance from spindle axis to ram		175	175
Spindle speed	r.p.m	58-1800	58-1800
Table size	mm	1320X320	1320X320
Table travel(Longitudinal/Cross)	mm	800(750)X300	1000X300(manual)
T slot(No./width/distance)	mm	5/14/63	5/14/63
Main motor	kw	4	4
Overall dimension(LxWxH)	mm	1900x1720x1750	2020x1720x1750
Machine weight	kg	2100/2300	2300/2500



WHM320B

UNIVERSAL KNEE-TYPE MILLING MACHINE

US260-1G



US260A



US260B



Model	Unit	US260-1G	US260A	US260B	US320A
Table size	mm	1120 × 260	1120 × 260	1120 × 260	1250 × 320
Table travel	mm	600 × 300	600 × 270	600 × 270	600 × 300
Spindle taper		ISO40	ISO40	ISO40	ISO40
Spindle speed	r.p.m	45-1660	45-1660	45-1660	35-1600
Distance from spindle nose to table	mm	100-480	100-480	100-480	100-480
Max. end milling capacity	mm	125	125	125	125
Max. vertical milling capacity	mm	25	25	25	28
Swivel angle of milling head		360°	360°	360°	360°
Main motor	kw	2.2	2.2	2.2	2.2
Overall dimension(L × W × H)	mm	1655 × 1325 × 1730	1655 × 1500 × 1730	1655 × 1500 × 1730	1700 × 1560 × 1730
Net weight	kg	1300	1400	1480	1500

US320A



UM36WA



TM36WA



Model	UM36WA
Spindle	ISO40(V)/SO50(H)
Max milling cutter diameter (mm)	125(V)/100(H)
Swivel angel milling head(°)	± 360°
Range fo vertical/horizontal speed(r.p.m)	35-1600(V)/40-1300(H)
Distance from spindle nose to table(mm)	150-550
Distance form spindle to column (mm)	760
Table size(mm)	1500 × 360
Table trave (mm)	1000 × 300 × 390
T-slot(number-width-distance)(mm)	3/18/80
Main motor power(kw)	3(V)/4(H)
Overall dimension(LxWxH)(mm)	1550 × 1670 × 1950
N.W/G.W (kg)	2650/2850

Model	TM36WA
Spindle taper	ISO40(V)/SO50(H)
Distance from vertical axis to table surface(mm)	135-485
Distance from horizontal axis to table surface (mm)	0-350
Spindle speeds range (r.p.m)	75-4540(V)/60-1800(H)
Table size(mm)	1500x360
Max. table travel(mm)	900x400x405
Main motor power(kw)	3.7(V)/4(H)
Overall dimension(LxWxH)(mm)	2000x200x2250
N.W/G.W (kg)	2650/2850

VERTICAL KNEE-TYPE MILLING MACHINE



Model	VM300A	VM350	VM320W	VM400W	VM500
Table surface	300 × 1150(1500)mm	350 × 1500 mm	320 × 1320 mm	400 × 1600 mm	500 × 1800 mm
Number of T-slots and slot width	3 × 18 mm				
Distance between T-slots	70 mm	80 mm	70 mm	90 mm	63 mm
Max.longitudinal travel	680 (780) mm	900/890 mm	700/680mm	900/880mm	1330/1320mm
Max.cross travel	235 mm	350/340 mm	255/244mm	315/300mm	360/345mm
Max.vertical travel	400 mm	430/420 mm	350/330mm	385/365mm	630/600mm
Stretch of spindle sleeve	60 mm	100 mm	70 mm	85mm	
Swivel angle of the milling head	± 45°				
Spindle taper	7:24,NO:40	7:24,NO:50	7:24,NO:50	7:24,NO:50	7:24,NO:50
Spindle steps of speed	12	18	18	18	18
Spindle range of speed	35–1600 r/min	30–1500 r/min	30–1500 r/min	30–1500 r/min	35.5–1800 r/min
Range of feed speeds(X,Y,Z)	12–720 mm/min	12-1030,4-343 mm/min	23.5-1180,15-786, 8-394 mm/min	23.5-1180,8-394mm/min	16–800, 5–250 mm/min
Speed of rapid traverse(X,Y,Z)	2100 mm/min	2400,800 mm/min	2300, 1533, 770 mm/min	2300,770mm/min	3000,1000mm/min
Main motor	4 kw	7.5 kw	7.5 kw	11 kw	15 kw
Net weight	2200 (2300)kg	3300 kg	2800kg	4250kg	4500kg
Overall dimensions (L × W × H)	1535 × 1740(1935) × 1870mm	2325 × 2060 × 2240mm	2294 × 1770 × 1904mm	2556 × 2159 × 2238mm	2530 × 2005 × 2595mm

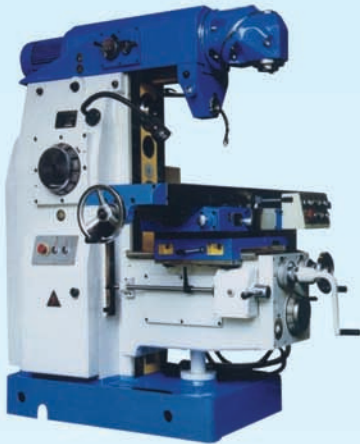
UNIVERSAL KNEE-TYPE MILLING MACHINE



Model	UM300A	UM320	UM350	UM320W	UM400W	UM500
Table surface	300×1150(1500)mm	320×1320mm	350×1500mm	320×1320mm	400×1600mm	500×1800mm
Number of T-slots and slot width	3×18mm			3×18mm	3×18mm	6×18mm
Distance between T-slots	70mm	80mm		70mm	90mm	63mm
Max. longitudinal travel	680(780)mm	790mm	900/890mm	700/680mm	900/880mm	1330/1320mm
Max. cross travel	235mm	320mm	350/340mm	255/244mm	315/300mm	360/345mm
Max. vertical travel	400mm	390mm	400/390mm	320/300mm	385/365mm	630/600mm
Max. rotation angle of table	±45°			±45°	±45°	±45°
Spindle taper	7:24, NO:40	7:24, NO:50		7:24, NO:50	7:24, NO:50	7:24, NO:50
Spindle steps of speed	12 steps	18 steps		18	18	18
Spindle range of speed	35–1600r/min	30–1500 rpm		30–1500 r/min	30–1500 r/min	35.5–1800 r/min
Range of feed speeds(X,Y,Z)	12–720mm/min	12-1000,4-333mm/min	12-1030,4-343mm/min	235-1180,15-786,8-394mm/min	235-1180,8-394mm/min	16-800,5-250mm/min
Speed of rapid traverse(X,Y,Z)	2100mm/min	2400, 800 mm/min		2300,1533,770mm/min	2300,770mm/min	3000,1000mm/min
Main motor	4kw	7.5 kw		7.5 kw	11 kw	15 kw
Net weight	2150(2250)kg	3000 kg	3100 kg	2800kg	3850kg	4100kg
Overall dimensions (L×W×H)	1535×1695(1935)×1630mm	2275×1810×1790mm	2280×2060×1850mm	2294×1770×1904mm	2556×2159×1770mm	2530×2005×2011mm

UNIVERSAL SWIVEL HEAD KNEE-TYPE MILLING MACHINE

US300A



US320W



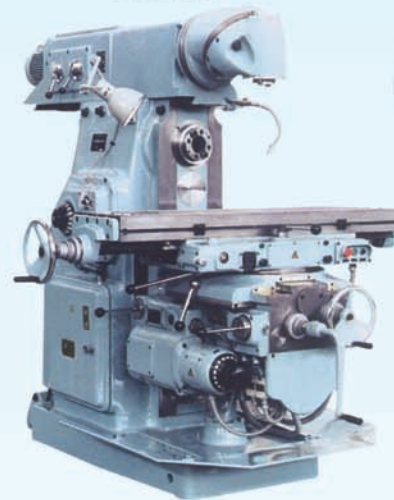
US360W



US360B



US320C



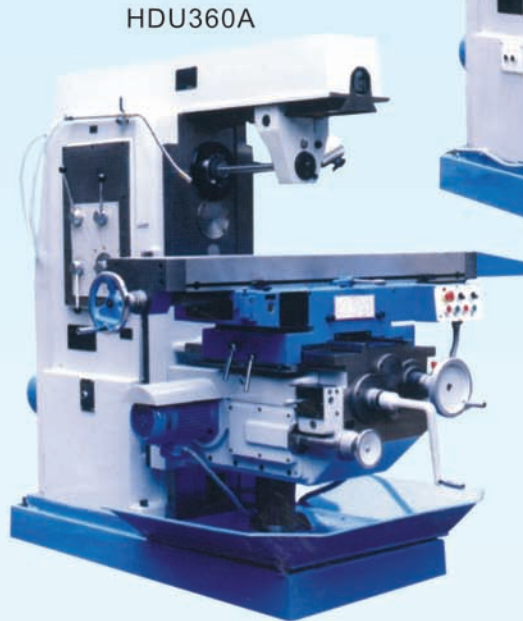
US320B

Model	US300A	US320W	US360W	US360B	US320B/US320C
Table surface	300 × 1150(1500) mm	320 × 1320 mm	360 × 1320 mm	360 × 1250 mm	320 × 1320(1600) mm
Number of T-slots and slot width	3 × 18 mm	5 × 14 mm	3 × 14 mm	3 × 18 mm	3 × 18 mm
Distance between T-slots	70 mm	63 mm	95 mm	80 mm	70 mm
Max. longitudinal travel	680(780) mm	1000 mm	1000 mm	1000 mm	700(800)/680(780) mm
Max. cross travel	235 mm	300 mm	300 mm	320 mm	255/240 mm
Max. vertical travel	400 mm	500 mm	500 mm	400 mm	320/300 mm
Swivel angle of milling head	± 360°	± 360°	± 360°	± 360°	± 360°
Max. rotation angle of table	± 45°	-	± 45°	-	± 45°
Horizontal spindle taper	7:24, NO:40	7:24, NO:40	7:24, NO:50	7:24, NO:40(NO:50)	7:24, NO:50
Milling head spindle taper	7:24, NO:40, morse NO:3	7:24, NO:40	7:24, NO:40	7:24, NO:40	7:24, NO:40
Horizontal spindle steps of speed	12 steps	12 steps	12 steps	12 steps	18 steps
Horizontal spindle range of speed	35–1600 r/min	40–1300 r/min	60–1750 r/min	40–1300 r/min	30–1500 r/min
Milling head spindle steps of speed	8 steps stepless	11 steps	11 steps	11 steps	9 steps
Milling head spindle range of speed	67–1600 r/min 70–1500 r/min	45–1660 r/min	58–1800 r/min	35–1600 r/min	90–1400 r/min/125–2000 r/min
Main drive motor milling head spindle	2.2 kw 3 kw	3 kw	3 kw	3 kw	3 kw
Main drive motor horizontal spindle	4 kw	3 kw	4 kw	3 kw	5.5 kw
Net weight	2650(2750) kg	2100 kg	2300 kg	2350 kg	3000 kg
Overall dimensions (L × W × H)	1535 × 1695(1935) × 1728 mm	2020 × 1710 × 1994 mm	2070 × 2025 × 2020 mm	2220 × 1660 × 2020 mm	2294 × 1770(2045) × 1858 mm

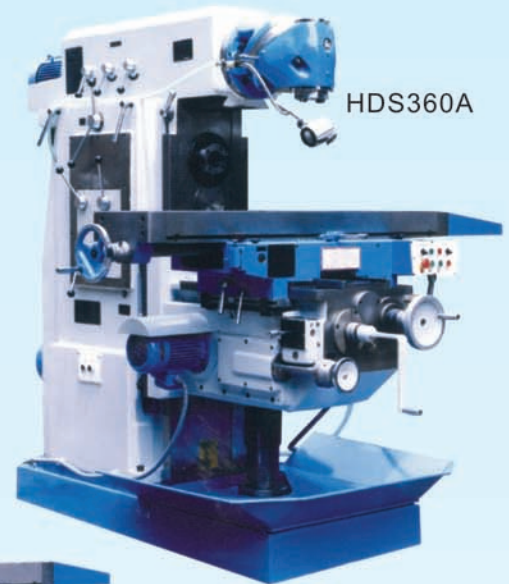
HEAVY-DUTY MILLING MACHINE



HDV360A



HDU360A

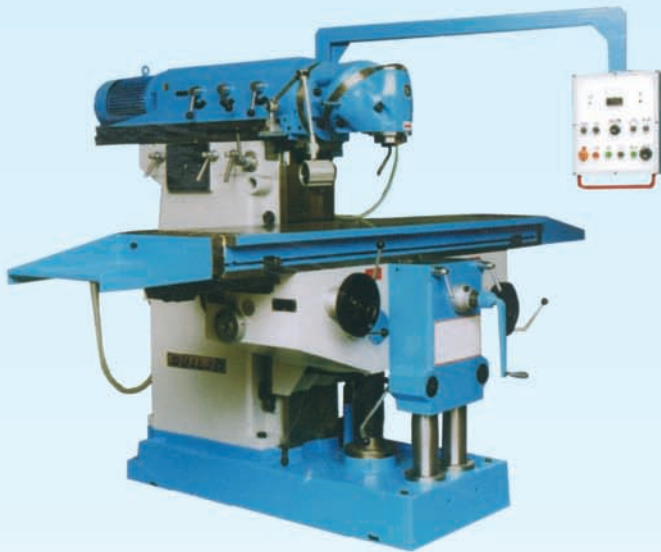


HDS360A

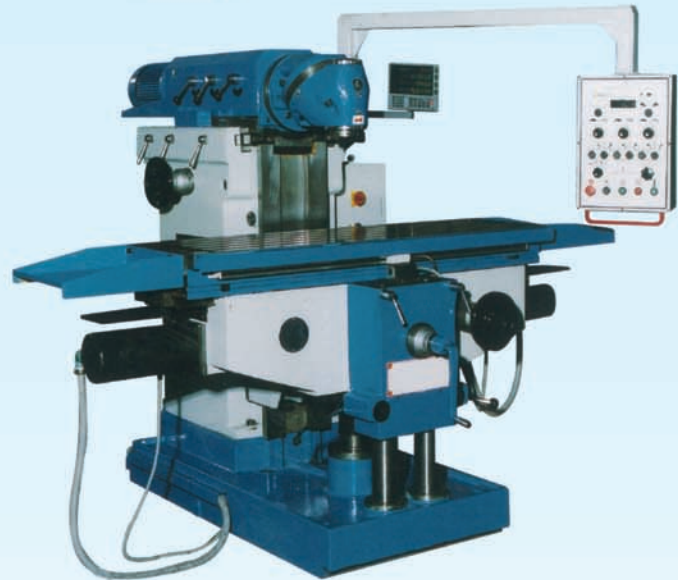
Model	Unit	HDV320A	HDV360A	HDV400A	HDU320A	HDU360A	HDU400A	HDS320A	HDS360A	HDS400A
Working table (W x L)	mm	320 x 1400	360 x 1400	400 x 1700	320 x 1400	360 x 1400	400 x 1800	320 x 1400(1700)	360 x 1400(1700)	400 x 1400(1700)
T-slot Number		3			3			3		
Width	mm	18			18			18		
Pitch	mm	80			80			80		
Travel of table Longitudinal	mm	900		1000	900		1000	900(1100)		
Cross	mm	335		400	335		400	335		400
Vertical	mm	450		480	450		480	475		
Spindle taper		ISO50			ISO50			ISO50		
Spindle speed Range	rpm	35 ~ 1830			30 ~ 1525			30 ~ 1525/40 ~ 1800		
Number	mm/min	18			18			18stage/12stage		
Max. swivel angle of vertical milling head	mm/min	± 45°						any 360° in front half-sphere		
Max. swivel angle of working table	mm/min	-			± 45°			-		
Min. distance between spindle line and table surface	mm	-			30			10 ~ 485		
Feed range of table Longitudinal	mm/min	22 ~ 1028			22 ~ 1028			22 ~ 1028		
Cross	mm/min	22 ~ 1028			22 ~ 1028			22 ~ 1028		
Vertical	mm/min	9 ~ 427			9 ~ 427			9 ~ 427		
Feed number of table		12			12			12		
Rapid feed range of table Longitudinal	mm/min	2350			2350			2350		
Cross	mm/min	2350			2350			2350		
Vertical	mm/min	915			915			915		
Main motor power	kw	7.5			7.5			7.5		
Feed motor power	kw	1.5			1.5			1.5		
Net weight	kg	4200		4500	4200		4300	4500		
Overall dimensions (L x W x H)	mm	2360 x 2115 x 2067		2360 x 2415 x 2067	2360 x 2115 x 2067		2360 x 2515 x 2067	2360(2410) x 1950 x 2100		

RAM-TYPE MILLING MACHINE

RUM500



RUM560



Model	Unit	RUM460	RUM500	RUM560	RUM600	RUM630
Working table(W × L)	mm	460 × 1435, 1635, 2000	500 × 1435, 1635, 2000	560 × 1435, 1635, 2000	600 × 1435, 1635, 2000	630 × 1435, 1635, 2000
T-slot Number			5			7
Width	mm		18			22
Pitch	mm		80			80
Travel of three directions Longitudinal	mm		1100, 1300, 1500			1100, 1300, 1500
Cross	mm		650			800
Vertical	mm		470			500
Min. distance between spindle nose and table surface	mm		40			
Swivel angle of milling head			Any 360° in front half-sphere			
Spindle taper			ISO50			
Spindle speed Range	rpm		30 ~ 2050			36 ~ 1820
Number			27			18
Feed range of table and ram longitudinal	mm/min		10 ~ 1000			
Cross	mm/min		10 ~ 1000			
Vertical	mm/min		6 ~ 640			5 ~ 500
Rapid feed of table and ram longitudinal	mm/min		2200			3000
Cross	mm/min		2200			3000
Vertical	mm/min		1466			1500
Feed number of table			Infinitely variable			
Main motor Power	kw		7.5			11
Speed	rpm		1440			1450
Feed motor Torque	Nm		30			X,Y:25, Z:30
Speed	rpm		1500			1500
Rapid feed motor Power	kw		3			3
Speed	rpm		1500			1500
Max. bearing weight of table	kg		1500			2000
Overall dimensions (L × W × H)	mm		2100 × 2421, 2621, 2986 × 1950			3130 × 2135, 2335, 2700 × 2260
Net weight	kg		3300, 3500, 3700			9200, 9400, 9600

BED-TYPE MILLING MACHINE

PLC CONTROL

BM400G



BM300



STANDARD ACCESSORIES:

Electric cabinet and hung up control panel, oil collecting plate, coolant pump, draw bar, manual pulse generator (MPG), auto. lubricate pump, machine vise, collet chuck, reduction sleeve, work light, 3-axis digital readout system(DRO), wrenches

OPTIONAL ACCESSORIES:

Clamping kits, air power draw bar, rotary table, dividing head

STANDARD ACCESSORIES:

Draw bar, tool box, tool, oil collecting plate, auto. lubricate pump, coolant pump, table guard, working light

OPTIONAL ACCESSORIES:

Digital readout system(DRO), power feed, collet chuck, clamping kits, machine vise, inverter milling head, variable speed milling head, air power draw bar

Model	BM400G
Spindle taper	ISO50
Diameter of quill	180mm
Distance from spindle to table	110-640mm(30-530mm)
Distance from spindle to column	540mm
Spindle speeds	35-2000r.p.m(12steps)
Spindle travel	80mm
Head movement	± 30°
Table size	1525x400mm(2100x400mm)
Longitudinal table travel/X-axis	1200mm(1300mm)
Cross table travel travel/Y-axis	500mm
Vertical travel	500mm
X,Y-axis rapid feed speed	3000mm/min
Z-axis rapid feed speed	1800mm/min
Rate of feeding /Control measurement	1-3000mm/min 0.001mm
Max.weight of workpiece	600kg
T-slot Number/Width/Distance	3/18mm/1335mm
Horse power for main motor	5.5kw(7.5HP)
X axis driving motor	(Servo motor)1.5kw
Y axis driving motor	(Servo motor)1.5kw
Controller type	PLC control
Coolant pump power	90w(25L)
Overall dimension (L × W × H)	2825x2160x2150mm
N.W./G.W.	4260/4460kg

Model		BM250		BM300	
Table size		254x1270	254x1370	305x1370	305x1500
Table longitudinal travel		760	860	880	1000
Table cross travel		535	535	510	510
Milling head vertical travel		405			
Distance from spindle to table		150~600			
Milling head	Motor power	3HP	3HP	5HP	5HP
	Spindle taper	R8	R8	ISO40	ISO40
	Quill travel	127	127	127	127
	Spindle speed	Standard:16steps	50HZ:65~4500; 60 HZ:80~5440		
Optional:variable		65~4200		60~3750	
Quill power feed		0.04/0.08/0.15mm/rev.			
Package size	One machine	180x150x240cm		185x150x240cm	
	Two machines	220x150x240cm		225x150x240cm	
G.W	One machine	1900	1900	2000	2050
	Two machines	3900	3900	4000	4100

BED-TYPE MILLING MACHINE

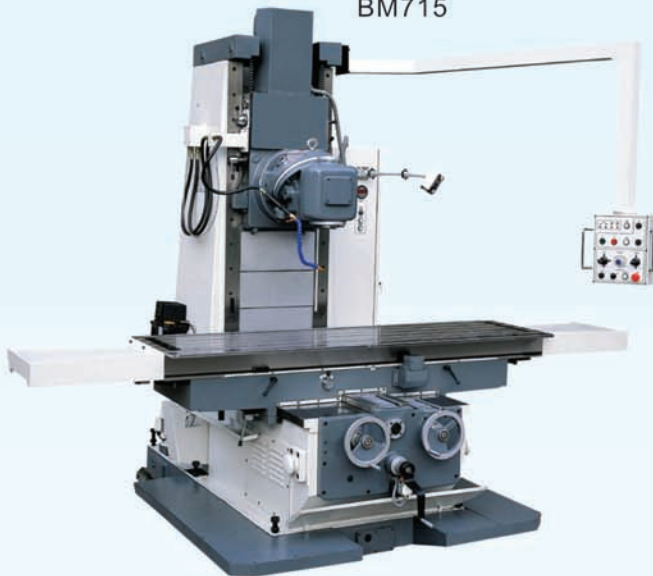
BM714



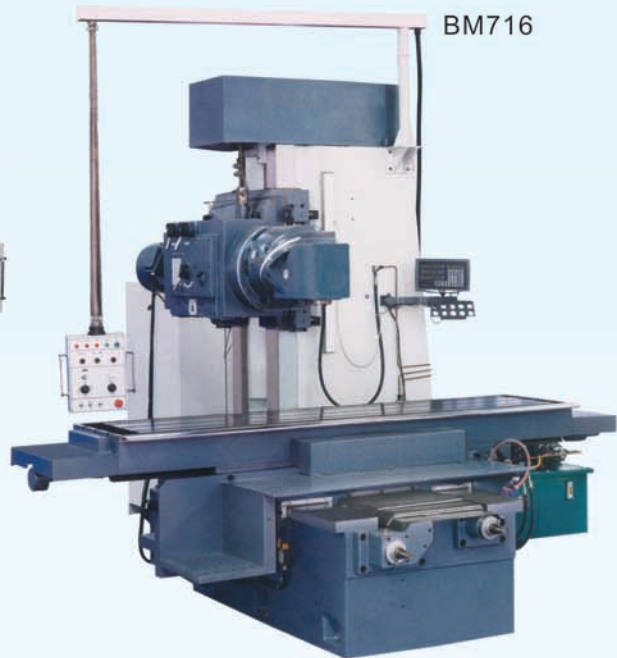
BM713



BM715



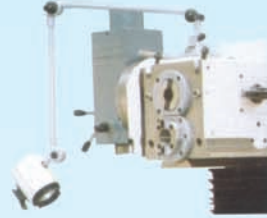
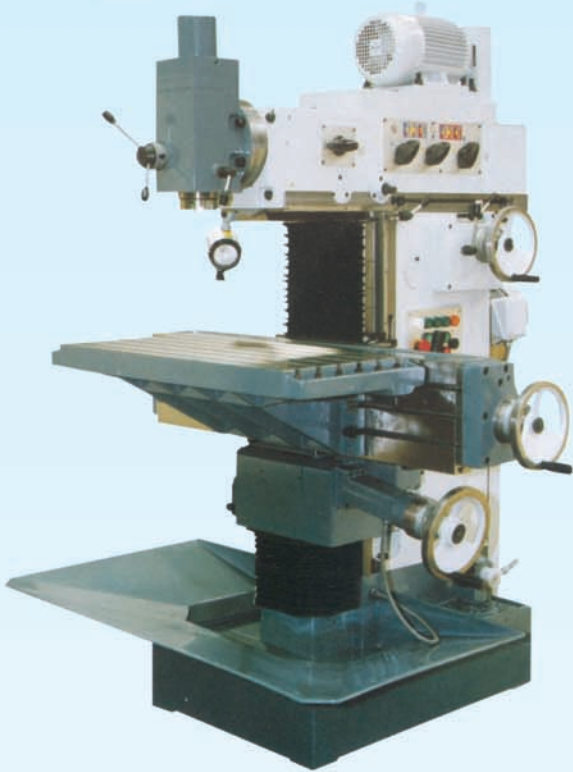
BM716



Model	Unit	BM713	BM714	BM715	BM716
Spindle taper		ISO40	ISO50	ISO50	ISO50
Table size	mm	1525 × 320	1400 × 400	2100 × 500	2500 × 600
Table travel	mm	1050 × 470	800 × 400	1500 × 670	1500 × 650 × 700
Spindle quill travel	mm	127	105	–	–
NO./width/distance of T-slot	mm	3-14-80	3-18-100	4-20-100	3-22-152
Spindle speed steps		10	variable speed	12	12
Spindle speed range	r.p.m	70-3620	18-1800	35-1345	50-1624
Distance between spindle axis and column guideway	mm	450	520	610	110
Distance between spindle nose and table surface	mm	75-595	150-650	0-670	0-700
Spindle motor power	HP	5	7.5	7.5	11
Overall dimension(L × W × H)	mm	2565 × 1920 × 2290	2290 × 2040 × 2120	3300 × 2380 × 2750	3200 × 3200 × 2720
Net weight	kg	2520	3860	7300	12000

UNIVERSAL TOOL MILLING MACHINE

UTM400A



ACCURACY OF MANUFACTURE
Flatness : 0.02/300mm
Finish : 1.6

STANDARD ACCESSORIES:

- * Complete tool
- * Cutter arbor (dia. Φ 16, 22, 27, 32mm)
- * Reducing sleeves (Morse 1, 2, 3)
- * Spring collect (dia. Φ 2, 3, 4, 5, 6, 8, 10, 12mm)

OPTIONAL ACCESSORIES:

- * Dividing head
- * Machine vice
- * Universal angular table
- * Rotary table
- * Boring head
- * 3-axis digital position indicator

UTM300A



Model	UTM300A	UTM320A	UTM-400A
Work space dimensions	300x750 mm	320x750 mm	400x800 mm
Vertical table dimensions	225x830 mm	225x830 mm	250x1060 mm
T-slots, work table	5x14x63 mm	5x14x63 mm	6x14x63 mm
T-slots, vertical table	2x14x126 mm	3x14x63 mm	3x14x63 mm
Longitudinal travels(X)	405(manual)/395 mm	45(manual)/400 mm	500 mm
Transverse travel(Y)	200 mm	305(manual)/300 mm	400 mm
Vertical travel(Z)	390(manual)/380 mm	400(manual)/390 mm	400 mm
Horizontal spindle(Min.)	35 mm	85 \pm 63 mm	95 \pm 63 mm
Horizontal spindle(Max.)	425 mm	485 \pm 63 mm	475 \pm 63 mm
Vertical spindle(Min.)		85 \pm 63 mm	55 \pm 63 mm
Vertical spindle(Max.)		440 \pm 63 mm	445 \pm 63 mm
Max.throat	188 mm	160 mm	540 mm
Speed range	40-1600 r/min	40-2000 r/min	40-2000 r/min
Spindle mount	ISO 40, Taper 7:24	ISO 40, 7:24	ISO 40, Taper 7:24
X,Y,Z axis feeds		10-380 mm/min	10-380 mm/min
Rapid feed		1200 mm/min	1200 mm/min
Quill stroke	80 mm	80 mm	80 mm
Main motor rating	2.2 kw	2.2 kw	3 kw
Feed motor rating		3.59 kw	5 kw
Dimensions(LxWxH)	1170x1210x1600 mm	1215x1200x1800 mm	1390x1430x1820 mm
Weight	1100 Kg	1300 kg	1400 Kg

- Milling machine for tool construction;
- Automatic feeds on all 3 axes;
- Outer arbor supporting for horizontal milling;
- Heavily ribbed cast-iron machine stand ensures maximum static and dynamic rigidity;
- Streamlined arrangement of operating controls on the right side;
- Vertical head quill for drilling, with hand lever feed;
- Quill stroke 80mm;
- Central lubrication;
- Hardened guide ways;
- Can be equipped with digital position indicator.

CNC MILLING MACHINE

KBM-1354B



STANDARD ACCESSORIES:

- * Semi-isolated table shield
- * Cutting fluid circulation system
- * Auto. Lubrication system
- * Spindle air flow
- * Working light
- * Level adjusting screw and block
- * Clamping apparatus

OPTIONAL ACCESSORIES:

- * The forth axis revolving table
- * Vertical arm type ATC
- * Full closed safety cover
- * Cutter length measuring unit
- * Edge finder
- * Shank

- The spindle system features strong rigidity, it's suitable for rough machining and force cutting; hence improve machining efficiency, features long travel, heavy loading.
- The machine can be used for drilling, boring, lathing, and milling.
- The machine is adopt rectangular guide ways, features strong rigidity and high accuracy.
- Radial tool holder of facing head on the headstock head for radial machining
- Optional digital readout device, reading accuracy 0.01 mm, positioning accuracy 0.05 mm

KBM-1354B



with optional ATC equipment

Model	KBM-1354B	KBM-1654	KBM-2063	KBM-2473
Table size(LxW/mm)	1370x330	1370x406	1600x510	1854x610
Table loading capacity(kg)	400	800	1200	1500
T-slots(W/mmxNO)	16x3	16x5	18x5	18x5
X-axis(mm)	800	1000	1200	1500
Y-axis(mm)	450	480	700	700
Z-axis(mm)	480	600	600	700
Max.move speed(mm/min)	8000	8000	10000	10000
Max.feed speed(mm/min)	3000	3000	4000	4000
Spindle speed(rpm/min)	RANGE:40~6000			
Spindle nose	BT40	BT40	BT40/ BT50	BT40/ BT50
Spindle motor(kw)	5.5	7.5	7.5	7.5
Servo motor(kw)	X/Y:1.0,Z:1.5	X/Y/Z:1.5	X/Y/Z:2.0	X/Y/Z:2.0
Spindle quill diameter(mm)	120	150	150/160	150/160
Spindle to column surface(mm)	450	520	640	695
X-axis(mm)	32x5p4Double nuts	32x5p4Double nuts	40x10p4Double nuts	
Y-axis(mm)	32x5p4Double nuts	40x5p4Double nuts	40x10p4Double nuts	
Z-axis(mm)	32x5p4Double nuts	40x5p4Double nuts	40x10p4Double nuts	
Positioning accuracy	± 0.015mm	± 0.015mm	± 0.015mm	± 0.015mm
Repeatability	± 0.008mm	± 0.008mm	± 0.008mm	± 0.008mm
Packing dimension(L × W × H)(mm)	2250x2280x2450	2500x2280x2650	2900x2950x2800	2900x3150x2900
Machine weight(kg)	2600	3800	5000	6000

VERTICAL MACHINING CENTER



VMC500



VMC745



VMC700



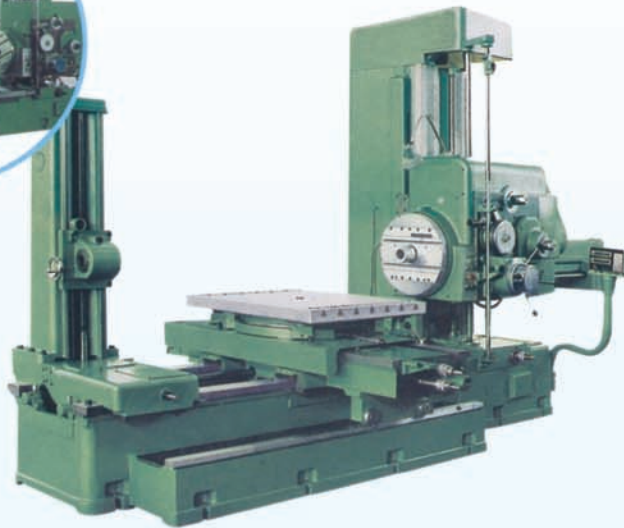
VMC1060

- FANUC 0i mate-MD CNC system;
- High precision and speed spindle unit;
- Umbrella type magazine;
- Floating tools clamping system;
- Separated type electronic hand wheel (MPG);
- RS232 interface;

- Oil and water separated design;
- Interval auto-lubricating;
- Full splash guard;
- Tricolor alarm light;
- 3-axis slide guide-ways for VMC745 and VMC1060;
- Others are 3-axis linear guide-ways.

Model	Unit	VMC500	VMC745	VMC745L	VMC700	VMC850	VMC1060	VMC1060L
X-axis travel	mm	500	700	600	700	800	1000	1000
Y-axis travel	mm	320	450	450	450	500	600	600
Z-axis travel	mm	400	500	500	500	500	500	500
Spindle nose to table	mm	125-520	145-645	130-630	110-610	110-610	150-650	130-630
Spindle center to column guideway face	mm	360	460	485	457	561	655	655
Rapid feeding of X,Y axis	mm/min	24000	12000	24000	24000	24000	15000	24000
Rapid feeding of Z axis	mm/min	18000	10000	18000	18000	18000	12000	18000
Feeding speed	mm/min	1-5000	1-5000	1-5000	1-5000	1-5000	1-5000	1-5000
Table size	mm	800x320	700x450	800 x450	1000x400	1500x850	1300 x 600	1300 x 600
Max.loading capacity of table	kg	300	600	550	550	650	800	750
T-slot NO./width/distance of table		3/14/100	3/18/125	3/18/160	5/18/80	5/18/90	5/18/125	5/18/125
Spindle max.speed	r/min	10000	8000	8000	8000	8000	8000	8000
Main motor rated power	kw	3.7/5.5	5.5/7.5	5.5/7.5	5.5/7.5	5.5/7.5	7.5/11	7.5/11
Spindle nose taper		BT30	BT40	BT40	BT40	BT40	BT40	BT40
Magazine capacity	pcs	10	16	16	16	16	16	16
Magazine style		Umbrella	Umbrella	Umbrella	Umbrella	Umbrella	Umbrella	Umbrella
Max.diameter of tool	mm	Φ60	Φ80	Φ80	Φ80	Φ80	Φ80	Φ80
Max.length of tool	mm	200	300	300	300	300	300	300
Max. weight of tool	kg	5	6	6	6	6	6	6
Pneumatic press	mpa	0.6	0.6	0.6	0.6	0.6	0.6	0.6
N.W	kg	2600	3500	3500	4600	5500	6500	6500
Overall dimension(L x W x H)	mm	1600x1840x2110	2500x2000x2450	2500x2000x2450	2500x2000x2450	2850x2100x2650	2920 x 2930 x 2530	2920 x 2930 x 2530

HORIZONTAL BORING MILLING MACHINE



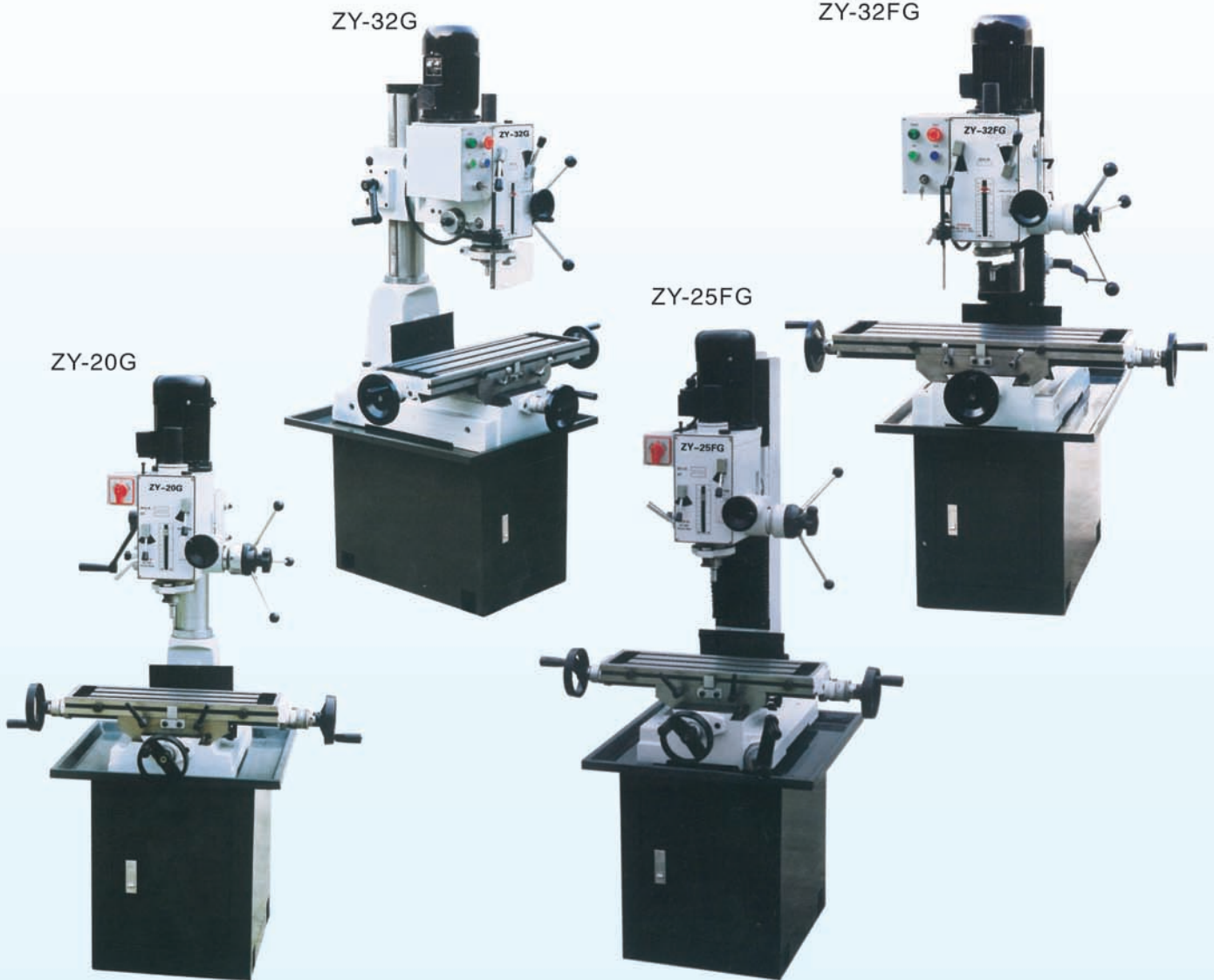
OPTIONAL ACCESSORIES:

- * Boring tool rod
- * Universal boring rack
- * Facing head frame
- * Removable facing head
(only for TX-100E)
- * Universal milling head
(only for TX-100E)
- * Back column
- * Spanner

- In comparison with the same specification products, the boring bar of this series of boring machines is strengthened. It is suitable for forcing cutting;
- Each part of the machine is square guideway structure. So the rigidity of them is stronger and accuracy stability is very good;
- Model TX-100C/TX-100D/TX-100E of this series are equipped with steel-inlaid auxiliary guideway for increasing transverse travel, hence machining range can be enlarged;
- Equipped with fixed or removable facing plate so they can machine rather big hole and plane;
- This series can be equipped with digital readout unit. Reading accuracy is 0.01mm and positioning accuracy is 0.03mm.

Model	Unit	TX-100B	TX-100C	TX-100D	TX-100E
Spindle diameter	mm	110	110	110	110
Workable size (L x W)	mm	1320 x 950	1320 x 950	1320 x 950	1100 x 950
Max loading of worktable	kg	2500	2500	2500	2500
Distance from spindle center to table top	mm	5-905	5-905	5-905	5-905
Longitudinal and transverse travel of table	mm	1100 x 850	1100 x 1200	1100 x 1800	1100 x 1200
Headstock vertical travel	mm	900	900	1200	900
Spindle axial travel	mm	550	550	550	600
Max boring diameter	mm	240	240	240	240
Max drilling diameter	mm	50	50	50	50
Inner hole taper of spindle	morse	No.6	No.6	No.6	No.6
Facing head tool holder's radial travel	mm	160	160	160	160
Max working dia., of facing head tool holder	mm	630	630	630	630
Max allowable torque on spindle	N.m	1100	1100	1100	1100
Max allowable torque on facing head	N.m	1100	1100	1100	1100
Max allowable axial feed force on spindle	N	13000	13000	13000	13000
Spindle speed steps		18	18	18	18
Facing head speed steps		16	16	16	16
Spindle speed range	rpm	12-950	12-950	12-950	12-950
Facing head speed range	rpm	4-160	4-160	4-160	12-125
Main motor power	kw	6.5/8	6.5/8	6.5/8	6.5/8
Overall dimensions(L x W x H)	mm	4970 x 2100 x 3010	4970 x 2330 x 3010	4970 x 2717 x 3120	4970 x 2330 x 3010
Net weight	kg	10700	12500	14500	12500

DRILLING MILLING MACHINE



Model	ZY-20G	ZY-25FG	ZY-32G	ZY-32FG	ZY-40G	ZY-40FG	ZY-45G	ZY-45FG
Drilling capacity	20mm	25mm	32mm	32mm	40mm	40mm	45mm	45mm
Face milling capacity	63mm	63mm	63mm	63mm	80mm	80mm	80mm	80mm
End milling capacity	20mm	20mm	20mm	20mm	32mm	32mm	32mm	32mm
Distance from spindle nose to table	439mm	445mm	440mm	450mm	440mm	450mm	440mm	450mm
Min. distance from spindle axis to column	197.5mm	203mm	272.5mm	260mm	272.5mm	260mm	272.5mm	260mm
Spindle travel	85mm	85mm	130mm	130mm	130mm	130mm	130mm	130mm
Spindle taper	M.T.3 or R8	M.T.3 or R8	M.T.3 or R8	M.T.3 or R8	M.T.4 or R8	M.T.4 or R8	M.T.4 or R8	M.T.4 or R8
Step of spindle speed	6	6	6	6	6	6	6	6
Range of spindle speed 50Hz	95-1420r.p.m	95-1420r.p.m	80-1250r.p.m	80-1250r.p.m	80-1250r.p.m	80-1250r.p.m	80-1250r.p.m	80-1250r.p.m
Range of spindle speed 60Hz	115-1700r.p.m	115-1700r.p.m	95-1500r.p.m	95-1500r.p.m	95-1500r.p.m	95-1500r.p.m	95-1500r.p.m	95-1500r.p.m
Swivel angle of headstock (horizontally / perpendicularly)	360° / ±90°	90°	360° / ±90°	90°	360° / ±90°	90°	360° / ±90°	90°
Table size	520 × 160mm	520 × 160mm	800 × 240mm	800 × 240mm	800 × 240mm	800 × 240mm	800 × 240mm	800 × 240mm
Forward and backward travel of table	140mm	140mm	175mm	175mm	175mm	175mm	175mm	175mm
Left and right travel of table	290mm	290mm	500mm	500mm	500mm	500mm	500mm	500mm
Motor power	0.37KW	0.37KW	0.75KW(1HP)	0.75KW(1HP)	1.1KW(1.5HP)	1.1KW(1.5HP)	1.5KW(2HP)	1.5KW(2HP)
Net weight/gross weight	130kg/190kg	180kg/240kg	315kg/365kg	320kg/370kg	318kg/368kg	323kg/373kg	320kg/370kg	325kg/375kg
Packing size(L × W × H)	680 × 750 × 1000mm	680 × 750 × 1000mm	770 × 880 × 1160mm	770 × 880 × 1160mm	770 × 880 × 1160mm	770 × 880 × 1160mm	770 × 880 × 1160mm	770 × 880 × 1160mm

DRILLING (MILLING) MACHINE

D-30A



GHD-40



GHM-40A



MD-30A



GHD-40A



GHM-45B



GHM-50B

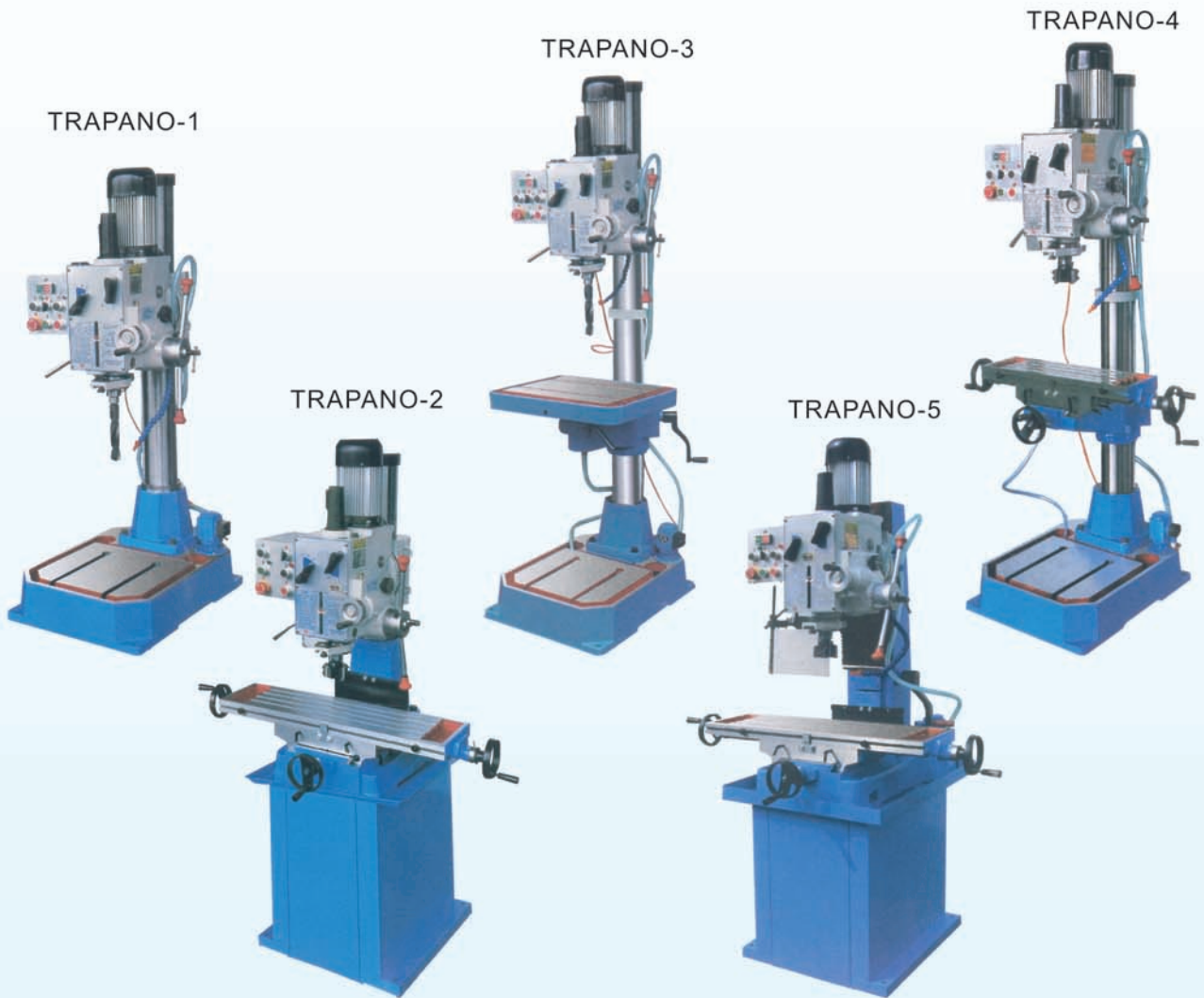


MD-30B



Model	D-30A	MD-30A	MD-30B	GHD-40	GHD-40A	GHM-40A	GHM-45B	GHM-50B
Max. Drilling capacity (mm)	31.5	31.5	31.5	40	40	40	45	50
Width of facing milling (mm)	/	80	80	/	/	80	80	120
Diameter of facing milling (mm)	/	22	22	/	/	22	28	32
Diameter of column (mm)	115	115	115	115	115	115	/	/
Spindle travel (mm)	130	130	130	120	120	120	120	130
Distance spindle axis to column generating line (mm)	202	202	202	272.5	272.5	272.5	260	380
Max. Distance spindle nose to table (mm)	790	745	460	/	745	745	475	500
Max. Distance spindle nose to base (mm)	1245	1245	/	800	1200	1245	/	/
Spindle taper	MT3	MT3	MT3	MT4	MT4	MT4	MT4	MT5
Spindle speeds range	100-2150	100-2150	100-2150	95-1600	95-1600	95-1600	95-1600	60-2200
Spindle speeds series (r/min)	12	12	12	6	6	6	6	12
Dimension of worktable surface	570 × 470	585 × 190	730 × 210 or 820 × 240	/	540 × 470	585 × 190	730 × 210 or 820 × 240	900 × 320
Table travel (mm)	515	370 × 140 × 515	450 × 170 or 540 × 170	/	515	370 × 140 × 515	450 × 170 or 540 × 170	400 × 320
Dimension of base (mm)	690 × 520	690 × 520	/	690 × 520	635 × 460	690 × 520	605 × 558	/
Overall height (mm)	1810	1810	1100	1450	1760	1810	1050	2230
Main motor (W)	1100 or 1500	1100 or 1500	1100 or 1500	750 or 1100	750 or 1100	750 or 1100	750 or 1100	1500/2200
G.W/N.W (kg)	360/320	360/320	285/250	310/270	350/310	375/335	318/278	1700/1500
Packing dimension (L × W × H) (cm)	86 × 78 × 191	86 × 78 × 191	86 × 74 × 116 or 97 × 77 × 116	75 × 73 × 146	72 × 74 × 191	72 × 74 × 191	86 × 74 × 116 or 97 × 77 × 116	142 × 132 × 280

AUTO-FEEDING DRILLING (MILLING) MACHINE



Model	TRAPANO-1	TRAPANO-2	TRAPANO-3	TRAPANO-4	TRAPANO-5
Max. Drilling capacity (mm)	40	40	40	40	45
Width of facing milling (mm)	/	80	/	80	80
Diameter of facing milling (mm)	/	22	/	22	28
Diameter of column (mm)	115	115	115	115	/
Spindle travel (mm)	110	110	110	110	110
Distance spindle axis to column generating line (mm)	261.5	261.5	261.5	261.5	260
Max. Distance spindle nose to table (mm)	/	450	745	745	475
Max. Distance spindle nose to base (mm)	800	/	1245	1245	/
Spindle taper	MT4/R8	MT4/R8	MT4/R8	MT4/R8	MT4
Spindle speeds range	50-1250	50-1250	50-1250	50-1250	50-1250
Spindle speeds series (r/min)	6	6	6	6	6
Spindle feeds (mm/r)	0.12, 0.18, 0.25	0.12, 0.18, 0.25	0.12, 0.18, 0.25	0.12, 0.18, 0.25	0.12, 0.18, 0.25
Dimension of worktable surface	/	730 x 210 or 820 x 240	540 x 470	585 x 190	730 x 210 or 820 x 240
Table travel (mm)	/	450 x 170 or 540 x 170	515	370 x 140 x 515	450 x 170 or 540 x 170
Dimension of base (mm)	690 x 520	605 x 400	690 x 520	690 x 520	605 x 558
Overall height (mm)	1450	1100	1760	1810	1100
Main motor (W)	750 or 1100	750 or 1100	750 or 1100	750 or 1100	750 or 1100
Coolant motor (W)	40	40	40	40	40
G.W/N.W (kg)	360/320	370/330	390/350	390/350	385/345
Packing dimension (L x W x H)(cm)	75 x 73 x 146	86 x 74 x 116 or 97 x 77 x 116	72 x 74 x 191	72 x 74 x 191	86 x 74 x 116 or 97 x 77 x 116

DRILLING MILLING MACHINE



Model	ZX30	ZX40	ZX45	ZX7045
Max.drilling capacity(iron/steel)	31.5/25mm	40/31.5mm	40/31.5mm	40/31.5mm
Max.mill capacity(face/end)	76/20mm	80/32mm	80/32mm	80/32mm
Spindle taper	MT3/R8	MT3/MT4/R8/ISO30	MT3/MT4/R8/ISO30	MT3/MT4/R8/ISO30
Worktable size	730 × 210mm	730 × 210mm	800 × 240mm	800 × 240mm
Worktable travelX/Y	500/230mm	500/230mm	570/230mm	570/230mm
Head tilt left right		90°	90	90°
Spindle box swivel degree	360°	360°		
Spindle travel	130mm	130mm	130mm	130mm
Spindle nose to worktable	440mm	470mm	470mm	470mm
Spindle speeds	50HZ: 100–2080/60HZ: 140–2436rpm	6steps:60Hz 90–1970rpm	50Hz 75–1600rpm	12steps:75–3200r/min
Motor	1.5kw	1.1kw	1.1kw	0.85/1.1kw
N.W/G.W	300/350KG	270/300KG	300/350KG	300/350KG
Packing size(L × W × H)	950 × 760 × 1150mm	820 × 760 × 1150mm	850 × 760 × 1150mm	1140 × 960 × 2240mm

VERTICAL DRILLING MACHINE



Model	ZX20	ZX20E
Max.drill capacity	20mm	20mm
Max.mill capacity	63mm/12mm	63mm/12mm
Spindle taper	MT3	MT3
Spindle stroke	90mm	90mm
Spindle speeds	210,380,710,1200,2000rpm	380,520,800,1200,2000rpm
Max. track	500mm	370mm
Radial rise–fall stroke	370mm	350mm
Motor	0.75kw	0.75kw
N.W/G.W	354kg/400kg	225kg/250kg
Packing size(L × W × H)	1130x560x1225mm	760x474x1120mm

Model	D2	D3	D4
Drilling capacity	25mm	25mm	25mm
Spindle taper	MT3	MT3	MT3
Drilling depth	150mm	150mm	150mm
Spindle speeds	8	8	8
Spindle speed range	100–2900rpm	100–2900rpm	100–2900rpm
Spindle to column	225mm	225mm	315mm
Spindle to table	410mm	600mm	660mm
Column diameter	98mm	98mm	117mm
Base dimensions	300 × 300mm	400 × 550mm	550 × 780mm
Table dimensions		round390mm	420 × 320mm
Motor power	0.75–0.55kw	0.75–0.55kw	0.75–0.55kw
Machine height	1230mm	1900mm	2070mm
Packing size(L × W × H)	520 × 740 × 1050mm	1820 × 550 × 900mm	1950 × 700 × 1050mm
N.W./G.W.	200/260kg	300/360kg	500/560kg

VARIABLE SPEED VERTICAL DRILLING MACHINE

- Easy removing tools;
- Brush-less DC motor;
- Variable spindle speed;
- Feeding depth and spindle speed digital readout;
- Touch switch tapping function.



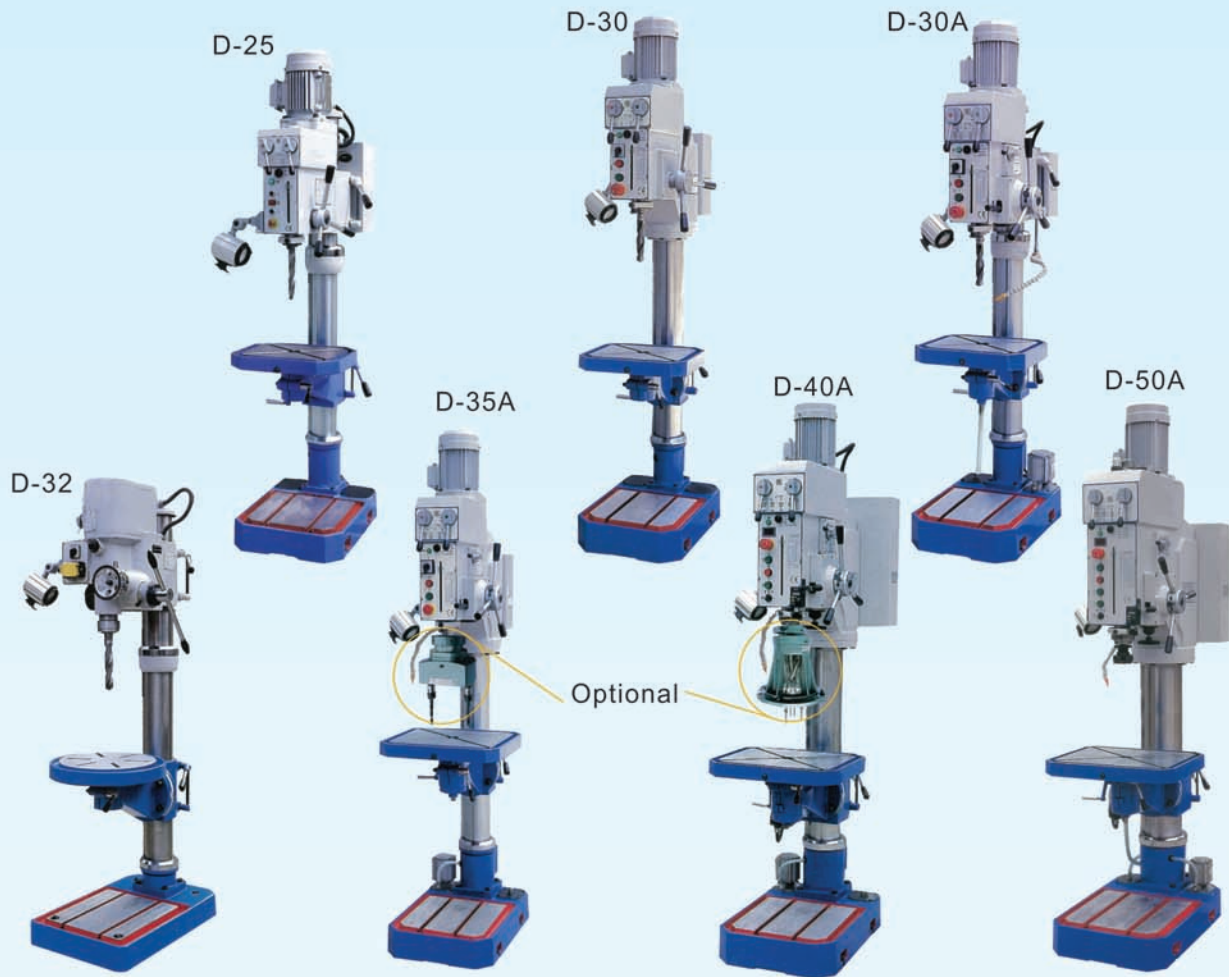
Model	Unit	Z2	Z3	Z4
Max. drilling capacity	mm	20	25	30
Max. tapping capacity	mm	12	14	20
Taper of spindle hole		MT2	MT3	MT3
Spindle speed	r.p.m	100-1500	100-1800	H:200-1800 L:100-900
Distance from spindle axis to column surface	mm	250	280	310
Max. distance from spindle nose to worktable	mm	380	460	600
Max. distance from spindle nose to base surface	mm	750	930	1160
Dimension of workable surface	mm	320x360	400x350	440x390
Diameter of column	mm	90	110	120
Overall height	mm	1218	1450	1805
Output motor	w	1000	1500	1500
T slot size	mm	12	14	14
Overall size:(LxWxH)	mm	680x386x1218	740x450x1450	844x558x1805
Packing size:(LxWxH)	mm	805x570x1395	860x605x1615	900x640x2010
N.W./G.W.	kg	230/300	330/400	580/660



SB-25

Model	Unit	SB-25	SB-35
Max. drilling diameter(steel).	mm	25	35
Max. tapping diameter (mm)	mm	M12	M20
Max. travel of spindle(mm)	mm	110	160
Max. distance from spindle to generating line of column	mm	230	320
Max. distance from spindle nose to surface of worktable	mm	690	625
Max. distance from spindle nose to surface of? base worktable	mm	1180	1180
Max Travel of worktable and bracket	mm	555	585
Spindle taper bore		MT3	MT4
Spindle speed steps		Stepless	Stepless
Spindle speed range(r/min)	r.p.m	80~1600	85~1800
Spindle feed steps			3
Spindle feed range	mm/r		0.1,0.2,0.3
Dimension of worktable(mm)	mm	400x320	500x420
Effective working area of worktable(mm)	mm	340x320	370x360
Diameter of column(mm)	mm	100	120
Power of motor(kw)	kw	0.70/1.3	1.0/1.7
Overall size:(LxWxH)	mm	820x530x1715	965x515x1920
Packing size:(LxWxH)	mm	840x480x1800	1100x600x2010
N.W./G.W.	kg	245/280	450/500

VERTICAL DRILLING MACHINE



Model	D-25	D-30/D-30A	D-32A	D-32	D-35/D-35A	D-40A	D-50A
Max. Drilling dia.(steel) and tapping dia.(mm)	Φ25/M16	Φ30/M20	Φ32/M22	Φ32/M20	Φ35/M22	Φ40/M24	Φ50/M27
Max. travel of spindle (mm)	110	110	160	150	160	190	200
Max. distance from spindle to generating line of column (mm)	240	260	320	300	320	340	360
Max. distance from spindle nose to surface of worktable (mm)	630	670/685	630	800	585	665	590
Max. distance from spindle nose to surface of base worktable (mm)	1100	1150/1165	1185	1225	1140	1195	1175
Max. travel of spindle box (mm)	250	180	285	270			
Max. travel of worktable bracket/Manual (Mechanical) (mm)	450	605/500	415	550	545	570(450)	530(410)
Swivel angle of worktable		± 45°	± 45°		± 45°	± 45°	± 45°
Spindle taper bore (MT)	3	3	4	4	4	4	4
Spindle speed steps	6	12	12	12	12	12	12
Spindle speed range (r/min)	125-2825	125-3030	125-3030	78-2500	125-3030	76-2065	52-1400
Spindle feed steps		3	3		3	3	4
Spindle feed range (mm/r)		0.1,0.2,0.3	0.1,0.2,0.3		0.1,0.2,0.3	0.1,0.2,0.3	0.1,0.2,0.3,0.4
Dimension of worktable(mm)	350x400	420x350	500x420	190	500x420	520x440	580-460
Effective working area of worktable	310x320	335x340	400x360	365x415	400x360	405x395	445x435
Diameter of column (mm)	Φ95	Φ110	Φ120		Φ120	Φ140	Φ160
Power of motor (kw)	0.75	0.85/1.1	1/1.2	1/1.3/1.7	1/1.2	1.5	2.2
Machine dimension (L × W × H)(mm)	700x500x1900	700x465x2060	835x500x1960	780x505x1910	835/510x1730	849x545x2290	940x680x2405
Packing dimension (L × W × H)(mm)	830x530x1950	870x550x2220	960x580x2080	880x620x1980	940x570x2120	1000x650x2220	1170x680x2300
Net weight/gross weight (kg)	300/350	340/380	500/555	420/465	430/475	565/615	620/675

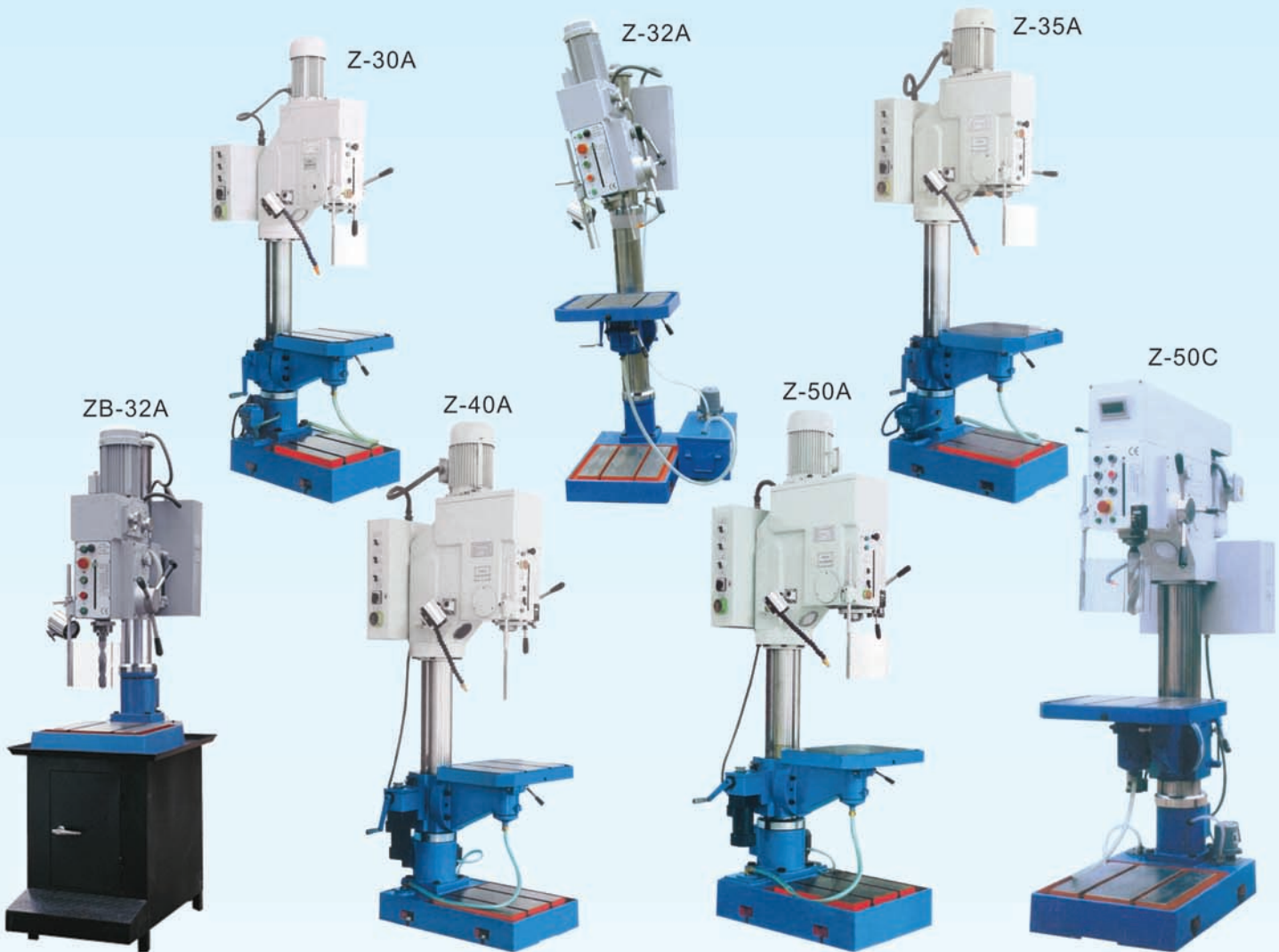
VERTICAL DRILLING MACHINE

Model	DB-25	DB-30/DB-30B	DB-35/DB-35B
Max. Drilling dia.(steel) and taping dia.(mm)	Φ25/M16	Φ30/M20	Φ35/M22
Max. travel of spindle (mm)	110	135	160
Max. distance from spindle to generating line of column (mm)	240	260	320
Max. distance from spindle nose to surface of base worktable (mm)	650	700	645
Max. travel of spindle box (mm)	500	520	515
Spindle taper bore (MT)	3	3	4
Spindle speed steps	6	12	12
Spindle speed range (r/min)	125-2825	125-3030	125-3030
Spindle feed steps	---	3	3
Spindle feed range (mm/r)	---	0.1,0.2,0.3	0.1,0.2,0.3
Effective working area of worktable(mm)	310x320	335x340	400x360
Diameter of column (mm)	Φ95	Φ110	Φ120
Power of motor (kw)	0.75	0.85/1.1	1/1.2
Machine dimension (L x W x H) (mm)	700x500x1500	740x420x1610	810x460x1640
Packing dimension (L x W x H) (mm)	820x620x2250	820x620x2270	820x620x2290
Net weight/gross weight (kg)	230/280	315/365	340/385



Model	DC-30A	DC-35A/DC-35B	DC-40A/DC-40B	DC-50A/DC-50B	DC-50C
Max. Drilling dia.(steel) and taping dia.(mm)	Φ30/M20	Φ35/M22	Φ40/M24	Φ50/M32	50/M32
Max. travel of spindle (mm)	155	190	200	240	200
Max. distance from spindle to generating line of column (mm)	320	340	360	360	360
Max. distance from spindle nose to surface of worktable (mm)	625	665	590	590	600
Max. distance from spindle nose to surface of base worktable (mm)	1180	1195	1175	1170	1185
Max. travel of worktable bracket/Manual(Mechanical) (mm)	560	570(450)	530(410)	530(410)	530(410)
Swivel angle of worktable	± 45°	± 45°	± 45°	± 45°	± 45°
Spindle taper bore (MT)	MT4	MT4	MT4	MT4	M74
Spindle speed steps	12	12/Stepless	12/Stepless	12/Stepless	stepless
Spindle speed range (r/min)	125-3030	76-2085/60-3600	52-1400/50-2200	52-1400/50-2200	50-1500
Spindle feed steps	3	3/4	4	4/6	4
Spindle feed range (mm/r)	0.1,0.2,0.3	0.1,0.2,0.3,0.4	0.1,0.2,0.3,0.4	0.1,0.2,0.3,0.4,0.5	0.1,0.3,0.3,0.4
Dimension of worktable(mm)	500x420	520x440	580x460	580x460	580x460
Effective working area of worktable	370x360	405x395	445x435	445x435	445x435
Diameter of column (mm)	Φ120	Φ140	Φ160	Φ180	Φ180
Power of motor (kw)	1.0/1.2	1.5	2.2	3	2.4/3
Machine dimension(L x W x H) (mm)	875x510x2140	849x545x2290	940x680x2405	950x680x2405	1034x680x2000
Packing dimension (L x W x H) (mm)	960x590x2230	1000x650x2220	1170x680x2300	1170x680x2300	1170x680x2300
Net weight/gross weight (kg)	545/600	565/615	620/675	655/710	670/730

VERTICAL DRILLING MACHINE



Model	Z-30A	ZB-32A	Z-32A	Z-35A	Z-40A	Z-50A	Z-50C
Max. Drilling capacity(mm)	30	32	32	35	40	50	50
Max. Tapping capacity(mm)	M20	M20	M20	M24	M27	M30	M30
Diameter of column(mm)	120	120	120	140	160	160	160
Spindle travel(mm)	135	160	160	200	180	240	180
Distance Spindle axis to column(mm)	320	350	350	330	360	360	360
Max. Distance spindle nose to table(mm)	550		630	630	600	600(580)	600(580)
Max. Distance spindle nose to base(mm)	1100	750	1200	1200	1200	1200	1200
Spindle taper	MT3	MT4	MT4	MT4	MT4	MT4	MT4
Spindle speed rang(r/min)	65 ~ 2600	65 ~ 2600	65 ~ 2600	65 ~ 2600	42 ~ 2050	42 ~ 2050	48 ~ 1500
Spindle speeds series	12	12	12	12	12	12	stepless
Spindle feeds(mm/r)	0.1, 0.2, 0.3	0.1, 0.2, 0.3	0.1, 0.2, 0.3	0.1, 0.2, 0.3	0.1, 0.2, 0.3, 0.4	0.1, 0.2, 0.3, 0.4	0.08, 0.16, 0.27, 0.35
Dimension of worktable surface(mm)	500 × 450		500 × 450	450 × 390	510 × 380	510 × 380	510 × 380
Max. travel of worktable (mm)	480		550	520	420	420	320
Dimension of base(mm)	400 × 360	42 × 400	480 × 450	405 × 395	450 × 440	450 × 440	450 × 440
Worktable and base T-slot(mm)	2-14; 2-18	2-18	2-14; 2-18	2-14; 2-18	2-14; 2-18	2-14; 2-18	2-14; 2-18
Power of Main motor (kW)	1.0/1.5	1.0/1.5	1.0/1.5	1.5/2.2	2.2/2.8	2.2/2.8	2.4/3.0
Coolant motor (L/Min)	6	6	6	6	6	6	6
G.W/N.W (kg)	500/440	470/420	550/500	600/550	750/690	750/690	730/670
Packing dimension (L × W × H)(cm)	94 × 57 × 225	85 × 55 × 142	103 × 61 × 209	100 × 61 × 215	110 × 67 × 215	110 × 67 × 223	110 × 67 × 215

BOX-COLUMN TYPE DRILLING MACHINE

Model	SD-40A	SD-50A	SD-63B	SD-80B
Max. drilling diameter(mm)	40	50	63	80
Max. feeding resistance (N)	16000	16000	30000	30000
Max. permissible spindle torque(N · m)	350	350	800	800
Spindle taper	Morse No.4	Morse No.5	Morse No.6	Morse No.6
Distance of spindle centerline to guide way face (mm)	335	335	375	375
Spindle travel (mm)	250	250	250	250
Spindle head travel (mm)	200	200	250	250
Spindle speed (rpm)	31.5-1400(12 steps)	45-850(9 steps)	40-570 (9 steps)	40-570 (9 steps)
Feed rate (mm/r)	0.056-1.80(9 steps)	0.056-1.80(9 steps)	0.1-0.78(6 steps)	0.1-0.78 (6 steps)
Table travel (mm)	300	300	300	300
Working talbe area (mm)	480x560	480x560	650x550	650x550
Distance of spindle nose to table face(mm)	750	725	800	800
Main motor power (kw)	3	4	5.5	5.5
Flow of cooling pump (L/M)	25	25	25	25
Overall dimension (L x W x H)(mm)	1040x905x2530	1040x905x2535	965x1452x2787	965x1452x2787
Net weight (kg)	1250	1250	2500	2550

SD-80B



SDB-40



BOX-COLUMN TYPE DRILLING MACHINE

Model	SDB-40	SDB-50	SDB-50B
Max. Drilling dia.(steel) (mm)	Φ40	Φ50	Φ50
Max. taping dia.(steel) (mm)	M28	M35	M30
Max. milling cutter diameter(mm)	Φ80	Φ80	80
Max. distance from spindle center to column guide surface (mm)	400	450	450
Max. distance between spindle end to the worktable surface	880	1050	550
Max. spindle stroke (mm)	200	280	200
Spindle taper bore (MT)	MT.4	MT.4	MT.4
Max. travel for the spindle box in up and down position (mm)	650	750	420
Speed of spindle box up and down (mm/min)			1780
Spindle speed steps	Stepless	Stepless	Stepless
Spindle speed range (r/min)	50-2200	40-1600	55-348,348-2200
Spindle feed steps	6	6	6
Spindle feed range (mm/r)	0.08-0.50	0.08-0.50	0.08-0.50
Worktable feed steps in X direction (step)			Stepless
Worktable feed range in X direction (mm/min)			4-480
Rapid moving speed of worktable in X direction			640
Travel of worktable in X and Y direction (mm)			450x340
Area of worktable (LxW)	700x500	800x600	960x340
Numbers and width of the T slots of worktable (mm)	3/18	3/18	3/14
Power of main motor(transducer motor)	2.2kw	3.7kw	2.2
Power and speed of motor for spindle box up and down (kw, r/mm)			1.1, 910
Parameter of power feed for worktable (V, N.m)			220, 20
Machine dimension (L x W x H) (mm)	1310x820x2200	1490x950x2370	1600x1450x2420
Packing dimension (L x W x H) (mm)	1420x980x2430	1600x1100x2600	1680x1280x2250
Machine weight (kg)	1100/1300	1350/1500	1500/1700

SDB-50B



RADIAL DRILLING MACHINE

Model	RMD-40/RMD-40A	RMD-40B	RMD-50B
Max. drilling dia. (steel)and tapping dia.	40/M30mm	40/M30mm	50/M36mm
Max.Milling cutter diameter	80mm	80mm	80mm
Max.travel of spindle	200mm	200mm	240mm
Distance between column center line to the T slot in the middle of worktable	640mm	640mm	630mm
Max.distance between spindle end to worktable	675mm	760mm	800mm
Max.travel of ram	580mm	590mm	665mm
Max.up down travel for spindle box	400mm	400mm	400mm
Turning angle of spindle box to the ram	± 90°	± 90°	± 90°
Spindle taper bore	MT4	MT4	BT40
Spindle speed steps	18/stepless	stepless	stepless
Spindle speed range(step-less)	40 ~ 2000r/min	50~2000r/min	48~2000r/min
Spindle feed steps	4	6	6
Spindle feed range	0.08,0.15,0.27,0.35mm/r	0.08~0.50mm/r	0.08~0.50mm/r
Dimension of worktable	1050 × 405	1200 × 505mm	1350x600mm
Diameter of column	220mm	220mm	240mm
Power of motor	2.2KW	2.2KW	3.7KW
Machine dimension (L × W × H)	2250 × 1300 × 2250mm	1910x1200x2400mm	2545x1350x2850mm
Net weight and gross weight	2660/2540KG	2800/2860KG	2885/3100KG



RADIAL DRILLING MACHINE

Model	RD516B	RD616B
Max. drilling diameter(on 45 steel)	Φ50	Φ62
Max. drilling diameter(on HT200 cast iron)	72mm	72mm
Max. distance from spindle to generating line of column	350-1600mm	350-1600mm
Distance of horizontal movement for spindle box(manual)	1250mm	1250mm
Max. distance between spindle end to base	350-1250mm	350-1250mm
Max. travel of the spindle	315mm	315mm
Spindle taper bore	MT.5	MT.5
Spindle speed steps	Stepless	Stepless
Spindle speed range	38-2000r/min	38-275;275-2000r/min
Spindle feed steps	8	8
Spindle feed range (mm/r)	0.06-1.00mm/r	0.06-1.00mm/r
Speed of rocker arm up and down movement	1.2m/min	1.2m/min
Rotation angle of rocker arm	± 180degree	± 180degree
Distance of spindle movement for calibrated dial each revolution	122mm	122mm
Power of main motor (transducer motor)	3.7KW	4KW
Power of motor for rocker arm up and down movement	1.1KW	1.5KW
Power of oil pump motor	0.75W	0.75W
Weight of machine (without worktable)	3500KG	3800KG
Machine dimension (LxWxH)	2490x1000x2598mm	2490x1000x2598mm

RADIAL DRILLING MACHINE

- Mechanical transmission;
- Mechanical clamping;
- Mechanical speed exchanging.



RU208



RL307



RL308A



RL410



RL413

Model	RU 208	RL307	RL309 RL409	RL308A RL408A	RL410A	RL310 RL410	RL413
Max. Drilling capacity(mm)	25	32	32/40	32/40	40	32/40	40
Distance spindle axis to column generating line(mm)	315-815	300-700	200-900	320-820	320-1020	200-1000	300-1300
Diameter of column(mm)	150	150	220	200	200	240	250
Spindle taper	MT3	MT3	MT4	MT4	MT4	MT4	MT4
Spindle travel	130	150	210	240	240	250	280
Spindle speeds range(r/min)	173,425,686,960	100-1600	75-1250	75-1220	75-1220	71-1800	78-1250
Spindle speeds steps	4	8	6	6	6	8	6
Spindle feeds (mm/r)		0.08, 0.14, 0.23	0.05-0.16	0.1-0.25	0.1-0.25	0.13-0.54	0.1-0.32
Spindle feeds steps		3	3	3	3	4	3
Rotary angle of rocker in horizontal plane(°)	360	360					
Distance between spindle nose to working surface of base(mm)	250-870	275-680	250-1100	320-900	320-900	264-1064	260-1200
Dimension worktable (mm)		250 × 250 × 250	400 × 400 × 350	400 × 400 × 350	400 × 400 × 350	400 × 450 × 400	600 × 410 × 450
Dimension of base(mm)	600 × 520	1200 × 625 × 255	1500 × 700 × 160	1370 × 700 × 160	1370 × 700 × 160	1500 × 740 × 160	1855 × 860 × 160
Overall size(mm)	1768 × 725 × 1984	1235 × 625 × 1230	1500 × 700 × 2100	1407 × 720 × 1885	1407 × 720 × 1885	1730 × 750 × 2350	1860 × 870 × 2340
Motor(w)	1.5	0.75 or 1.1	1.5	1.5	1.5	2.2/3	3
G.W./N.W.(Kg)	870/970	675/580	1380/1250	1425/1200	1450/1230	1700/1400	2500/2100
Packing dimension (cm)	204 × 97.6 × 242.8	127 × 69 × 138	160 × 75 × 220	155 × 77 × 210	175 × 77 × 210	187 × 97 × 217	190 × 100 × 230

RADIAL DRILLING MACHINE



- Hydraulic transmission;
- Hydraulic clamping;
- Hydraulic pre-selection;
- Hydraulic speed exchanging.

Model	RD310/RD410	RD416	RD516	RD520	RD620	RD825	RD1030	RD1240
Max. Drilling capacity (mm)	32/40	40	50	50	63	80	100	125
Distance spindle axis to column generating line (mm)	300-1000	350-1600	350-1600	350-2000	450-2050	500-2500	570-3150	600-4000
Diameter of column (mm)	240	350	350	350	450	550		
Spindle taper	MT4	MT4	MT5	MT5	MT5	MT6	MT6	Metric 80
Spindle travel (mm)	280	315	315	315	400	450	500	560
Spindle speeds range (r/min)	32-2500	25-2000	25-2000	25-2000	20-1600	16-1250	8-1000	6.3-800
Spindle speeds steps	16	16	16	16	16	16	22	22
Range of Spindle feeds (mm/r)	0.10-1.25	0.04-3.2	0.04-3.2	v	0.04-3.2	0.04-3.2	0.06-3.2	0.06-3.2
Spindle feeds steps	8	16	16	16	16	16	16	16
Max. Distance spindle nose to working surface of base (mm)	220-1000	350-1250	320-1220	320-1220	400-1600	550-2000	750-2500	750-2500
Dimension of worktable (mm)	600 x 450 x 450	630 x 500 x 500	630 x 500 x 500	630 x 550 x 500	960 x 630 x 500	1000 x 800 x 560	1250 x 800 x 560	1250 x 800 x 560
Dimension of base (mm)	1710 x 800 x 160	2400 x 1000 x 200	2400 x 1000 x 200	2400 x 1000 x 200	2900 x 1250 x 250	3530 x 1400 x 300		
Overall Size (mm)	1760 x 800 x 2050	2500 x 1060 x 2650	2500 x 1060 x 2650	2900 x 1060 x 2650	3110 x 1250 x 3150	3730 x 1400 x 3790	4780 x 1630 x 4600	5910 x 2000 x 5120
Power of Main motor (KW)	2.2	3	4	4	5.5	7.5	15	18.5
G.W/N.W (kg)	2100/1600	4500/3500	4300/3500	4350/3550	8000/7000	15000/11000	20000	28500
Packing dimension (cm)	187 x 97 x 217	270 x 112 x 258	270 x 112 x 258	320 x 112 x 258	347 x 147 x 235	416 x 165 x 248 and 382 x 163 x 170		

SURFACE GRINDING MACHINE

M618A



M820



MY820



M250



Model	Unit	M618A	M820/MY820	M250/MY250	MY 300	MY300A
Table Size(L × W)	mm	460x180	480x200	540x250	600 × 300	750 × 300
Max. table travel	mm	500x190	530x220	560x240	630 × 320	780 × 320
Max. workpiece to be ground	mm	500x190	520x220	540x240	630 × 310	780 × 310
Max. distance of table to spindle center	mm	335	490	490	550	550
Table slide-way		V-type rail with steel ball	Double V-type rail	Double V-type rail	V-type rail with steel ball	Double V-type rail
Cross feed on handwheel per revolution	mm	2.5	2.5	2.5	2.5	2.5
Cross feed on handwheel per graduation	mm	0.02	0.02	0.02	0.02	0.02
Vertical feed on handwheel per revolution	mm	1.25	1.25	1.25	1.25	2
Cross feed on handwheel per graduation	mm	0.01	0.01	0.01	0.01	0.01
Wheel speed	r.p.m	2850	2850	2850	2850	1450
Wheel size(dia. × width × bore)	mm	200 × 16 × 31.75	200 × 16 × 31.75	200 × 20 × 31.75	200 × 20 × 31.75	250 × 25 × 76
Spindle motor	w	1100	1100	1500	2200	2200
Hydraulic station motor	w		Null/1500	Null/1500	1500	2250
Working pressure	mpa		Null/3	Null/3	3	4
Max. flow	l/min		Null/18	Null/18	20	18
Fuel tank capacity	l		Null/80	Null/80	80	80
Coolant pump	w	40	40	40	40	40
Net weight	kg	650	750	900	1200	1300
Gross weight	kg	750	800/850	950/1000	1330	1430
Overall dimension(L × W × H)	m	1.55x1.06x1.59	1.68x1.14x1.80	1.80x1.40x1.80	1.90 × 1.53 × 1.83	1.88 × 1.48 × 1.85
Packing size(L × W × H)	m	1.06x1.17x1.87	1.14x1.24x1.96	1.30x1.63x1.96	1.98 × 1.53 × 2.03	1.91 × 1.50 × 2.03

SURFACE GRINDING MACHINE



Model	Unit	SG-2050AH	SG-2550AH	SG-3063AH	SG-30100AH	SG-4080AH	SG-40100AH
		SG-2050AHR	SG-2550AHR	SG-3063AHR	SG-30100AHR	SG-4080AHR	SG-40100AHR
		SG-2050AHD	SG-2550AHD	SG-3063AHD	SG-30100AHD	SG-4080AHD	SG-40100AHD
Table size(W × L)	mm	200 × 460	254 × 508	305 × 635	305 × 1020	406 × 813	406 × 1020
Max.longitudinal travel	mm	510	640	765	1130	910	1130
Max.distance from spindle center to table surface	mm	450	580	565	560	580	570
Magnetic chuck size	mm	200 × 450	250 × 500	300 × 600	300 × 1000	400 × 800	400 × 1000
Speed of table longitudinal movement	m/min	5~20	7~23				
Table transverse movement	Auto feed	mm	0.1~8				
	Rapid speed	mm/min	990				
	Feed of handwheel	mm/div.	0.02				
Wheelhead vertical movement	Auto feed	mm/stroke	0.005, 0.01, 0.02, 0.03, 0.04, 0.05 (AHD)				
	Rapid speed	mm/min	460 (AHR, AHD)				
	Feed of handwheel	mm/div.	0.01 (AH) , 0.005 (AHR, AHD)				
Grinding wheel	Speed	rpm	2850(50HZ),3450(60HZ)	1450(50HZ),1750(60HZ)			
	Size(OD × W × ID)	mm	200 × 20 × 31.75	350 × 40 × 127	400 × 40 × 203		
Motor of spindle	kw	1.5	5	7.5			
Max.loading capacity of table(include magnetic chuck)	kg	120	180	270	400	500	600
Total rated power	kw	3	8.5	10.5			
Height of machine	mm	1675	1890				
Floor space(L × W)	mm	1800 × 1400	2650 × 2150	2800 × 2200	4400 × 2200	3600 × 2400	4400 × 2400
Gross weight	kg	1700	2200	2700	3500	3800	4300
Package dimensions(L × W × H)	cm	190x170x218	200x210x218	235x222x220	295x222x220	285x227x220	295x227x220

- * H: hydraulic transmission on longitudinal, manual on transverse and vertical;
- * AH: auto feed on transverse, hydraulic transmission on longitudinal, manual on vertical;
- * AHR: auto feed on transverse, hydraulic transmission on longitudinal, rapid movement on vertical;
- * AHD: auto feed on transverse, hydraulic transmission on longitudinal, auto feed on vertical.

SURFACE GRINDING MACHINE



Model		Unit	GS-300A GS-300B GS-300C	GS-320A GS-320B GS-320C	GS-400A GS-400B GS-400C	GS-500A GS-500B GS-500C	GS-630A GS-630B GS-630C	GS-700A	GS-800A
Worktable size	Width	mm	300	320	400	500	630	700	800
	Length	mm	1000/1600/2200/ 3000/4500	1000/1600/2200/ 3000/4500	1000/1600/2200/ 3000/4500	1000/1600/2200/ 3000/4500	1250/1600/2200/ 3000/4500	1250/1600/2000/ 2500/3000	1250/1600/2000/ 2500/3000
Max processing dimension	Width	mm	300	320	400	500	630	700	800
	Length	mm	1000/1600/2200/ 3000/4500	1000/1600/2200/ 3000/4500	1000/1600/2200/ 3000/4500	1000/1600/2200/ 3000/4500	1250/1600/2200/ 3000/4500	1250/1600/2000/ 2500/3000	1250/1600/2000/ 2500/3000
	Height	mm	400 800 1200	400 800 1200	400 800 1200	500 800 1200	500 800 1200	600	600
Max. distance between spindle center line and worktable surface		mm	575 975 1375	575 975 1375	600 1000 1400	700 1000 1400	700 1000 1400	825	825
Longitudinal moving speed of worktable		m/min	3-27	3-27	3-25	3-27	3-27	6-25	3-25
T-slot number/width		pcs x mm	3 x 18	3 x 18	3 x 18	3 x 22	3 x 22	3 x 22	3 x 28
Wheelhead cross moving	Consecutive feed speed	m/min	0.5-4.5	0.5-4.5	0.5-4.5	0.5-4.5	0.5-4.5	0.5-2.5	0.5-2.5
	Intermittent feed speed	mm/t	3-30	3-30	3-30	3-30	3-30	3-20	3-20
	Hand wheel feed	mm/gra			0.02	0.01	0.01	0.175	0.175
Wheelhead vertical moving	Rapid feed	mm/min	400	400	400	400	400	600	600
	Hand wheel feed	mm/gra	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Wheelhead motor	Power	kw	5.5	5.5	7.5	7.5	7.5	15	15
	Rotation speed	r.p.m	1440	1440	1440	1440	1440	1460	1460
Total power		kw	9/11	9/11	11/13.5/15.75	12.25/13.75/15.75	13.75/15.75	28	28
Max. loading capacity of worktable(with chuck)		kg	470/750/1030/ 1400/2100	500/800/1100/ 1500/2250	620/1000/1380/ 1872/2810	700/1240/1410/ 1930/2895	1010/1290/1780/ 2430/3650	2000/2000/2176/ 2600/3200	2000/2000/2472/ 2900/3500
Wheel size(OD x W x ID)		mm	350 x 40 x 127	350 x 40 x 127	400 x 40 x 127	400 x 40 x 203	400 x 40 x 203	450 x 63 x 203	450 x 63 x 203
Overall dimension	Length	mm	2860/4250/5750/ 7880/12170	2860/4250/5750/ 7880/12170	3110/4250/5750/ 7880/12170	3110/4250/5750/ 7880/12170	3300/5320/5750/ 7880/12170	3540/4500/6250/ 7310/9000	3540/4500/6250/ 7310/9000
	Width	mm	1845	1865	1740	1900	1900	2350	2350/3600
	Height	mm	2030 2510 2930	2030 2510 2930	2230 2630 3030	2420 2720 3120	2420 2720 3120	2730	2730/2850

UNIVERSAL CYLINDRICAL GRINDING MACHINE

Model	GW-200C GM-200C GB-200C	UGW-200C UGM-200C UGB-200C
Specification	500 750	500 750
Center height (mm)	125	125
Max. length of workpiece between centers(mm)	520 770	520 770
Max. grinding length(mm)	500 750	500 750
External grinding range(mm)	Φ8~200	Φ8~200
Internal grinding range(mm)	-	Φ13~100
Max. workpiece weight(kg)	60	60
Swivel range of worktable	-5°~+9° -3°~+9°	-5°~+9° -3°~+9°
External wheel size(mm)	400×40×203	400×40×203
Max. peripheral speed of grinding wheel(m/s)	38	38
Head frame and tailstock taper	Morse4 or Morse3	Morse4 or Morse3
Total power(kw)	5.1	5.1
Gross/Net weight (kg)	2800/2300 3100/2600	2800/2300 3100/2600
Packing dimension(L×W×H)mm	2200(2700)×1600×1800	2200(2700)×1600×1800



- Stable running without noise can be achieved because of dopting screw pump in hydraulic system;
- High rotating precision and strong rigidity can be obtained by sleeve-typewhole-tile moving hydraulic bare shaft system on the spindle of wheel head;
- Slide way is covered by the plastic so it can gain slow speed running and high immunity to vibration;
- The machine has high precision, reasonable integral layout, beautiful shape;
- Centralized and imaginary operating lever are easy and safe for operating.



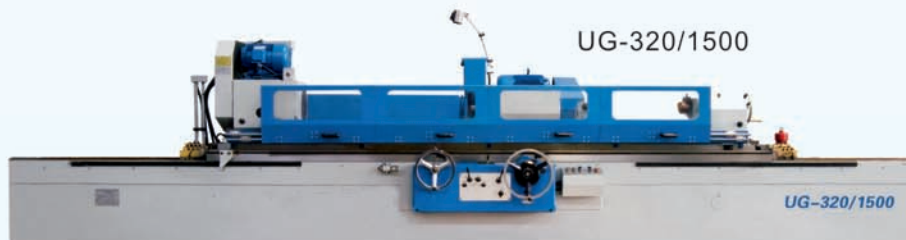
Model	GG-200E	GG-320E	UGG-200E	UGG-320E
Specifications	500,750,1000	500,750,1000	500,750,1000	500,750,1000
Center height(mm)	125	180	125	180
Max.length of workpiece between centers(mm)	520,765,1080	520,765,1080	520,765,1080	520,765,1080
Max.workpiece diameter for external(mm)	240	350	240	350
Max.grinding length(mm)	500,750,1000	500,750,1000	500,750,1000	500,750,1000
External grinding range(mm)	5~200	5~320	5~200	5~320
Internal grinding range(mm)	—	—	13~80	16~125
Depth of internal grinding (bigger than φ 45mm)(mm)	—	—	110	140
Max.weight of workpiece between centers(kg)	50	100	50	100
Grinding wheel	Dimensions(mm)	400×(32~50)×203		
	Max.linearvelocity	35 m/sec		
Swivelling angle of table	Clockwise	9° 8' 3"	9° 8' 3"	9° 8' 3"
	Counter-clockwise	9° 8' 7"	9° 8' 7"	9° 8' 7"
Taper hole of spindle(Morse)	Workhead	Morse 4#		
	Tailstocd	Morse 3#		
Total power(kw)	4.775	4.775	5.325	5.525
Net weight(kg)	2500,3000,3500	2500,3000,3500	2500,3000,3500	2500,3000,3500
Overall dimensions	L(mm)	2750,2870,3700	2750,2870,3700	2750,2870,3700
	W(mm)	2000		
	H(mm)	2100		

UNIVERSAL CYLINDRICAL GRINDING MACHINE

G-500/1500



UG-320/1500

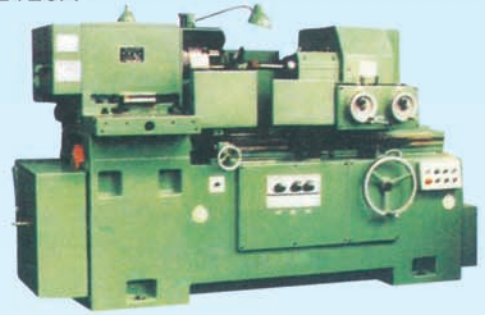


Model	Unit	G-200	UG-200	G-320	UG-320	G-500	UG-500	G-630	G-800	
General capacity										
Distance between centers	mm	500/750	500/750	1000/1500/2000/3000	1000/1500/2000/3000	1500/2000/3000	1500/2000/3000	3000/4000/5000	3000/4000/5000	
Center height	mm	135	135	180	180	270	270	335	500	
Dia. Ground (O.D)	mm	5-200	5-200	8-320	8-320	25-500	25-500	30-630	50-800	
Dia. Ground (I.D)	mm	-	25-100	-	30-100	-	30-200	-	-	
Max. length ground (O.D)	mm	500/750	500/750		1000/1500/2000/3000	1500/2000/3000	1500/2000/3000	3000/4000/5000	3000/4000/5000	
Max. length ground (I.D)	mm	-	100	1000/1500/2000/3000	125		320			
Max weight of work piece	Kg	-	100	-	150	1000	1000	3000	5000	
Workhead										
Swiveling angle	°	-	+90°	-	+90°		+90°			
Center taper (MT)	MT	4	4	5	4	6	6	(metric)80#	(metric)100#	
Spindle speed	r/min	50HZ:25-380	50HZ:25-380	26,52,90,130,180,260	50HZ:25-220	50HZ:18-140	50HZ:20-224	50HZ:8-150	50HZ:6-80	
Wheel head										
Wheel spindle speed	rpm	1335	1670	110	1670	870	1330/665	740	740	
Wheelhead rapid travel	mm	50	50	50	50	100	100	100	100	
Max. travel	mm	205	205	235	246	437.5	370	475	550	
Swiveling angle	°	-	±30°	-	±30°	-	-30°	-	-	
Wheel size (ODxWxD)	mm	500x50x203	400x50x203	600x63x305	400x50x203	750x75x305	500x75x305	900x75x305	900x75x305	
Peripheral speed	m/s		35	35	35	35	35/17.5	35	35	
Internal grinding device		35								
Spindle speed	r/min	-	10000	-	10000	-	7000	-	-	
Wheel size	mm	-	Max:35x25x10, Min:17x20x6	-	Max:50x25x13, Min:17x20x6	-	Max:175x32x32, Min:30x25x10	-	-	
Table										
Hand feed per. rev	mm	6	6	6	6	6	5	5	5	
Max. swiveling angle	clockwise	°	3°	3°	3° (1000/1500)/2° (2000/3000)			2° (3000)/1° (4000/5000)		
	anticlockwise	°	9° (500)/8° (750)		7° (1000)/6° (1500)/5° (2000)/3° (3000)			3° (3000) 2° (4000, 5000)		
Longitudinal feed speed	m/min	0.1-4	0.1-4	0.1-4	0.1-4	0.1-3	0.1-3	0.1-4	0.1-4	
Tailstock										
Center tape (MT)	MT	4	4	4	4	6	6	(metric)80#	(metric)100#	
Quill travel	mm	30	30	30	30	70	70	100	100	
Motor										
Wheelhead motor power	kw	5.5	4	11	5.5	15	5/7.5	18.5	18.5	
Internal grinding	kw	-	1.1	-	1.1	-	1.5	-	-	
Workhead motor power	kw	0.75	0.75	0.75/1.5	1.5	2.2/3.6	4	5	10	
Machine										
Gross weight	T	4/4.2	4.1/4.3	5.3/6.1/7.9/9.9		11.2/13/17.4		25/28/30	28/31/35	
Packing dimension	cm	260/300x 203x205	260/300x 203x205	322/422/540/739x200x205		540/610/810x228x210		880x280x210		

INTERNAL CYLINDRICAL GRINDING MACHINE

Model	Dia.to be ground(mm)	Length to be ground(mm)	Workpiece Max. radius of rotation(mm)	Working accuracy(μm)			Total power (kw)	Weight (kg)
				Roundness	Cylindricity	Roughness		
G215A	3~50	80	180/220	3	3	0.63	5.39	1200
GD215A	3~50	80	180/220	3	3	0.63	6.14	1300
GB215A	3~50	80	150/250	3	3	0.63	5.39	2000
GBD215A	3~50	80	150/250	3	3	0.63	6.14	2500
GB215B	3~50	50	100/240	3	3	0.63	6.5	2500
GK215	3~50	80	100/240	1	2	0.40	20	2500
G2110C	6~100	150	260/480	3	5	0.63	4.14	1600
GBD2110B	15~100	125	315	3	5	0.63	7.5	5000
GBND2110	15~100	125	240/400	3	5	0.63	7.5	5000
GGD2110B	10~100	125	260/480	1	2	0.08	7.5	3500
G2110/CNC	15~00	125	400	3	3	0.63	7.5	4000
GK2110	15~100	125	400	2	3	0.40	25	4000
GK2115	15~150	100	400/500	3	4	0.40	25	4500
G2116/CNC	30~160	160	400/600	3	4	0.40	25	5000
G2120A	50~200	200	400/530	3	8	0.63	9.2	3400
GD2120A	50~200	200	400/600	3	8	0.63	9.5	3500
GB2120	50~200	150	400/600	3	5	0.63	9	3500
GGD2120B	50~200	200	400/600	1.5	3	0.16	9	4000
GK2120B	30~200	200	400/600	2	4	0.40	25	5000
G250A	150~500	450	510/725	5	8	0.63	8.92	4500
GK2150	150~500	450	510/725	3	5	0.40	20	4500

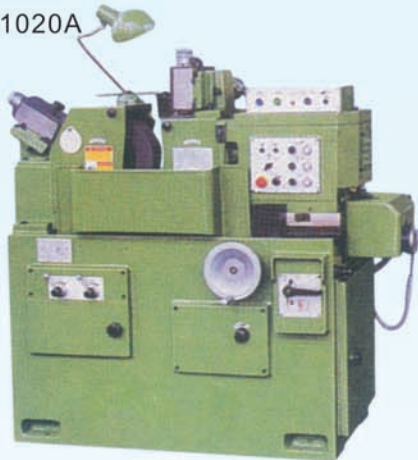
G2120A



GGD2120B



G1020A



GT1040A



CENTERLESS GRINDING MACHINE

Model	Dia.to be ground(mm)	Length to be ground(mm)	Working accuracy(μm)			Total power (kw)	Weight (kg)
			Roundness	Cylindricity	Roughness		
G1020A	0.5~20/3~20	80/80	2	2	0.32	5.3	1900
GG1020	0.5~20/3~20	80/80	1	1.2	0.16	5.57	2000
GT1040A	2~40/7~40	140/120	2	3	0.32	8.83	2000
G1040S	2~40/7~40	140/120	2	3	0.32	9.23	2000
G1050A	5~50/7~50	120	2	3	0.32	13.78	2800
GG1050B	5~50	200/145	1	1.5	0.16	16.83	5000
GGT1050	2~50	200	1	1.8	0.16	11.59	5000
GK1050	2~50/5~50	195	0.6	1	0.20	25	5000
G1080D	5~80	180/145	2	3	0.32	16.68	3500
G1080	5~80	200/145	2	3	0.32	17.55	5000
GKS1080	5~80	200/145	2	3	0.32	17.55	5000
G10100	10~100	210/195	2	3	0.32	20.16	5000
G10100B	10~100	210/195	2/3	3/5	0.32	20.96	5000
GS10100	10~100	240	2	3	0.32	36.66	7500
GKS10100	10~100	240	2	3	0.32	36.6	7500
GG10100	10~100	195	1	2	0.16	23.21	7000
GW10200	10~200	300/290	2	4	0.32	47	10000
GW10200/3	10~200	300/290	2	4	0.32	42.67	10000
GGW10200	10~200	300/290	1	2.5	0.16	43.38	10000
GGW10200/2	10~200	300/290	1	2.5	0.16	35.37	10000
G11100A	10~100	400/390	2/3	5	0.32	25.67	10000
G11100B	10~100	400/390	2	5	0.32	45	10000
G11150	10~150	400/390	2	5	0.32	36.48	10000
G11150A	10~150	500/490	2	5	0.32	45	10000
GK11150	10~150	400/390	2	4	0.32	45	10000
G11200/2	50~200	600/590	3	5	0.32	41.47	10000
G11200/3	50~200	600/590	3	5	0.32	41.38	10000
G10300	50~300	500/480	3	5	0.32	44	12000
GK10300	50~300	500/480	3	5	0.32	62	12000
GT10400	50~400	500	5	8	0.32	75	18000
GZT10400	50~400	500	5	8	0.32	70	18000

MULTI-USE GRINDING MACHINE

2M9120A



Model	2M9120A	2MA9125
Max. swing over table	200mm	250mm
Max. workpiece length	500mm	500mm
Size for surface grinding	300x125mm	300x125mm
Size for cutter grinding	200x500mm	200x500mm
Max. weight of workpiece	10kgs	10kgs
Workhead spindle speeds	100, 200, 300 rpm	60, 90, 120, 125, 235, 345 rpm
Workhead swivel	+ 90°	+ 90°
Max. traverse of the wheelhead slide vertical/cross	200/200mm	250/200mm
Wheelhead spindle speed	2500rpm	2500rpm
Wheelhead vertical move speed	-	280mm/min
Internal grinding spindle speed	13500rpm	13500rpm
Longitudinal table travel, hand control	500mm	500mm
Table traverse speed	< 7m/min	< 7m/min
Max. swivel of table	-30° ~ +45°	-30° ~ +45°
Total power	2.905kw	2.995kw
Overall dimension(L x W x H)	1520x1133x1173mm	1520x1220x1360mm
Packing size(L x W x H)	1900x1400x1630mm	1900x1400x1630mm
G.W/N.W	1700/1285kg	1780/1380kg



EXTERNAL GRINDING



INTERNAL GRINDING



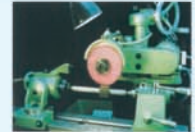
SURFACE GRINDING



SHARPENING END MILLING CUTTER



SHARPENING SAW BLADE CUTTER



SHARPENING STRAIGHT SLOT HOBBER

UNIVERSAL TOOL GRINDING MACHINE

Model	MA6025	MAY6025
Distance between workhead and tailstock centers	545mm	545mm
Distance between lifhand tailstock and righthand tailstock centers	650mm	650mm
Max. workpiece diameter	250mm	250mm
Height of centers	130mm	130mm
Max. length for cylindrical grinding	270mm	270mm
Worktable travel by hand	400mm	400mm
Worktable travel by hydraulic	-	400mm
Swivel range of table to either side	+45°	+45°
Vertical/cross slide travel	230/250mm	230/250mm
Vertical movement speed of wheelhand by power	280mm/min	280mm/min
Max. Min. distance between table surface and grinding spindle	298/48mm	298/48mm
Horizontal swivel range of wheelhead	360°	360°
Grinding spindle inclinable	+ 15°	+ 15°
Grinding spindle speed	2700. 4000. 5500rpm	2700. 4000. 5500rpm
Total power	3.15kw	3.15kw
Overall dimension(L x W x H)	1332x1318x1314mm	1332x1318x1314mm
Paclcing size(L x W x H)	1790x1520x1640mm	1790x1520x1640mm
G.W/N.W	1250/1100kgs	1300/1150kgs

MAY6025



SHARPENING DRILL



SHARPENING END MILLING CUTTER



SHARPENING SAW BLADE CUTTER



SHARPENING BALLHEAD MILLING CUTTER



SPIRAL GRINDING



EXTERNAL GRINDING



SHARPENING CONE REAMER

CRANKSHAFT GRINDING MACHINE



STANDARD ACCESSORIES:

- * Jaw chuck 2sets
- * Wheel dresser 1set
- * Steady rest (W.30mm)1set
- * Wheel balancing arbor 1set
- * Levelling wedge 11set
- * Wheel adaptor 1set
- * Driving dog 1 set
- * Vertical aligning stand(width 28mm)1set
- * Horizontal aligning stand (width 28mm)1set

Model	QM-600A	QM-600A×18	QM-600A×20	QM-630A	QM-600C	QM-400A	QM-600
Max. work swing dia. × Max. length(mm)	φ580×1600	φ580×1800	φ580×2000	φ630×1800	φ600×1600	φ400×750	φ580×750
Max. swing over table(mm)	580	580	580	630	600	400	580
Work diameter ground with steady rest (mm)	φ30~φ100	φ30~φ100	φ50~φ120	φ50~φ120	φ30~φ100	φ20~φ110	φ50~φ120
Throw of crankshaft (mm)	110	110	120	120	110	60	110
Max. work length ground: in3-jaw chuck (mm)	1400	1600	1800	1600	1400	630	1400
between centers(mm)	1600	1800	2000	1800	1600	750	1600
Max. work weight (kg)	120	120	150	150	120	30	150
Center height (mm)	300	300	300	315	300	200	300
Work speed (r/min)	25,45,95	25,45,95	30,45,65,100	30,45,65,100	25,45,85	40,80	30,45,65,100
Max. cross movement (mm)	185	185	185	185	185	150	185
Wheelhead rapid approach & withdrawal (mm)	100	100	100	100	100	100	100
per grad of cross feed handwheel (mm)	1	1	1	1	1	1	1
Wheel feed per turn of cross feed handwheel (mm)	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Wheel spindle speed (r/min)	740,890	740,890	740,890	740,890	740,890	890	740,890
Wheel peripheral speed (m/sec)	25.6~35	25.6~35	25.6~35	25.6~35	25.6~35	35	25.6~35
Wheel size (mm)	φ900×32×φ305	φ900×32×φ305	φ900×32×φ305	φ900×32×φ305	φ900×32×φ305	φ900×32×φ305	φ900×32×φ305
Table travel per turn of handwheel coarse (mm)	5.88	5.88	5.88	5.88	5.88	14	5.88
fine (mm)	1.68	1.68	1.68	1.68	1.68	1.55	1.55
Table swivel(taper 18/100)	5°	5°	5°	5°			5°
Table swivel per grad of scale (taper 1:50)	10'	10'	10'	10'			10'
Overall capacity of motors (kw)	9.82	9.82	11.12	11.12	9.82	6.92	10.92
Overall dimensions (L × W × H) (mm)	4166×2037×1584	4166×2037×1584	4166×2037×1584	4166×2037×1584	4166×2037×1584	2860×1960×1650	4166×2037×1584
Weight (kg)	6000	6200	7000	6500	6000	4800	6500
Ovality(new standard) (mm)	0.005	0.005	0.005	0.005	0.005	0.0025	0.005
Cylindricity (mm)	0.01	0.01	0.01	0.01	0.01	0.005	0.01
Roughness Ra (μm)	0.32	0.32	0.32	0.32	0.32	0.32	0.32

SHAPING MACHINE

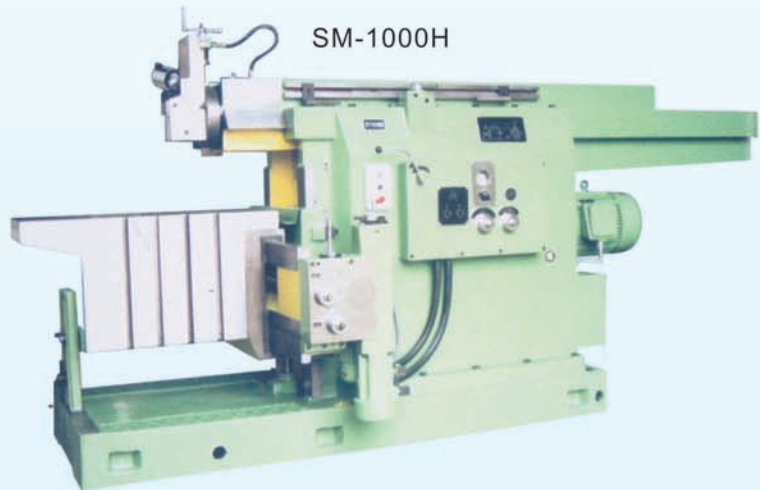
SM-630



- The main cutting motion of the machine is linear motion being converted from circular motion of gears by link block mechanism;
- With smooth transmission, short over run and less consume of power, the machine is easy to start and stop;
- If being provided with a tool lifter, the machine table can obtain rapid motion in vertical and horizontal direction;
- The machine, with pleasing appearance and stable accuracy, can be operated and maintained conveniently.

SM-1000H

- Hydraulic shaping machine;
- The table can travel both vertically and horizontally;
- Tool lifter;
- Rapid movement of table.



Model	Unit	SM-350	SM-500	SM-630	SM-660	SM-700	SM-1000	SM-1000H	
Max. planing length	mm	350	500	630	660	700	1000	1000	
Max. distance between ram bottom and worktable surface	mm	330	370	385	385	420	420	400	
Max. horizontal travel distance of worktable	mm	400	500	630	630	630	800	800	
Max. vertical travel distance of worktable	mm	270	300	360	360	320	380	320	
Worktable size	mm	345 × 296	480 × 360	630 × 400	660 × 400	700 × 420	1000 × 500	1000 × 500	
Travel of tool head	mm	110	110	120	120	125	160	160	
Number of ram strokes/min	mm	32,50 80,125	15,24,37,51,64,64, 80,102,126,158	14,20,28 40,56,80	14,20,28 40,56,80	14,20,28 40,56,80	15,20,29, 42,58,83	3-44 stepless	
Range of table power speed	Horizontal	mm	0.21-0.84 4steps	0.133-1.33 10steps	0.2-2.5 12steps	0.2-2.5 12steps	0.2-2.5 12steps	0.3-3 12steps	0.25-5 stepless
	Vertical	mm	0.18-0.73 4steps	0.0845-0.845 10steps	0.08-1.00 12steps	0.08-1.00 12steps	0.08-1.00 12steps	0.15-0.5 12steps	0.02-0.25 stepless
Speed of table rapid traverse	Horizontal	m/min				0.75	3	3	
	Vertical	m/min				0.34	0.5	0.15	
T-slot width	mm	14	18	18	18	18	22	22	
Main motor power	kw	1.5	3	3	3	4	7.5	7.5	
N.W/G.W	kg	1000/1200	1800/2000	1750/1950	1870/2070	2700/2900	4970/5170	4600/4800	

SLOTING MACHINE



B-200/B-320



B-200D/B-320D

Model	B-200	B-200D	B-320	B-320D
Max. slotting length	200mm	200mm	320mm	320mm
Max. dimensions of work piece(L x H)	485 x 200mm	485x200mm	600 x 320mm	600x320mm
Max. weight of work piece	400kg	400kg	500kg	500kg
Max. cutting force	5500N	5500N	7500N	7500N
No. of strokes per minute	32,50,80,125,r.p.m	32,50,80,125,r ,p,m	20.32.50.80.r.p.m	20.32.50.80 r.p.m
Vertical adjustment of ram	230mm	230mm	315mm	315mm
Inclination of ram	0-8°	0-8°	0-8°	0-8°
Distance between tool holding surface and column front	485mm	485mm	600mm	600mm
Max. tool shank size (W x H)	25 x 40mm	25 x 40mm	25 x 40mm	25x40mm
Table diameter	500mm	500mm	630mm	630mm
Distance between table surface and low end of ram	320mm	320mm	490mm	490mm
Max. longitudinal travel of table	500mm	400/450mm	620mm	480/620mm
Max. cross travel of table	500mm	450/500mm	560mm	480/560mm
Max. Rotary angle of table	± 360°	± 360°	± 360°	± 360°
Range of table longitudinal and cross power feeds	0.08-1.12mm	0.08-1.21mm	0.08-1.12mm	0.08-1.21mm
Range of table power feeds	0.052-0.783deg	0.052-0.783deg	0.052-0.7893deg	0.052-0.783deg
Power of main drive motor	3kw	3kw	4kw	4kw
Rotating speed of main drive motor	1430r.p.m	1430r.p.m	960r.p.m	960r.p.m
Power of rapid feed drive motor	-	0.75kw	-	0.75kw
Rotating speed of rapid feed drive motor	-	910r.p.m	-	910r.p.m
Overall dimensions (L x W x H)	1945 x 1325 x 1980mm	1835x1305x1980mm	2290 x 1525 x 2285mm	2180x1505x2285mm
Weight(approx)	2400kg	2400kg	3500kg	3500kg

HACK SAWING MACHINE

HS7132/HS7140/HS7150



HS7125



HS7025B



- It has different speeds and a wide cutting scope;
- It has a high-efficiency arc-push saw which is one and a half times more efficient than that of normal sawing machines;
- It has a new style V-shaped transmission belt which is very quiet(no louder than 74db);
- Its main electrical components are installed inside, thus giving it an elegant outer appearance and rendering it extremely safe;
- Automatic cutting process except gripping device and feeding mechanism, with protective system;
- Hydraulic transmission simple running Easy upkeep.

Model		HS7025B	HS7125	HS7132	HS7140	HS7150
Cutting capacity	Round bar(mm)	250	250	320	400	500
	Square bar(mm)	220 × 220	220 × 220	290 × 290	330 × 330	400 × 400
	Oblique saw	45°	45°	45°	45°	45°
Blade size(mm)		450 × 40 × 2.5	450 × 40 × 2.25	600 × 50 × 2.5	650 × 55 × 2.5	750 × 63 × 2.5
Sawing speed (time/min)		75;90;108	43;50;60;86;100;120	34;60;84	34;60;84	34;60;84
Motor power(kw)		2.24	3.22	3.44	4.34	4.34
Net weight(kg)		600	600	1100	1200	1450

METAL CUTTING BAND SAW

S-100



S-115A



S-128DR



S-128HDR



S-712N



S-712R



S-712GR



S-712GDR



Model		S-100	S-115/S-115A	S-128DR/S-128HDR	S-712N	S-712R	S-712GR	S-712GDR
Max. Capacity	Circular@90°	100mm	115mm	128mm	178mm	178mm	178mm	178mm
	Rectangular@90°	100 x 150mm	100x150mm	128 x 150mm	178x305mm	178 x 210mm	178 x 210mm	178x210mm
	Circular@45°	60mm	100mm	95mm	127mm	127mm	127mm	127mm
	Rectangular@45°	60 x 100mm	60x100mm	75 x 95mm	120x125mm	85x 140mm	85x 140mm	85x140mm
Blade speed	@60HZ	54 MPM(177FPM)	24,37,67MPM	24, 47, 61 MPM	27, 41, 59, 78MPM	27, 41, 59, 78 MPM	34, 70, 104 MPM	34,70,104MPM
	@50HZ	45 MPM(148FPM)	80,120,220MPM	20, 29, 50 MPM	22, 34, 49, 64MPM	22, 34, 49, 64 MPM	29, 59, 87 MPM	29,59,87 MPM
Blade size		13 x 0.65 x 1470mm	12.7x0.64x1683mm	12.7x0.64 x 1638mm	19.05x0.8x2362mm	19.05x0.8x2362mm	19.05 x 0.8 x 2362mm	20x0.9x2362mm
Motor		375w	375w	375w	750w	750w	750w	750w
Drive		Gearbox	V-Belt	V-Belt	V-Belt	V-Belt	Gearbox	Gearbox
Packing size (L x W x H)		55 x 37 x 40cm	96x45x46cm	980 x 750 x 640mm	125x45 x 115cm	132 x 77 x 115cm	132 x 77 x 115cm	132x77x130cm
N.W. / G.W.		23/26kg	61/64kg	110/140kg	180/227kg	190/240kg	210/260kg	210/260kg

S-912B



S-912GR



S-916V



S-1018B



S-1018R



Model		S-912B	S-912GR/S-912GDR	S-916B	S-916V	S-1018B	S-1018R
Max. Capacity	Circular@ 90°	229mm	229mm	229mm	229mm	254mm	254mm
	Rectangular@ 90 °	178x305mm	178x305mm	127x405mm	127x406mm	127x457mm	160x406mm
	Circular@ 45°	150mm	150mm	150mm	150mm	150mm	170mm
	Rectangular@ 45°	127x150mm	127x150mm	150x190mm	150x190mm	150x190mm	160x190mm
Blade speed	@60HZ	32,60,88,115MPM	38,78, 115 MPM	32,60,88,115 MPM	22- 122 MPM	35,60,88,115 MPM	35,60,88,115 MPM
	@50HZ	26,50,73,95MPM	31, 65,95 MPM	26,50,73,95 MPM	18-102 MPM	26,50,73,95 MPM	26,50,73,95MPM
Blade size		27x0.9x2655mm	27x0.9x2655mm	27x0.9x3090mm	27x0.9x3090mm	27x0.9x3276mm	27x0.9x3215mm
Motor		735w	1.1kw	1.1kw	1.1kw	1.5kw	1.5kw
Drive		V-belt	Gearbox	V-belt	V-belt	V-belt	V-belt
Packing size (L x W x H)		160x60x1150cm	160x60x130cm	176x83x115cm	176x83x115cm	183x83x115cm	180x77x115cm
N.W. / G.W.		200/248kg	220/270kg	290/348kg	300/348kg	310/385kg	300/360kg

METAL CUTTING BAND SAW

S-170G



S-180G



S-215G



S-260G



S-280G



S-315G



S-315GH



S-460G



Model	S-170G	S-180G	S-215G	S-260G	S-280G	S-315G	S-315GH	S-460G	
Max. capacity	Circular@90°	170mm	180mm	150mm	227mm	220mm	230mm	230mm	330mm
	Rectangular@90°	170x210mm	180x260mm	200x120mm	260x110mm	250x155mm	315x170mm	315x170mm	460x250mm
	Circular@45°	120mm	105mm	120mm	150mm	160mm	210mm	210mm	305mm
	Rectangular@45°	110x110mm	120x105mm	130x90mm	200x125mm	160x110mm	210x170mm	210x170mm	305x250mm
	Circular@60°	70mm			90mm	100mm	130mm	130mm	205mm
	Rectangular@60°	60x60mm			85x85mm	80x95mm	130x130mm	130x105mm	205x250mm
Blade speed @50HZ	2P80MPM(262FPM) 4P40MPM(131FPM)	39,66,82MPM	40/80MPM	2P72MPM(236FPM) 4P36MPM(118FPM)	40/80MPM	48/96MPM	48/96MPM	48/96MPM	48/96MPM
Blade size	20x0.9x2085mm	19.05x0.8x2362mm	20x0.9x2060mm	27x0.9x2455mm	27x0.9x2450mm	27x0.9x2825mm	27x0.9x2825mm	27x0.9x3960mm	
Motor	0.75kw	0.75kw	0.6/0.8kw	1kw	0.75/1.1kw	0.75/1.1kw	0.75/1.1kw	1.5/2.2kw	
Drive	Gearbox	Gearbox	Gearbox	Gearbox	Gearbox	Gearbox	Gearbox	Gearbox	
Packing size (L x W x H)	125x72x100cm	130x57x112cm	116x71x79cm, 61x39x67cm	146x72x110cm	135x82x95cm, 65x39x61cm	163x87x97cm, 72x56x60cm	163x90x153cm	231x107x163cm	
N.W. / G.W.	200/240kg	180/210kg	212/245kg	260/300kg	254/287kg	350/390kg	380/420kg	750/830kg	

METAL CUTTING CIRCULAR SAW

SC-250



SC-315



SC-350A



Model	SC-250	SC-275	SC-315	SC-350	SC-300A	SC-350A
Max. blade size	250mm	275mm	315mm	350mm	300mm	350mm
Max. capacity	Circular@90°	70mm	80mm	100mm(4")	120mm	120mm
	Rectangular@90°	55x95mm	100x70mm	140x90mm(5.5"x3.5")	140x100mm	140x90mm
	Circular@45°	65mm	80mm	90mm	105mm	105mm
	Rectangular@45°	55x65mm	80x70mm	100x90mm	100x100mm	90x100mm
Blade speed @50HZ	52/104rpm	40/80rpm	18/36rpm	18/36rpm	5400giri/min	4300giri/min
Motor	0.95/1.32kw	1.1/1.5kw	0.75kw	0.75kw	4kw	5.5kw
Drive	Gearbox	Gearbox	Gearbox	Gearbox	V-Belt	V-Belt
Vise opening	100mm	105mm	145mm(5.7")	145mm	190	190
Packing size (L x W x H)	80X83X76cm	80X90X103cm	98x62x90cm (77x57x47cm stand)	98 x 62 x 95cm (77 x 57 x 47cm stand)	87X57X86cm (77X57X47cm stand)	98X62X90cm (77X57X47cm stand)
N.W./G.W.	143/171kg	148/174kg	185/207kg	190/212kg	105/115kg	135/145kg

HORIZONTAL METAL BAND SAWING MACHINE

GB-250A



* Manual clamping

GB-250B



* Hydraulic clamping

GB-250C
GB-280
GB-250/500



* Hydraulic clamping
* Semi-automatic feeding

Model	Unit	GB-250A	GB-250B	GB-250C	GB-280	GB-250/500
Max. cutting size	mm	○250 □200×250	○250 □200×250	○250 □200×250	○280 □220×280	○250 □200×500
Blade size	mm	3505×27×0.9	3505×27×0.9	3505×27×0.9	3505×27×0.9	3820×34×1.1
Sawing speed	m/min	25,45,65	25,45,65	25,45,65	25,45,65	25,45,65
Main motor	kw	2.5	2.5	2.5	2.5	3.5
Packing dimension (L x W x H)	mm	2100x1100x1300	2100x1100x1300	2100x1100x1300	2100x1100x1400	2300x1100x1300
Net weight	kg	800	830	850	900	1200

GB-300



* Hydraulic clamping
* Semi-automatic feeding

GB-320
GB-350
GB-400



* Hydraulic clamping
* Semi-automatic feeding

GB-300/400
GB-400/600



* Hydraulic clamping
* Semi-automatic feeding

Model	Unit	GB-300	GB-320	GB-350	GB-400	GB-300/400	GB400/600
Max. cutting size	mm	○300 □220×300	○320 □240×320	○320 □280×350	○400 □320×400	○300 □320×400	○400 □320×600
Blade size	mm	3505×27×0.9	4115×34×1.1	4115×34×1.1	4115×34×1.1	3660×27×0.9	4570×34×1.1
Sawing speed	m/min	25,45,65	25,45,65	25,45,65	25,45,65	25,45,65	25,45,65
Main motor	kw	2.5	3.3	3.3	4	2.5	4.9
Packing dimension (L x W x H)	mm	2100x1100x1400	2300x1300x1450	2300x1250x1450	2300x1250x1450	2300x1100x1400	2530x1250x1450
Net weight	kg	950	1350	1450	1500	1050	1780

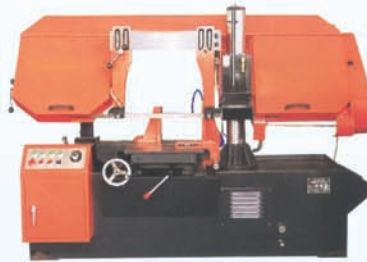
HORIZONTAL METAL BAND SAWING MACHINE

GBS-250
GBS-300/400



- * Double column
- * Hydraulic clamping
- * Semi-automatic feeding

GBS-400



- * Double column
- * Hydraulic clamping
- * Semi-automatic feeding

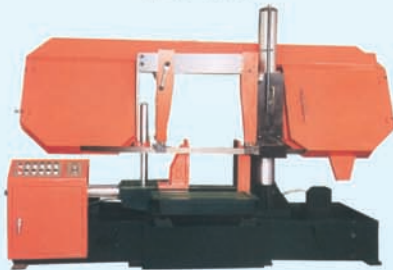
GBS-500



- * Double column
- * Hydraulic clamping
- * Semi-automatic feeding

Model	Unit	GBS-250	GBS-300/400	GBS-400	GBS-500	GBS-650	GBS-800
Max. cutting size	mm	○250 □250x250	○300 □300x400	○400 □400x400	○500 □500x500	○650 □650x650	○800 □800x800
Blade size	mm	3660x27x0.9	3820x34x1.1	4570x34x1.1	5700x41x1.3	6800x54x1.6	7940x54x1.6
Sawing speed	m/min	25,45,65	25,45,65	25,45,65	25,45,65	25,45,65	variable speed
Main motor	kw	2.5	3.3	4.6	7.4	8.2	10.5
Packing dimension (L x W x H)	mm	2100x1100x1300	2100x1100x1400	2530x1250x1650	2850x1350x2100	3200x1450x2300	3900x1800x2550
Net weight	kg	1000	1150	1860	4200	5200	8500

GBS-650



- * Double column
- * Hydraulic clamping
- * Semi-automatic feeding

GZ-250
GZ-300/400



- * Double column
- * Hydraulic clamping
- * Full automatic feeding

GZ-400
GZ-500



- * Double column
- * Hydraulic clamping
- * Full automatic feeding

Model	Unit	GBS-1000	GBS-1000/1300	GZ-250	GZ-300/400	GZ-400	GZ-500
Max. cutting size	mm	○1000 □1000x1000	○1000 □1000x1300	○250 □250x250	○300 □300x400	○400 □400x400	○500 □500x500
Blade size	mm	10680x67x1.6	11280x67x1.6	3660x27x0.9	3820x34x1.1	4800x34x1.1	6000x41x1.3
Sawing speed	m/min	variable speed	variable speed	20,50,80	20,50,80	25,45,65	25,45,65
Main motor	kw	14.1	16.5	3.3	4	5.7	7.5
Packing dimension (L x W x H)	mm	5500x2020x3200	5800x2020x3200	2100x1100x1800	2100x1100x1900	2530x1550x1650	3400x1900x2000
Net weight	kg	15000	16500	1500	1650	2500	4800
Automatic feed length per time	mm	-	-	0~300	0~300	0~400	0~500

CNC TURRET PUNCHING MACHINE

- MP10 series CNC turret punch is of enclosure structure, which receives tempering treatment.
- German H+L hydraulic system enjoys reliable performance and low power consumption (11kW).
- CNC system FANUC 0i P or SIEMENS 840D is used on this series punch.
- The turret features long sleeve structure and the index station has sectional wheel and worm mechanism.
- This series punch consists of international pneumatic and electrical components, imported long travel ball screws, the linear guide way, worktable with brush, and steel balls auto central lubrication device and auto floating clamps.

MP8-30



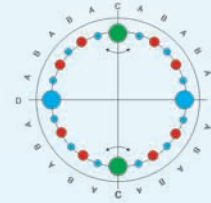
TURRET LAYOUT :

Station types	32station	24station	Dimension range
A	16	12	φ 3- φ 12.7mm
B	12	8	φ 12.7- φ 31.75mm
C	2	2	φ 31.75- φ 50.8mm
D	2	2	φ 50.8- φ 88.9mm

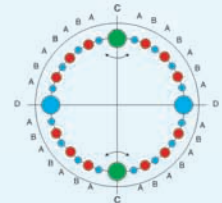
MP10-30



Rotation station:C



24 station tooling layout



32 station tooling layout

Model	Unit	MP7-30Mechanical		MP8-30Hydraulic		MP10-30 Hydraulic				A30 Hydraulic		MP10-40 Hydraulic			MP10-50 Hydraulic		
Nominal force	KN	300	300	300	300	300	300	300	300	300	300	400	400	400	500	500	500
Workpiece size	mm	1250x2500	1250x4000	1250x2500	1250x4000	1250x2500	1250x4000	1250x5000	1500x5000	1250x2500	1250x4000	1250x2500	1250x4000	1500x5000	1250x2500	1250x4000	1500x5000
Max.Workpiece weight	kg	156	156	156	156	156	156	210	235	156	156	156	156	235	235	235	350
Max.Workpiece moving speed	m/min	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
Max.Workpiece thickness	mm	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	8	8	8
Max.punching diameter	mm	Φ88.9	Φ88.9	Φ88.9	Φ88.9	Φ88.9	Φ88.9	Φ88.9	Φ88.9	Φ88.9	Φ88.9	Φ88.9	Φ88.9	Φ88.9	Φ88.9	Φ88.9	Φ88.9
Station number	pc	32/※24	32/※24	32/※24	32/※24	32/※24	32/※24	32/※24	32/※24	32/※24	32/※24	32/※24	32/※24	32/※24	32/※24	32/※24	32/※24
Working accuracy	mm	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1
Punching frequency	hpm	270	270	450/※600	450/※600	600/※450	600/※450	600/※450	600/※450	1000	1000	450	450	450	300	300	300
Frame construction		C-type double-frame	C-type double-frame	C-type double-frame	C-type double-frame	O-type	O-type	O-type	O-type	O-type	O-type	O-type	O-type	O-type	O-type	O-type	O-type
Controlling axes	pc	4/※3	4/※3	4/※3	4/※3	4/※3	4/※3	4/※3	4/※3	4/※3	4/※3	4/※3	4/※3	4/※3	4/※3	4/※3	4/※3
Rotation station:Max punching diameter	mm	Φ 50.8	Φ 50.8	Φ 50.8	Φ 50.8	Φ 50.8	Φ 50.8	Φ 50.8	Φ 50.8	Φ 50.8	Φ 50.8	Φ 50.8	Φ 50.8	Φ 50.8	Φ 50.8	Φ 50.8	Φ 50.8
Air pressure	Mpa	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Machine weight	Ton	14	14.5	14.5	15	19.5	20	20.5	22	20	20	20	21	23	22	23	25
Machine dimension	mm	5340	5340	5340	5340	5400	5400	5400	6100	5400	5400	5400	5400	6100	5400	5400	6100
		2700	4200	2700	2700	2700	4200	4200	4200	2700	4200	2700	4200	4200	2700	4200	4200
		2150	2150	2150	2150	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200

※ Optional

POWER PRESS MACHINE



J23-16



J23-40



J21-40

TYPE		OPEN TYPE INCLINABLE PRESS										OPEN TYPE FIXED-TABLE PRESS								
Model	Unit	J23-63	J23-10	J23-16	J23-16A	J23-20	J23-25A	J23-35	J23-40	J23-63	J23-80	J21-25	J21-40	J21-63	J21-80	J21-100	J21-125	J21-165	J21-200	
Nominal Pressure	KN	63	100	160	160	200	250	350	400	630	800	250	400	630	800	1000	1250	1650	2000	
Nominal Pressure Stroke	mm	1.5	2	2	2	2	2.5	3	4	4	5	2	4	4	5	5	5	6	6	
Stroke of Slide	mm	35	60	70	90	90	90	100	100	120	120	80	100	120	130	140	150	160	180	
Strokes	S.P.M	170	145	122	125	90	55	53	55	50	50	100	55	50	50	45	45	40	40	
Max. Die Set Height	mm	115	130	160	140	180	180	150	220	270	270	180	220	270	280	290	340	350	360	
Die Height Adjustment	mm	30	50	60	60	70	70	70	80	90	90	70	80	90	90	100	100	100	100	
Depth of Throat	mm	110	130	160	200	175	190	205	240	260	280	190	240	260	290	320	380	390	400	
Distance between Uprights	mm	145	185	220	305	240	260	290	300	350	380	240	300	350	380	450	530	480	530	
Size of Table	L-R	mm	310	360	450	620	500	560	610	700	710	560	700	710	780	900	1100	1150	1200	
	F-B	mm	200	240	300	380	330	360	380	460	480	360	460	480	540	600	710	750	780	
	Thickness	mm	35	50	60	60	70	70	70	80	90	90	70	80	90	110	120	140	140	
Hole of Table	Diameter	mm	φ60	φ100	φ110	φ110	φ110	φ120	φ130	φ150	φ180	φ180	φ120	φ150	φ180	φ180	φ200	φ200	φ250	φ300
	Bottom Size of Slide	L-R	mm	140	170	200	200	220	250	255	320	320	220	320	320	380	390	520	650	700
Hole for Punch Shank	F-B	mm	120	150	180	180	200	210	210	270	280	280	200	270	280	280	340	400	450	500
	Diameter	mm	φ30	φ30	φ40	φ40	φ40	φ40	φ40	φ50	φ50	φ50	φ40	φ50	φ50	φ50	φ50	φ60	φ70	φ70
Motor Power	Depth	mm	55	55	60	60	60	60	70	80	80	60	70	80	80	80	80	80	80	
	KW	0.75	1.1	1.5	1.5	2.2	2.2	3	4	5.5	7.5	2.2	4	5.5	7.5	11	11	15	18.5	
Overall Dimensions	F-B	mm	780	870	1140	1200	1200	1350	1480	1500	1890	1890	1350	1500	1890	1910	2200	2250	2350	2500
	L-R	mm	550	640	905	850	880	950	1050	1180	1400	1400	950	1180	1400	1500	1500	1710	1810	1850
	Height	mm	1500	1660	1890	1850	2000	2130	2220	2300	2750	2820	2220	2300	2750	2850	3180	3230	3480	3570
Total Weight	kg	380	770	1090	1190	1400	1950	2250	3400	4600	5300	1870	3400	4600	5650	8500	9600	13300	15800	

POWER PRESS MACHINE

J25-200B



JB36-250



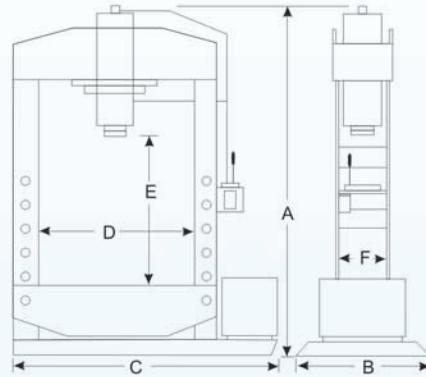
OPEN TYPE DOUBLE-CRANK PRESS

Model	Unit	J25-80B		J25-110B		J25-160B		J25-200B		J25-250B		J25-315B		J25-400	J25-500	
		L	S	L	S	L	S	L	S	L	S	L	S	/	/	
Nominal Pressure	KN	800		1100		1600		2000		2500		3150		4000	5000	
Nominal Pressure Stroke	mm	4.5	2.5	5	3	6	3	7	4	7	4	8	5	8	10	
Stroke of Slide	mm	160	90	180	110	200	160	230	150	250	180	250	180	250	280	
Strokes	Variable	S.P.M	40-75	50-90	35-65	45-80	30-50	35-65	25-45	30-55	20-40	30-50	20-30	25-45	20-30	18-25
	Single	S.P.M	70	/	60	/	45	/	40	/	35	/	30	/	25	22
Max.Die Set Height	mm	380	415	400	435	450	485	500	540	550	585	550	585	550	580	
Die Height Adjustment	mm	80		90		100		110		120		120		120	120	
Distance between Uprights	mm	1310		1450		1630		1900		2130		2130		2330	2330	
Size of Table	L-R	mm	1650		1880		2040		2420		2700		2700		2900	3100
	F-B	mm	600		680		760		840		920		920		920	950
	Thickness	mm	150		160		170		180		200		200		220	240
Bottom Size of Slide	L-R	mm	1200		1360		1500		1850		2100		2100		2300	2300
	F-B	mm	460		520		580		650		700		700		850	850
Main Motor Power	kw	11		15		22		22		30		37		45	55	
Overall Dimensions	F-B	mm	2145		2230		2535		2720		2940		2980		3100	3150
	L-R	mm	2210		2415		2415		3055		3250		3250		3400	3600
	Height	mm	2290		3150		3360		3820		4365		4445		4550	5000
Total Weight	kg	15000		16000		21000		32000		45000		48000		57000	68000	

CLOSE TYPE DOUBLE-CRANK PRESS

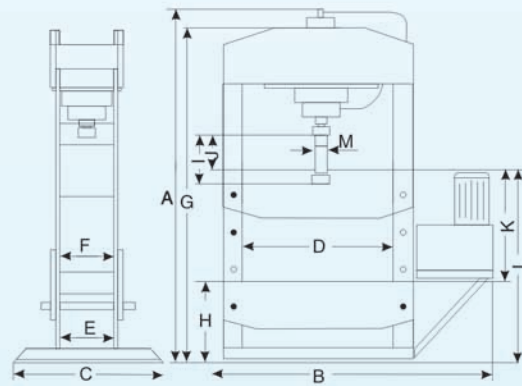
Model	Unit	JB36-110		JB36-160		JB36-200		JB36-250		JB36-315		JB36-400		JB36-500		JB36-630	
		L	S	L	S	L	S	L	S	L	S	L	S	L	S	/	
Nominal Pressure	KN	1100		1600		2000		2500		3150		4000		5000		6300	
Nominal Pressure Stroke	mm	5	3	6	3	7	4	7	4	8	5	8	5	10	6	10	
Stroke of Slide	mm	180	110	200	130	230	150	250	180	250	180	250	180	280	180	300	
Strokes	S.P.M	35-65	45-80	30-50	35-65	25-45	20-55	20-40	30-50	20-40	30-50	20-30	25-45	18-25	18-30	12-20	
Max.Die Set Height	mm	400	435	450	485	500	540	550	585	550	585	550	585	580	630	700	
Die Height Adjustment	mm	90		100		110		120		120		120		120		120	
Distance between Uprights	mm	1750		1970		2340		2600		2860		2860		2900		3100	
Size of Table	L-R	mm	1730		1930		2320		2550		2800		2800		2850		3000
	F-B	mm	680		760		840		920		950		1000		1200		1400
	Thickness	mm	160		170		180		200		200		220		240		250
Bottom Size of Slide	L-R	mm	1360		1500		1850		2100		2300		2300		2400		2600
	F-B	mm	520		580		650		700		750		800		850		1100
Windows Size	Height	mm	710		865		700		700		830		850		780		800
	F-B	mm	600		800		800		900		980		960		1000		1200
Main Motor Power	kw	15		22		22		30		37		37		45		55	

HYDRAULIC PRESS



Model	CAPACITY	PISTON STROKE	MOTOR	NW./G.W.
TMHP-30	30TON	220MM	1.5KW	600/600KG
TMHP-50	50TON	220MM	2.2KW	780/860KG
TMHP-100	100TOM	220MM	2.2KW	1200/1300KG
TMHP-150	150TOM	220MM	3KW	1500/1600KG

A	B	C	D	E	F
1460	450	1100	500	480	200
1750	550	1300	800	650	250
1950	750	1550	1000	750	350
1950	750	1550	1000	750	350



	A	B	C	D	E	F	G	H	I	J	K	L	M
MDY-30	1870	1420	800	800	280	360	1790	435	300	145	605	1035	70
MDY-50	1980	1505	850	900	270	375	1880	435	320	210	600	1030	80
MDY-63	2130	1650	900	1100	260	385	1975	435	350	180	760	1190	80
MDY-80	2260	1760	1100	1100	270	375	2130	480	350	300	720	1230	100
MDY-100	2300	2030	1200	1060	300	425	2155	430	350	240	500	905	150
MDY-150	2310	2040	1300	1060	390	515	2140	430	350	445	507	935	160
MDY-200	2300	2070	1360	1160	470	530	2140	450	350	480	500	950	220

Model	Unit	MDY-30	MDY-50	MDY-63	MDY-80	MDY-100	MDY-150	MDY-200
Capacity	KN	300	500	630	800	1000	1500	2000
Work pressure	Mpa	25	30	30	30	30	30	30
Piston stroke	mm	300	320	350	350	350	350	350
Motor	KW	1.5	1.5	3	3	7.5	7.5	7.5
N.W./G.W.	kg	650/800	800/1000	1000/1200	1200/1400	1460/1700	1750/2000	2150/2400

Q35Y HYDRAULIC IRON WORKER

- Sturdy weldment structure;
- Exact stroke length adjustment on all five station, individual adjustment with limit switches;
- Precise machine stop in any position for secure and exact workpiece and fool setup (jog operation);
- 2 cylinder operation, punch and shearing cylinder operates the three shearing stations and the notching unit;
- Central lubrication;
- Optional triangular or rectangular notching unit;
- Hydraulic overload protection;
- Large assortment of accessories;
- Special tools upon request.

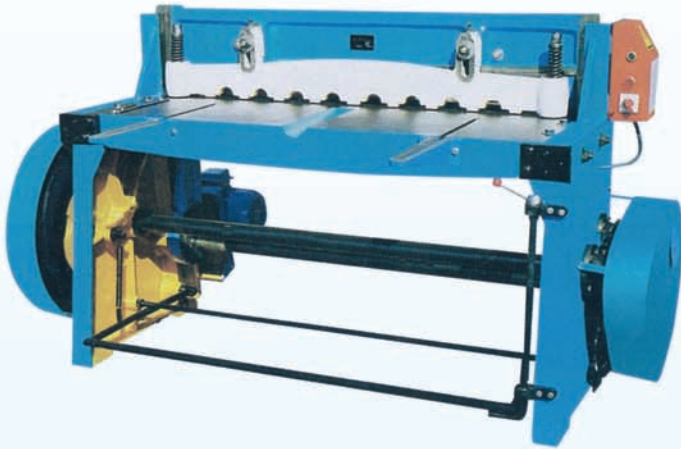


UNIT:mm/inch

Model	Q35Y-16	Q35Y-20	Q35Y-25	Q35Y-30
PUNCHING				
Rated Capacity	550KN	750KN	1100KN	1400KN
Dia. x Thickness	25 x 16(1 x 0.64)	30 x 20(1.2 x 0.8)	35 x 25(1.4 x 1)	38 x 26(1.52 x 1.04)
Throat Depth	300(12)	355(14.2)	400(16)	600(24)
Max.Stroke Length	80(3.2)	80(3.2)	80(3.2)	80(3.2)
Speed-3/4inch travel	48(24cycles)	48(24cycles)	48(24cycles)	56(28cycles)
Flange Punch	6	6	6	6
SHEARING				
Max.Flat Bar Thickness	16 x 250(0.64 x 10)	20 x 300(1 x 13.2)	25 x 330(1 x 13.2)	30 x 355(1.2 x 14.2)
Max.Flat Bar Width	8 x 400(0.32 x 16)	10 x 480(0.4 x 19.2)	16 x 600(0.64 x 24)	20 x 600(0.8 x 24)
Blade Length	410(16.4)	485(19.4)	610(24.4)	610(24.4)
Blade Angle	7°	8°	8°	8°
ANGLE CUTTING				
Equal Angle Shearing 45°	70 x 8(2.8 x 0.32)	70 x 10(2.8 x 0.4)	80 x 8(3.2 x 0.32)	80 x 10(3.8 x 0.4)
T-Bar90°	125 x 12(5 x 0.48)	140 x 12(5.6 x 0.48)	160 x 14(6.4 x 0.56)	180 x 16(7.2 x 0.64)
SECTION CUTTING				
Square Bar L x L	40 x 40(1.6 x 1.6)	50 x 50(2 x 2)	50 x 50(2 x 2)	55 x 55(2.2 x 2.2)
Round Bar Diameter	45(1.8)	50(2)	60(2.4)	65(2.6)
NOTCHING				
Thickness	10(0.4)	13(0.52)	14(0.56)	16(0.64)
Width	50(2)	52(2.08)	55(2.2)	60(2.4)
Depth	100(4)	100(4)	100(4)	100(4)
SPECIFICATION				
Motor Power	4kw	5.5kw	7.5kw	11kw
Motor Speed	1440r/min	960r/min	1440r/min	1440r/min
Machine Dims	1640 x 750 x 1770	1860 x 900 x 1900	2090 x 960 x 2355	2300 x 1040 x 2680
	(65.6 x 30 x 70.8)	(74 x 36 x 76)	(83.6 x 38.4 x 94.2)	(92 x 41.6 x 107.2)
Net Weight	1600/1800kg	2600/2200kg	4800/5500kg	6800/7800kg
SPECIAL ACC.				
Channel Model	12	16	20	28
Joist Model	12	16	20	28
Capacity for mold Max.Bending	500 x 4(20 x 0.16)	500 x 4(20 x 0.16)	600 x 4(24 x 0.16)	600 x 4(24 x 0.16)

POWER SHEARING MACHINE

PS-3×1300



- A brakemotor driving through a shaft mounted speed reduction unit and controlled by as delector switch tor single or continuous strokes provide quiet instantamum;
- Blade clearance is easily set device, is an ideal true cut machining equipment of sheet metal and mon-ferrous sheet metal.

PS-6×2500



PSD-3.5×1250



Model	Shearing Thickness (mm)	Shearing Width (mm)	Shearing Angle (°)	Number of Stroke (time /min)	Back gauge Range(mm)	Motor Power (kw)	Overall Dimensions (LxWxH)(mm)
PS-3×1200	3	1200	2°25'	54	350	2.2	1980×1550×1245
PS-3×1300	3	1300	2°14'	54	350	2.2	2080×1505×1245
PS-3×1500	3	1500	2°25'	54	350	2.2	2280×1505×1245
PS-3.5×1300	3.5	1300	2°14'	65	500	3	2000×1600×1300
PS-4×2000	4	2000	1°30'	55	500	4	3000×1970×1250
PS-4×2500	4	2500	1°30'	55	500	5.5	3500×1970×1250
PS-4×3200	4	3200	1°14'	50	500	7.5	4200×1970×1250
PS-4×4000	4	4000	1°14'	50	500	11	5000×1970×1350
PS-6.3×2000	6.3	2000	2°	40	500	7.5	3175×1765×1530
PS-6×2500	6	2500	1°45'	40	500	7.5	3675×1765×1530
PS-6×3200	6	3200	1°30'	40	500	7.5	4450×2165×1520
PS-8×2500	8	2500	1°57'	45	700	11	3690×2165×1520
PSD-2.5×2500	2.5	2500	1°	47	0-650	5.5	3214×2210×1180
PSD-3.2×2000	3.2	2000	1°45'	47	0-650	7.5	2624×2210×1180
PSD-3.2×2500	3.2	2500	1°18'	47	0-650	7.5	3214×2210×1180
PSD-3.5×1250	3.5	1250	1°30'	47	0-650	5.5	1860×2210×1180
PSD-3.5×3050	3.5	3050	1°30'	47	0-650	9	3599×2448×1290
PSD-2×3660	2	3660	1°30'	47	0-650	9	4200×2448×1240

(CNC) HYDRAULIC GUILLOTINE SHEARING MACHINE

HYDRAULIC TYPE: HGS-...×...



CNC TYPE: CGS-...×...



- This machine is second generation of hydraulic shears; The frame is steel-welded construction, vibrating to eliminate stress, with high strength and good rigidity;
- Advanced integrated hydraulic system with an excellent reliability; Adopt 3-point support rolling guide with very accuracy and to improve the cutting quality;
- Back-gauge positioning, cutting angle regulating can be automatically controlled by CNC controller;
- The cutting angle can be regulated to reduce the deviation of distortion for the plate;
- As the cutting beam has been designed inner-inclined structure, it is easy to fall down for plates and improve the accuracy of products;
- Equipped with light-alignment device;
- Protective fence and the safety interlocker to ensure the operation safety

Model	Shearing Thickness	Shearing Width	Strokes	Backgauge Rang	Shearing Angle	Throat Height	Main power
	mm	mm	mm ⁻¹	mm	(°)	mm	kw
6 × 2500	6	2500	16~35	20~600	30'~1030	800	7.5
6 × 3200	6	3200	14~35	20~600	30'~1030	800	7.5
6 × 4000	6	4000	10~30	20~600	30'~1030	800	7.5
6 × 5000	6	5000	10~0	20~800	30'~1030	900	11
6 × 6000	6	6000	8~25	20~800	30'~1030	1000	11
8 × 2500	8	2500	14~30	20~600	30'~20	800	11
8 × 3200	8	3200	12~30	20~600	30'~20	850	11
8 × 4000	8	4000	10~25	20~600	30'~20	900	11
8 × 5000	8	5000	10~25	20~800	30'~20	1000	15
8 × 6000	8	6000	8~20	20~800	30'~20	1050	15
12 × 2500	12	2500	12~25	20~800	30'~20	840	15
12 × 3200	12	3200	12~25	20~800	30'~20	900	15
12 × 4000	12	4000	8~20	20~800	30'~20	940	15
12 × 5000	12	5000	8~20	20~1000	30'~20	1000	22
12 × 6000	12	6000	6~20	20~1000	30'~20	1060	30
16 × 2500	16	2500	12~20	20~800	30'~1030	840	22
16 × 3200	16	3200	12~20	20~800	30'~1030	900	22
16 × 4000	16	4000	8~15	20~800	30'~1030	940	22
16 × 5000	16	5000	8~15	20~1000	30'~1030	1000	30
16 × 6000	16	6000	6~15	20~1000	30'~1030	1100	37
20 × 2500	20	2500	10~20	20~800	30'~30	900	30
20 × 3200	20	3200	10~20	20~800	30'~30	950	30
20 × 4000	20	4000	8~15	20~800	30'~30	1100	30
20 × 5000	20	5000	8~15	20~1000	30'~30	1100	37
20 × 6000	20	6000	6~15	20~1000	30'~30	1200	37
25 × 2500	25	2500	8~15	20~800	30'~1030	900	37
25 × 3200	25	3200	8~15	20~800	30'~1030	950	37
25 × 4000	25	4000	6~12	20~1000	30'~1030	1100	37
32 × 2500	32	2500	6~12	20~1000	30'~40	1000	55
32 × 3200	32	3200	8~12	20~1000	30'~40	1100	55
40 × 2500	40	2500	4~10	20~1000	30'~40	1200	55
40 × 3200	40	3200	4~10	20~1000	30'~40	1200	55

(CNC) HYDRAULIC SWING BEAM SHEARING MACHINE

CNC TYPE: CSS-...x...



HYDRAULIC TYPE: HSS-...x...



- The frame adopts whole steel welded construction, which the internal stress is eliminated by vibration and heat treatment process.
- It is adopted hydraulic driving; hold-down force will change according to the shearing force.
- The machine is equipped with a power-driven back-gauge and manual fine-adjustment device; the numeral value can be displayed by a counter on operation panel.
- The position of the back-gauge can be automatically adjusted by CNC controller.
- The fast-adjusting mechanism for blade clearance.
- The shadow light device convenient for lineation cutting operation.
- Steel ball working table.
- Safety guards which meet the safety norms.



Model	Shear Size (T x W)(mm)	Shear Angle (°)	Strokes time/min	Adjustment Range mm	Motor Power kw
4 x 3200	4 x 3200	1° 30'	18	20~600	5.5
6 x 2500	6 x 2500	1° 30'	18	20~600	7.5
6 x 3200	6 x 3200	1° 30'	14	20~600	7.5
6 x 4000	6 x 4000	1° 30'	14	20~600	7.5
6 x 5000	6 x 5000	1° 30'	10	20~800	11
6 x 6000	6 x 6000	1° 30'	8	20~800	11
8 x 2500	8 x 2500	1° 30'	16	20~600	11
8 x 3200	8 x 3200	1° 30'	12	20~600	11
8 x 4000	8 x 4000	1° 30'	10	20~600	11
8 x 5000	8 x 5000	1° 30'	8	20~600	15
8 x 6000	8 x 6000	1° 30'	7	20~600	15
10 x 2500	10 x 2500	1° 30'	14	20~800	15
10 x 3200	10 x 3200	1° 30'	12	20~800	15
10 x 4000	10 x 4000	1° 30'	12	20~800	15
12 x 2500	12 x 2500	1° 30'	16	20~800	18.5
12 x 3200	12 x 3200	1° 30'	14	20~800	18.5
12 x 4000	12 x 4000	1° 30'	14	20~800	18.5
12 x 5000	12 x 5000	1° 30'	7	20~800	22
12 x 6000	12 x 6000	1° 30'	6	20~800	22
12 x 8000	12 x 8000	1° 30'	5	20~800	22
16 x 2500	16 x 2500	2°	14	20~800	22
16 x 3200	16 x 3200	2°	12	20~800	22
16 x 4000	16 x 4000	2°	8	20~800	22
20 x 2500	20 x 2500	2° 30'	5	20~800	30
20 x 3200	20 x 3200	2° 30'	5	20~800	30
20 x 4000	20 x 4000	2° 30'	5	20~800	30
25 x 2500	25 x 2500	2° 30'	6	20~800	37
25 x 3200	25 x 3200	2° 30'	6	20~800	37
25 x 4000	25 x 4000	2° 30'	6	20~800	37
32 x 2500	32 x 2500	3°	5	20~800	37
32 x 3200	32 x 3200	3°	5	20~800	37
40 x 2500	40 x 2500	3°	5	20~800	45
40 x 3200	40 x 3200	3°	5	20~800	45
50 x 3000	50 x 3000	3°	5	20~800	90 x 3
50 x 6000	50 x 6000	3°	5	20~800	90 x 5
60 x 3500	60 x 3500	3° 30'	5	20~800	90 x 4

(CNC) HYDRAULIC PRESS BRAKE

HYDRAULIC TYPE: HPB-.../...



CNC TYPE: CPB-.../...



- The press brake adoption whole steel welded structure, and it has enough intensity and rigidity;

Model	Nominal Pressure(KN)	Length of working table(mm)	Distance between uprights(mm)	Throat depth (mm)	Ram stroke (mm)	Motor power (kw)
40/2200	400	2200	1700	200	100	4
40/2500	400	2500	1900	200	100	4
50/2500	500	2500	1900	250	100	4
50/3200	500	2500	2500	250	100	4
63/2500	630	3200	1900	250	120	5.5
63/3200	630	2500	2500	250	120	5.5
80/3200	800	3200	2500	250	120	5.5
80/4000	800	3200	3000	250	120	5.5
100/2500	1000	4000	1900	320	120	7.5
100/3200	1000	2500	2500	320	120	7.5
100/4000	1000	3200	3000	320	120	7.5
100/5000	1000	4000	4000	320	120	7.5
125/2500	1250	5000	1900	320	120	7.5
125/3200	1250	2500	2500	320	120	7.5
125/4000	1250	3200	3000	320	120	7.5
125/5000	1250	4000	4000	320	120	7.5
160/3200	1600	5000	2500	320	200	11
160/4000	1600	3200	3000	320	200	11
160/5000	1600	4000	4000	320	200	15
160/6000	1600	5000	4800	320	200	15
200/3200	2000	6000	2600	320	200	15
200/4000	2000	3200	3100	320	200	15
200/5000	2000	4000	4000	320	200	15
200/6000	2000	5000	4800	320	200	15
250/3200	2500	6000	2600	400	250	18.5
250/4000	2500	3200	3200	400	250	18.5
250/5000	2500	4000	4000	400	250	18.5
300/4000	3000	5000	3300	400	250	22
300/5000	3000	4000	4000	400	250	22
300/6000	3000	5000	5800	400	250	22
400/5000	4000	6000	4000	400	250	30
400/6000	4000	5000	4800	400	250	30
500/6000	5000	6000	4800	400	300	37
600/7000	6000	6000	5600	400	300	45
700/7000	7000	7000	5600	400	300	45

- The RAM stroke and the back gauge can be automatically adjusted by CNC controller;
- A hydraulic system is used for the machine;
- A feeding valve is used to speed up the RAM travel to save energy;
- The operations of the machine are realized by the hydraulic valves;
- A gear pump is used to reduce the noise of the machine, which can achieve the environmental standard;
- The dies are made of carbon steel, which have good rigidity and durable, and they are equipped with adjusting wedges of high precision;
- Word-class elements are used for the electric system of the machine, which is safe and reliable;
- There are multi catenation and interlock in the electric system, which can avoid mistakes;
- The machine is equipped with fully safety guard and emergency stop which can ensure the safety of the operators;
- The position of the back-gauge and the stroke of the RAM can be accurately adjusted by operating the touch screen;
- The CNC system can auto calculate the bending angle;
- Operator can edit machining program in advance, and the system will process as the programs require;
- The CNC system can also realize alarming function, which can avoid overload and damage to machine.

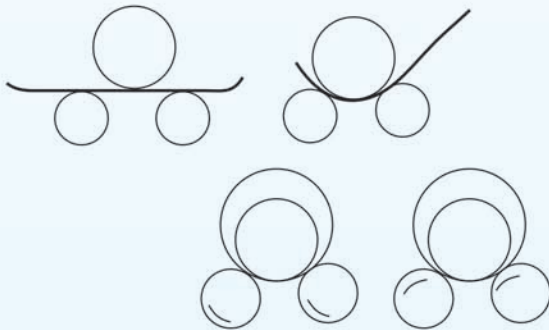
THREE ROLLERS SYMMETRIC ROLLING MACHINE

MTR-6×2000



MTR: Mechanical type
HTR: Hydraulic type

- The construction of this machine is in the form of three roller symmetry.
- The top roller, in the central symmetry position over the two bottom rollers, does vertical motion up and down through screw, nut and worm transmission.
- Decelerator gears bottom rollers providing torsion moment for coiling sheet metal.



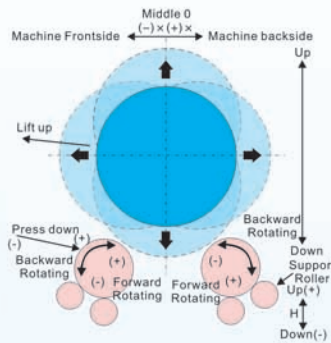
ROLLING LAYOUT

HTR-25×2500



Model	Max Thickness of Coiled Plate (mm)	Max Width of Coiled Plate (mm)	Yielding Limit of Sheet Metal (Mpa)	Coiling Speed (m/min)	Min Full Loading Diameter of Coiled Plate (mm)	Diameter of Top shaft (mm)	Diameter of Bottom shaft (mm)	Center Distance between Bottom Shafts (mm)	Motor Power (kw)
MTR-6 × 1500	6	1500	245	5	450	160	160	250	4
MTR-6 × 2000	6	2000	245	4.5	450	185	170	250	5.5
MTR-6 × 3200	6	3200	245	4.5	500	220	180	280	7.5
MTR-8 × 2500	8	2500	245	4	600	240	180	280	7.5
MTR-12 × 2000	12	2000	245	4	600	240	180	280	7.5
MTR-12 × 3000	12	3000	245	4	700	280	250	359	11
MTR-16 × 2500	16	2500	245	4	700	280	240	359	11
MTR-16 × 3200	16	3200	245	4	700	280	240	359	11
MTR-20 × 2000	20	2000	245	4	850	330	270	440	15
MTR-25 × 2000	25	2000	245	4	850	340	280	440	15
MTR-20 × 2500	20	2500	245	4	850	340	280	440	15
HTR-30 × 2000	30	2000	245	4	1200	360	290	480	22
HTR-25 × 2500	25	2500	245	4	1200	370	300	480	22
HTR-30 × 2500	30	2500	245	4	1200	420	360	550	30
HTR-25 × 3000	25	3000	245	4	1200	430	370	550	30
HTR-30 × 3000	30	3000	245	4	1200	450	390	600	30
HTR-40 × 2500	40	2500	245	3.5	1400	500	400	600	37
HTR-40 × 3000	40	3000	245	3.5	1600	540	440	600	45
HTR-50 × 3000	50	3000	245	3.5	2000	580	480	750	55
HTR-60 × 3000	60	3000	245	3.5	2400	660	560	800	75
HTR-70 × 3000	70	3000	245	3.5	2800	710	620	850	90
HTR-80 × 3000	80	3000	245	3.5	3200	770	680	900	90
HTR-90 × 3000	90	3000	245	3.5	3600	820	730	950	110
HTR-100 × 3000	100	3000	245	3.5	4000	860	770	1000	110
HTR-110 × 3000	110	3000	245	3.5	4400	900	810	1080	132
HTR-120 × 3000	120	3000	245	3.5	4800	950	860	1160	132

UPPER ROLL UNIVERSAL THREE ROLLERS ROLLING MACHINE



- Unique curved technology, the end part of high accuracy has in advance curved, no back angle when bending continuously, curved course digital control;
- Man-machine interaction control interface, efficient intelligent operation. Physical curved technology software, man-machine interaction window, curved course automatic compensation;
- Rich curved shape, have rolling O type, U type, multistage R and other different shape.

★ Pre-bending function ★ Cone bending function

Model	Max.rolling thickness(mm)	Max.pre-rolling thickness(mm)	Plate width (mm)	Diameter of upper roller(mm)	Main motor power(kw)
UTR-12 × 2000	12	10	2000	250	5.5
UTR-16 × 2000	16	12	2000	255	7.5
UTR-16 × 2500	16	12	2500	300	15
UTR-18 × 3000	18	14	3000	350	15
UTR-20 × 3000	20	16	3000	375	22
UTR-25 × 2500	25	20	2500	380	22
UTR-30 × 2500	30	25	2500	410	30
UTR-30 × 3000	30	25	3000	450	30
UTR-32 × 3000	32	28	3000	460	37
UTR-35 × 2500	35	30	2500	460	37
UTR-35 × 3000	35	30	3000	510	45
UTR-40 × 2500	40	35	2500	500	45
UTR-40 × 3000	40	35	3000	540	55
UTR-40 × 4000	40	32	4000	610	55
UTR-45 × 3000	45	40	3000	590	55
UTR-45 × 4000	45	40	4000	660	75
UTR-50 × 4000	50	45	4000	700	75
UTR-55 × 3000	55	45	3000	620	75
UTR-55 × 4000	55	50	4000	750	90
UTR-60 × 3000	60	50	3000	650	75
UTR-60 × 4000	60	55	4000	780	90
UTR-65 × 4000	65	60	4000	810	90
UTR-70 × 3000	70	60	3000	710	75
UTR-70 × 4000	70	65	4000	840	90
UTR-75 × 3000	75	65	3000	740	90
UTR-80 × 3000	80	70	3000	770	90
UTR-80 × 4000	80	75	4000	900	90
UTR-90 × 3000	90	80	3000	800	90
UTR-100 × 3000	100	90	3000	860	90
UTR-100 × 4000	100	85	4000	940	2 × 55
UTR-110 × 4000	110	95	4000	990	2 × 75
UTR-120 × 3000	120	100	3000	900	2 × 55
UTR-130 × 3000	130	110	3000	960	2 × 75
UTR-150 × 3000	150	120	3000	980	2 × 75
UTR-160 × 4000	160	130	4000	1260	2 × 90

TRF-6×2000



THREE ROLLERS ASYMMETRIC ROLLING MACHINE

Model	Max thickness of coiled plate (mm)	Max. width of coiled plate (mm)	Yield Limit of Sheet Metal (mm)	Coiling Speed (m/min)	Min Full Loading Diameter of Coiled Plate (mm)	Diameter of Top shaft (mm)	Diameter of Bottom shaft (mm)	Central Distance between Bottom Shafts (mm)	Motor Power (kw)
TRF-2×1000	2	1000	245	6	250	120	120	120	2.2
TRF-2×1200	2	1200	245	6.1	250	120	120	120	2.2
TRF-2×1500	2	1500	245	6	250	130	130	130	2.2
TRF-2×2000	2	2000	245	6.1	250	130	130	130	2.2
TRF-4×1000	4	1000	245	5.4	300	140	140	140	3
TRF-4×1200	4	1200	245	5.4	300	140	140	140	3
TRF-4×2000	4	2000	245	5.4	350	150	150	150	3
TRF-6×1000	6	1000	245	5.4	350	140	140	140	3
TRF-6×1500	6	1500	245	5.4	400	150	150	150	4
TRF-6×2000	6	2000	245	5.4	400	160	160	160	4
TRF-6×2500	6	2500	245	5.4	400	160	160	160	5.5

HAND BRAKE

Model	Capacity (mm)			Packing size (mm)	N.W./G.W (kg)
	Width	Thickness	Angle		
H1.2×1010	1010	1.2	0-150°	135×82×50	118/150
H1.5×1220	1220	1.5	0-135°	162×48×68	130/148
H2.5×1220	1220	2.5	0-135°	175×77×90	520/580
H1.2×1300	1300	1.2	0-150°	159×79×120	118/148
H2.0×2040A	2040	2	0-135°	250×77×110	850/1000
H2.5×2040A	2040	2.5	0-135°	250×77×110	1145/1295
H2.0×2540A	2540	2	0-135°	300×77×110	1190/1360
H2.5×2540A	2540	2.5	0-135°	300×77×110	1310/1480
H2.0×3050A	3050	2	0-135°	350×77×110	1490/1690

H1.2×1300



H2.0×2040A



PB1.5×1220



PB1.5×1050



PAN & BOX BRAKE

Model	Capacity (mm)			Packing size (mm)	N.W./G.W.(kg)
	Width	Thickness	Angle		
PB1.0×305A	305	1	0-135°	50×35×41	28/30
PB1.0×610A	610	1	0-135°	81×35×42	43/46
PB1.0×915A	915	1	0-135°	117×35×43	70/80
PB1.5×1220	1220	1.5	0-135°	161×48×68	135/151
PB1.5×1050	1050	1.5	0-135°	161×88×111	169/214
PB1.5×1050F	1050	1.5	0-150°	145×70×127	265/305

FOLDING MACHINE

Model	F1020/2.5	F1270/2	F1020/2A	F1270/2A	F1020/3SH	F1270/3SH
Max.working length(mm)	1020	1270	1020	1270	1020	1270
Max.sheet thickness(mm)	2.5	2	2	2	2	1.5
Max.clamping bar lift(mm)	47	48	48	48	45	45
Folding angle	0-135°	0-135°	0-135°	0-135°	0-150°	0-150°
Packing size(cm)	146×62×127	170×71×127	146×62×127	170×71×127	146×93×142	171×100×142
N.W./G.W.(kg)	285/320	320/360	320/350	350/385	340/430	370/465

F1020/2A



F1020/3SH



HYDRAULIC SECTION BENDER

W24Y-400



W24Y-500



W24Y-1000

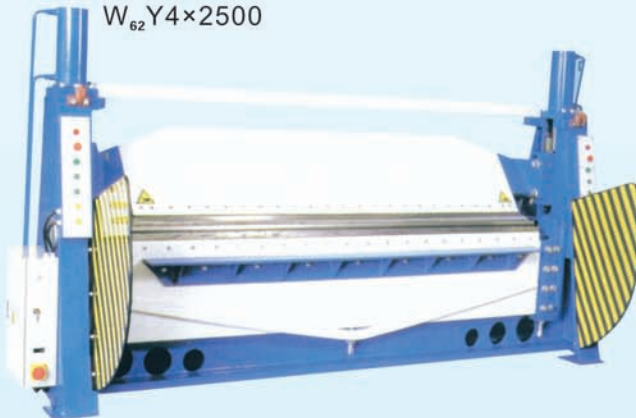


Model		W24Y-400	W24Y-500	W24Y-1000
Yield limit	mm	<245	<245	<245
Minimum bending Dia (Angle steel leg out)	mm	200-400	300-400	400-600
Capacity		L40×4	L50×5	L75×7
Overall size	L.mm	1000	1200	1320
	W.mm	750	750	950
	H.mm	1350	1580	1270
Overall size	kg	500/600	900/1030	2500/2750
N.W/G.W	kw	2.2/1.5	2.2/2.2	4/2.2

- The machine is an efficient processing machine which is specially de–signed to bend I steel, U steel, flat beam, solid bar, etc;
- It has three working rollers, the positions of the two bottom rollers can be adjusted along the arc. sting rollers are installed on both sides of the machine to control the work quality in the bending of proportional steel sections;
- The main machine that's adjustable and able to deal with different types of material and specifications only by recombining the die settings;
- The machine offers low cost with flexibility and reliability.

HYDRAULIC FOLDER

W₆₂Y4×2500



- The folder has a welded steel frame and has a vibration treated material to reduce internal stress. Thus it is durable, rigid and difficult to deform;

Model		Unit	W ₆₂ Y4 × 2500	W ₆₂ Y5 × 2000	W ₆₂ Y4 × 3100
Folding length	mm		2500	2000	3100
Folding thickness	mm		4	6	4
Evolving angle of the bending beam			110°	110°	110°
Max. lift of the upper beam	mm		200	200	200
Overall size	mm		3350	2850	3875
	mm		1000	1250	1250
	mm		2000	2000	2000
Weight	kg		2600	2850	4309
Main motor	kw		4.5	5.5	5.5

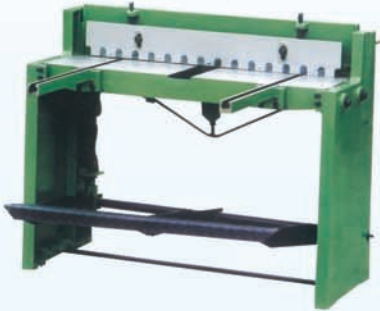
- The machine is fully hydraulic controlled, quiet and easy to operate. It is suitable for box type products with its split sectional clampers;
- Maximum opening is up to 200mm, upper clam–per auto retraction and fast angle adjustment is available;
- It is specially suitable for use in the kitchen ware, hardware and the furniture making industry.

HAND SHEARING MACHINE

Model	Q01-1.5x1500	Q01-1.25x2000
Width(mm)	1500	2000
Max. shearing thickness(mm)	1.5	1.25
Back gauge range(mm)	0-300	0-300
Packing size (cm)	208x76x120	258x76x120
N.W./G.W.(kg)	445/515	511/600



Q01-1.5x1320



FOOT SHEARING MACHINE

Model	Q01-1.0x1000	Q01-1.5x1320	Q01-2x1000
Width(mm)	1000	1320	1000
Max. shearing thickness(mm)	1	1.5	2.5
Back gauge range(mm)	0-840	0-840	0-840
Packing size (cm)	140x76x115	168x76x115	140x76x115
N.W./G.W.(kg)	365/410	491/545	430/490

ANGLE CUTTING MACHINE

Model	TAC-4x200	TAC-6x200
Shear size(mm)	4(A3).2(SS)	6(A3).3(SS)
Shear length(mm)	200	200
Adjustment of cutting angle	60° -135° .30° -135°	60° -135° .30° -135°
Shear number(time/min)	40	30
Size of working table(mm)	1000x800	1000x800
Main power(kw)	4	5.5
Dimension(L x W x H)(mm)	1850x1200x1650	2150x1200x1650
Weight(kg)	1600	2100

TAC-4x200



- High-rigidity & precisely machined steel welded machine frame which stress is removed by vibration process;
- Hydraulic variable-angle shear ; The large range for adjustment cutting angle, the adjust fast speed for hand wheel.

W01-1.5x1300



W01-2x1000



SLIP ROLL MACHINE

Model	Max thickness (mm)	Max width (mm)	Dia of Roll (mm)	Packing Dimension (cm)	G.W./N.W (kg)
W01-0.8x305	0.8	305	25.4	54x24x28	14.5/13
W01-0.8x610	0.8	610	38	95x27x38	40/37
W01-0.8x915	0.8	915	50	134x34x50	98/80
W01-0.8x1000	0.8	1000	50	148x35x50	107/86
W01-0.8x1300	0.8	1300	60	180x50x50,156x42x13	195/172,27/20
W01-1.5x915	1.5	915	50	134x45x54	120/95
W01-1.5x1300	1.5	1300	75	175x53x63	275/245
W01-2x610	2	610	60	126x68x118	210/166
W01-2x1000	2	1000	60	155x65x118	240/200

ELECTRIC SLIP ROLL MACHINE

Model	Max rolling thickness (mm)	Max rolling width (mm)	Motor power (kw)	Motor power (kw)	Packing dimension (cm)	Weight (kg)
ESR-1300x1.5	1.5	1300	1.5	1.5	190x55x115	280
ESR-1020x2	2	1020	1.5	1.5	174x70x126	260
ESR-1300x1.5E	1.5	1300	1.5	1.5	190x55x110	280
ESR-1300x2.5	2.5	1300	1.5	1.5	180x64x100	470
ESR-1300x4.5	4.5	1300	2.2	2.2	181x64x105	660
ESR-1550x3.5	3.5	1550	2.2	2.2	206x64x105	750
ESR-2020x3	3	2020	4	4	253x64x105	950

ESR-1300x2.5



HYDRAULIC&ELECTRIC SLIP ROLL

HER-2070×4.5

Model	Mild steel capacity	Roll diameter	Motor power	Dimension	Weight
HER-1300x6.5	1300x6.5mm	150mm	2.2kw	210x81x140cm	2041kg
HER-1550x4.5	1550x4.5mm	150mm	2.2kw	240x81x140cm	2450kg
HER-1550x6.5	1550x6.5mm	180mm	4kw	249x89x140cm	2994kg
HER-2070x4.5	2070x4.5mm	180mm	4kw	305x89x140cm	3720kg
HER-2070x6.5	2070x6.5mm	190mm	4kw	305x100x150cm	3856kg



3-IN-1 COMBINATION OF SHEAR, BRAKE & ROLL MACHINE



3-IN-1/1067×1.5



3-IN-1/305

Model	3-IN-1/305	3-IN-1/610	3-IN-1/760	3-IN-1/1016	3-IN-1/1067	3-IN-1/1320	3-IN-1/1067x1.5	3-IN-1/1320x1.5
Bed width(mm)	305	610	760	1016	1067	1320	1067	1320
Max. shearing thickness(mm)	1	1	1	1	1	1	1.5	1.5
Max. bending thickness(mm)	1	1	1	1	1	1	1.5	1.5
Max. bending angle	90°	90°	90°	90°	90°	90°	90°	90°
Max. rolling thickness(mm)	1	1	1	1	1	1	1.5	1.5
Min. rolling dia.(mm)	39	39	39	43	43	43	62	76
Packing size(cm)	49x33x42	84x46x67	97x45x68	135x45x68	142x56x75	168x56x75	154x61x90	183x61x97
N.W./G.W.(kg)	43/45	112/113	153/165	195/212	276/297	349/377	390/440	470/530

ELECTRIC 3-IN-1 COMBINATION OF SHEAR, BRAKE & ROLL MACHINE

Model	E3-IN-1/1320	E3-IN-1/2040
Max Shearing thickness(mm)	3	3
Max shearing width(mm)	1320	2040
Shearing angle	2°	2150
Number of stroke(per min)	30	30
Back-gauge range(mm)	450	450
Height of worktable(mm)	760	760
Max bending thickness(mm)	2	2
Max bending width(mm)	1320	2040
Max rolling thickness(mm)	3	3
Max rolling width(mm)	1500	2100
Min rolling dia.(mm)	90	120
Motor power(kw)	3	4
N.W./G.W.(kg)	2300/2800	3500/3800
Packing size(cm)	254 × 145 × 197	326 × 145 × 197

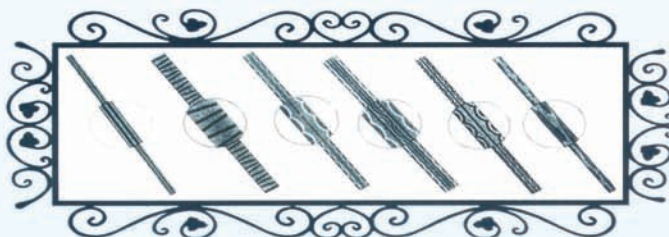
E3-IN-1/1320



METAL CRAFT COINING MACHINE

Model	CM-60	
Max Sizes of Stocks to be processed(mm)	Flat Steel	60 × 10
	Square Steel	25 × 25
	Round Steel	φ 20
	Rectangular Steel Pipe	80 × 50
Output Rotation Speed of Main Shaft(r/min)	Frequency Acceleration Speed Adjustment	
Motor Power(kw)	7.5	
N.W.(kg)	1050	
G.W.(kg)	1230	
External Size(L × W × H)(mm)	1780 × 1290 × 1380	

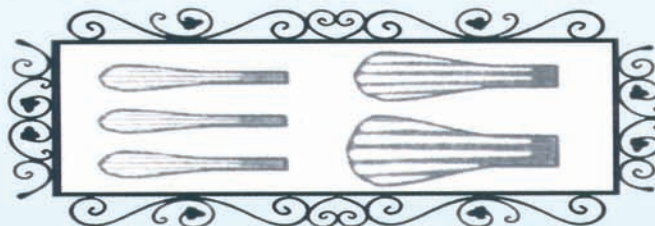
CM-60



FISHTAIL COINING MACHINE



FTCM-60



Model	FTCM-60	
Max Sizes of Stocks to be Processed(mm)	Flat Steel	60 × 10
	Square Steel	14 × 14
	Round Steel	φ 14
Rotating Speed of the Main Shaft(r/min)	20	
Motor Power(kw)	3	
N.W.(kg)	232	
G.W.(kg)	290	
External size(L × W × H)(mm)	1020 × 460 × 1160	
Packing Size (L × W × H)(mm)	1120 × 580 × 1300	

COMBINATION ORNAMENTAL BENDING MACHINE

Model	UNIBEND-20	
Rolling(mm)	○	φ 20 × 1
	□	20 × 20 × 1
	●	φ 16
	—	30 × 10
Scroll rolling(mm)	●	φ 16
	■	16 × 16
	—	30 × 10
Angle iron bending (mm)	●	φ 16
	■	12 × 12
	—	30 × 8
Bar twising(mm)	■	16 × 16
	—	30 × 10
Motor	1.1kw	
Dimensions(L × W × H)	1460 × 780 × 1110mm	
N.W./G.W.	280/540kg	



UNIBEND-20

METAL CRAFT TWISTER



FJ-B-3



Model	FJ-B-3
Hardness of stocks to be processed	Mild steel
length of the stocks to be processed(mm)	200-800
Size of the stocks to be processed(mm)	12×12 14×14 16×16 20×20 25×25 For steel stripes:30×5
Rotating speed of the main shaft(rpm)	12
Motor power(kw)	3
Dimensions(L×W×H)(mm)	1270×550×1160
N.W./G.W.(kgs)	300/450

MOTOR-DRIVEN CIRCLE BENDER

Model	FJ-B-1
Pipe material	
-round	30×1mm
-square	30×30×1mm
Solid material	
-round	16mm
-flat	30×10mm
Speed	9min ⁻¹
Motor	1.1kw
Dimensions(L×W×H)	90×670×1300mm
N.W./G.W.	270/350KGS



FJ-B-1

MOTOR-DRIVEN ORNAMENTAL BENDER

Model	FJ-B-2
Material-round	16mm
Material flat	30×10mm
Material square	16×16mm
Motor	1.1KW
Speed	5min ⁻¹
Dimensions(L×W×H)	810×700×170mm
N.W./G.W	200/280KGS





FJ-B-2

HYDRAULIC BENDING MACHINE

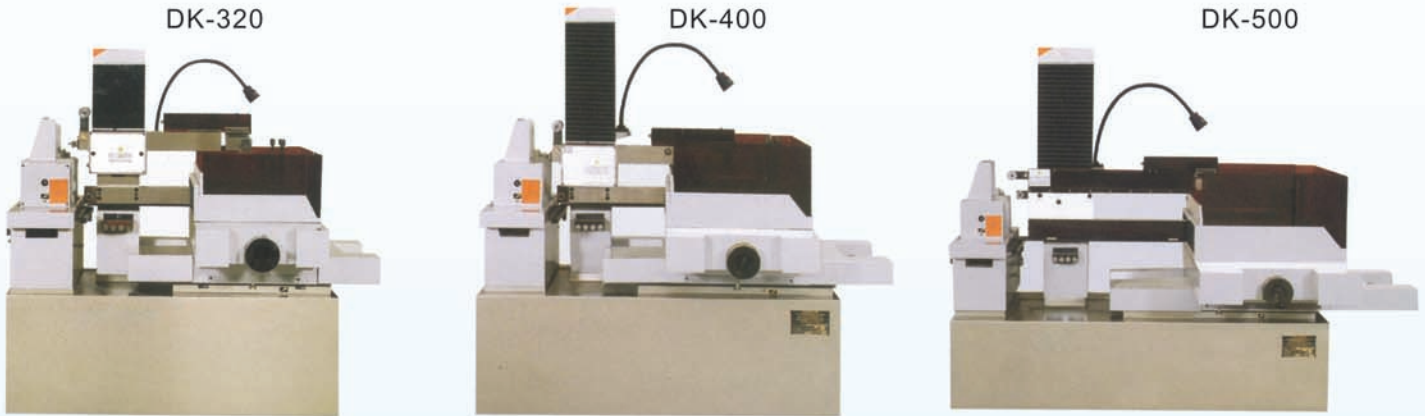


FJ-16H



Model	FJ-16H		
Max.working pressure(TON)	20		
Max.working travel range(mm)	300mm(12")		
Max.size of the workpiece to be processed (mm)		Round steel	φ 16
		Square steel	16×16
		Flat stripes	30×10
		Rouare steel	φ 16
		Square steel	16×16
		Flat stripes	30×10
Motor power	5.5kw		
Dimensions(L×W×H)	1160×710×1340mm		
N.W./G.W.	430/530KG		

MEDIUM SPEED WIRE CUT EDM



- The cast of machine body adopt the resin-sand technology with the influence of high temperature annealing;
- The travel parts of the machine adopt high quality ball screw and linear guide way;
- The structure of wire frame adopt the symmetric structure for the up and down frame to keep the tension of moly-wire within the scope of normal tension;
- Data exchange and remote control is realizable under the powerful network function of XP system;
- The system has the function of pitch correct, which can improve the position accuracy effectively;
- The wire moving is controlled by transducer, which adopts unlimited adjustment;
- The processing components involve godet mechanism, the best roughness $Ra=1.5\ \mu\text{m}$;
- The cooling system is equipped with a large water tank with three levels filtration.



CONTROLLER WITH LCD AND INDUSTRIAL COMPUTER

★ With step motor control and servo control for choice.

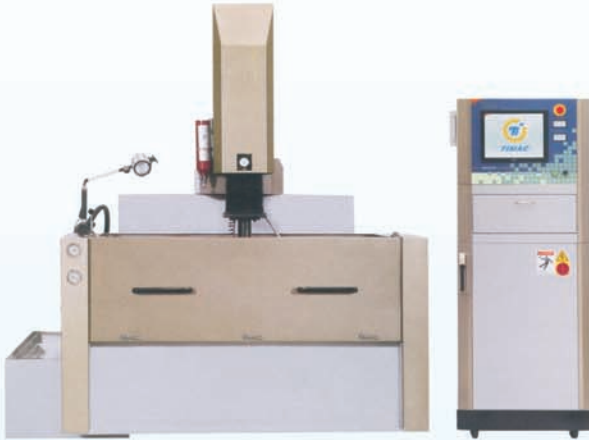
Model	DK-250	DK-320	DK-400	DK-500	DK-630	DK-700	DK-800	DK-1000	DK-1000×150	DK-1300×150	DK-1600×160	DK-1200×200
Work table travel(mm)	250×320	320×400	400×500	500×630	630×800	700×1000	800×1000	1000×1200	1000×1500	1300×1500	1600×1600	1200×2000
Work table size(mm)	380×525	415×635	500×785	600×900	660×1100	760×1400	820×1400	1090×1600	1090×1700	1400×1900	1950×1950	1330×2440
Cutting depth(optional)(mm)	300/500	300/500	500	500	500/800	500/800	500/800	500/800/1000	500/800/1000	500/800/1000	500/800/1000	500/800/1000
Taper(optional)	0° /6° /30° /60°							0° /6° /60°		0° /6°		
Roughness(um)	Ra(once cutting)≤2.5 Ra(Multi-cutting)≤1.5								≤2.5			
Precision(mm)	≤0.015								≤0.02			
Screw&guideway(optional)	Precision ball screw precision steel plated/linear guideway					High quality ball screw Steel linear guideway						
Load of table(kg)	300	400	500	800	3000	5000	5000	5000	6000	6000	6000	6000
Machine weight(mm)	1600	1700	2000	2300	4500	6000	6700	7000	7500	7800	10000	12000

MACHINE MODEL

ITEM	A	B	C	D	E	F	G	H	I
Max workpiece thickness(mm)	300	500	300	500	300	500	300	500	1000
Max.taper angle (within 100mm thick)	0°	0°	±3°	±3°	±30°	±30°	±15°	±15°	±3°

EDM SINKER MACHINE

EDM640CNC



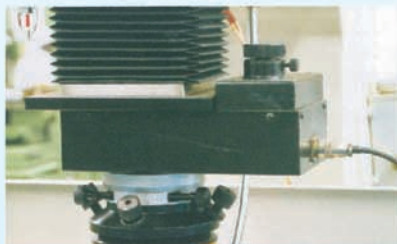
CNC EDM SINKER

- Adopt Taiwan HIWIN linear guideway
- Precision ball screw
- Adopt Japan SANYO AC servo motor
- Base machining current 90A
- Adopt Denmark Grundfos pump

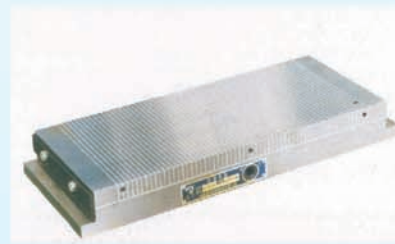
ZNC EDM SINKER

- Adopt Japan SANYO AC servo motor
- Steady safety device, optical sensors, auto answer, fire extinguisher and auto power cut off
- Good machine structure, high rigidity, high precision, adopt v slide design
- Adopt HT300 ageing treatment castion, keep precision long time
- Adopt high quality imported oil pump

EDM450 EDM540 EDM650



OPTIONAL ORBITAL HEAD



OPTIONAL MAGNETIC WORK TABLE

Model	EDM640CNC	ED850CNC	EDM1060CNC	EDM1670CNC	EDM350	EDM450	EDM540	EDM650
Work table size(mm)	900×600	900×600	1100×700	1700×1000	600×350	500×400	800×500	1100×650
Left and right travel(mm)	600	800	1000	1600	350	450	500	650
Back and forth travel(mm)	400	500	600	800	250	350	400	550
Z spindle travel(mm)	350	370	500	550	180+(180)	200+(200)	200+(300)	300+(300)
Max distance between electrode and working table(mm)	770	770	1000	1150	560	660	830	950
Size of oil reservoir(mm)	1650×950×550	1850×950×550	1900×1100×600	2500×1500×700	880×560×350	1180×660×450	1200×740×480	1760×960×560
Spindle hold weight(kg)	130	130	300	400	50	70	150	250
Work table load weight(kg)	2500	2500	3500	6000	300	600	1300	2800
Machine weight(kg)	3400	3500	5500	9000	1200	1500	2200	3500

HYDRAULIC PIPE-BENDING MACHINE

1. SINGLE-HEAD HYDRAULIC PIPE-BENDING MACHINE

High-performance medium-sized pipe-bending machine, with NC control, multi-groups of programs and multi-angle settings make your operation and program setting simpler, widely used in mass production and standardized products, such as: blast pipe, seat, fender-guard and all the steel-pipe furniture, etc.



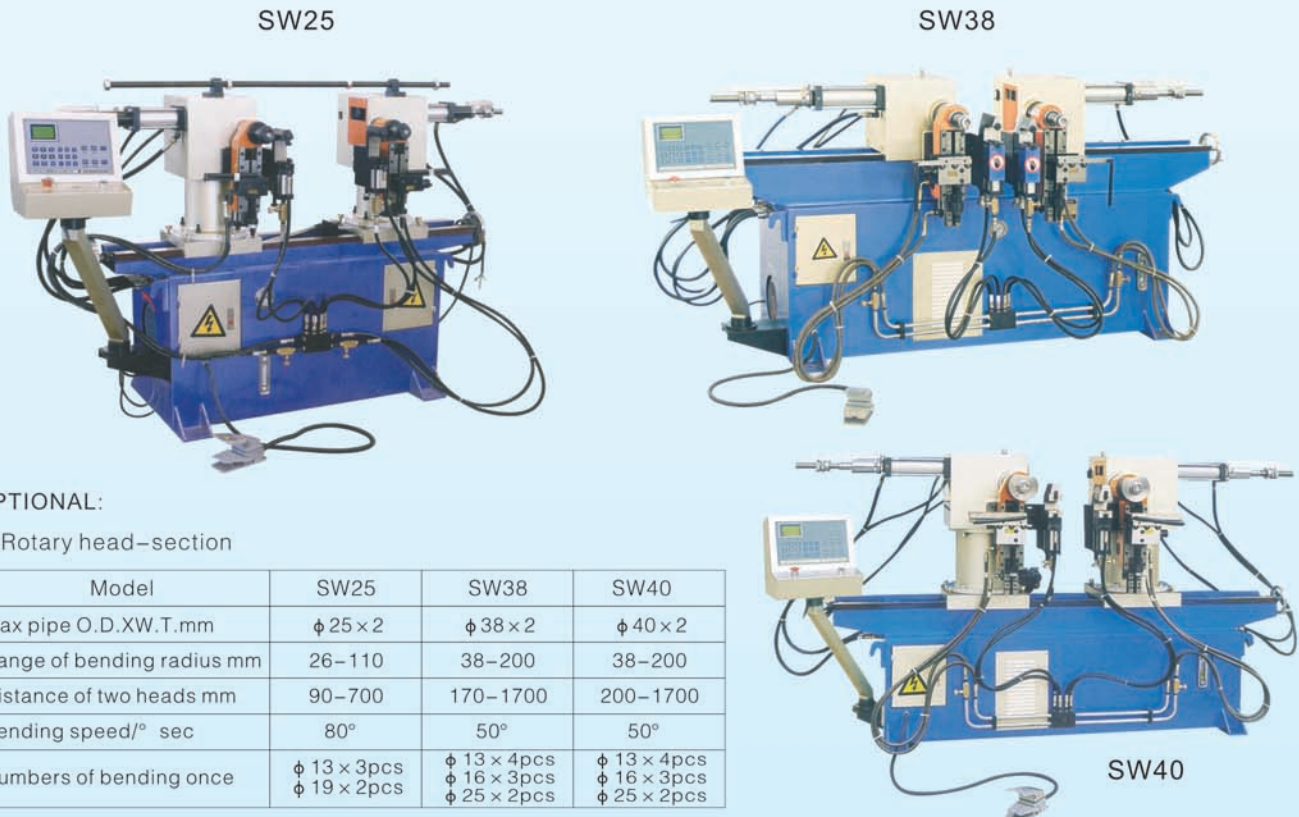
OPTIONAL:

- * Bending on the left
- * 3D mode angle
- * With co-push
- * Full-automated computer control
- * Touching control panel
- * Servo-motor driving mode
- * Hydraulic ratio driving mode
- * Double-layer die
- * Multi-layer die

Model	DW18	DW28	DW38	DW50	DW75	DW80	DW89	DW114	DW129	DW159	DW168
Max pipe O.D.XW.T	φ 18×1.8	φ 28×2	φ 38×2	φ 50×2	φ 72×2	φ 80×3	φ 89×6	φ 114×3 φ 114×8	φ 129×8	φ 159×14	φ 168×14
Range of bending radius mm	5-80	20-200	25-200	35-250	50-300	50-350	50-450	50-450 100-600	100-600	250-800	250-800

2. DOUBLE-HEAD HYDRAULIC PIPE-BENDING MACHINE

High speed double-bending machine, with NC control, makes your operation and program setting simpler, which is applied to automobile, seat, motorcycle, fender-guard, the furniture like tables and chairs inside and outside the office, etc.



OPTIONAL:

- * Rotary head-section

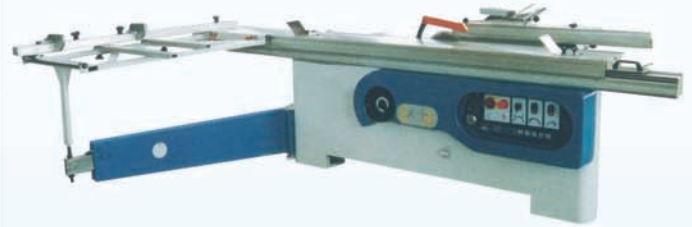
Model	SW25	SW38	SW40
Max pipe O.D.XW.T mm	φ 25×2	φ 38×2	φ 40×2
Range of bending radius mm	26-110	38-200	38-200
Distance of two heads mm	90-700	170-1700	200-1700
Bending speed/° sec	80°	50°	50°
Numbers of bending once	φ 13 × 3pcs φ 19 × 2pcs	φ 13 × 4pcs φ 16 × 3pcs φ 25 × 2pcs	φ 13 × 4pcs φ 16 × 3pcs φ 25 × 2pcs

WOOD WORKING MACHINERY

1. PRECISION SLIDING TABLE PANEL SAW

Model	MJ613B	MJC1126
Max. working length	2500mm	2600mm
Max. working width	2500mm	2800mm
Max. working thickness	80mm	70mm
Major sawblade dia.	250-350mm	300mm
Scoring saw blade dia.	120mm	120mm
Major motor power	4KW	4KW
Scoring saw motor power	0.75KW	0.75KW
Major saw spindle speed	3000/4000/5000r/min	3000/4500/6000r/min
Scoring saw spindle speed	8500r/min	9000r/min
Overall dimensions	2860 × 2600 × 960mm	3200 × 2970 × 1100mm
Net weight	1080kg	1100kg

MJC1126



MX506



MX506×8



2. WOOD ROUTER (MILLER)

Model	MX506	MX506 × 8
Spindle speed	18000r/min	9000/18000r/min
Max. working thickness	40mm	80mm
Table R&D height	130mm	150mm
Throat depth	710mm	745mm
Table dimensions	600 × 800mm	600 × 800mm
Air source pressure		0.4-0.6MPA
Motor power	2.2	2.4,3
Overall dimensions	1500 × 800 × 1350mm	170 × 800 × 1400mm
Net. Weight	370kg	480kg

3. SINGLE-SIDE WOOD WORKING THICKNESSER

Model	MB104H	MB105H	MB106H	MB107H
Max. planing width mm	400	500	630	700
Max. planing thickness mm	200	200	200	200
Max. planing thickness mm	8	8	8	8
Min. planing length mm	220	220	220	220
feeding speed mm/min	8;10;12	8;10;12	8;10;12	8;10;12
Max. planing depth mm	5	5	5	5
Spindle speed r/mm	4800	4800	4800	4800
Blade number	4	4	4	4
Spindle dia. mm	105	105	105	123
Motor KW	4	4	7.5	7.5
Dust outlet dia. mm	100	100	100	100
Overall dimensions mm	850×830×1230	950×830×1230	1080×830×1230	1150×830×1230
Net. weight	406	456	496	560

MB105H



SR-1300



4. WIDE BELT SANDER

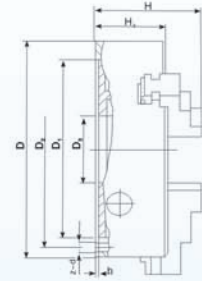
Model	Unit	SR-950	SR-1100	SR-1300
Working width	mm	950	1100	1300
Min. working length	mm	280	320	400
Working thickness	mm	2.5-110	2.5-110	2.5-110
Feeding speed	m/min	6-30	6-30	6-30
Total motor power	kw	20.74	35.94	41.74
Dimensions of abrasive belt	mm	980 × 1900	2200 × 1130	2200 × 1330
Working air pressure	Mpa	0.55	0.55	0.55
Volume of sucked air	m ³ /h	6900	7900	7900
Overall dimensions	mm	1750 × 1050 × 1950	2350 × 1210 × 2050	2700 × 1750 × 2150
Net weight	kg	1500	2800	2480

K11 SERIES CYLINDER CENTE RMOUNTING 3-JAW SELF-CENTERING CHUCKS

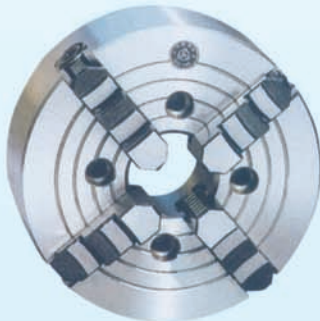
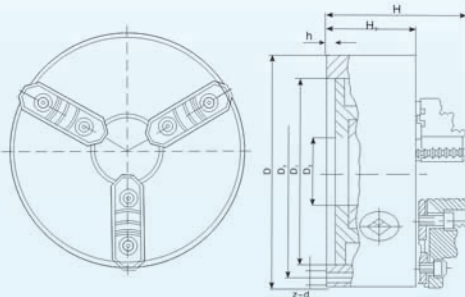
1. STRUCTURE OF SOLID JAWS

The chucks of this type are mounted to spindle nose through an adapting flange.

This chuck is provided with a set of internal jaws and a set of external ones, and soft jaws are offered upon users requests



UNIT:mm



Specification	Size(D)	D	D ₁	D ₂	D ₃	H	H ₁	h	z-d
K11 80	3"	80	55	66	16	66	50	3.5	3-M6
K11 100	4"	100	72	84	22	74.5	55	3.5	3-M8
K11 110	4"	110	72	84	22	74.5	55	3.5	3-M8
K11 125	5"	125	95	108	30	78	55	3.5	3-M8
K11 130	5"	130	100	115	30	78	55	3.5	3-M8
K11 160	6"	160	130	142	40	93	65	5	3-M8
K11 165	6"	165	130	145	40	93	65	5	3-M8
K11 200	8"	200	165	180	60	110	75	6.6	3-M10
K11 240	10"	240	195	215	70	122.5	80	10	3-M12
K11 250	10"	250	206	226	80	121	80	5.5	3-M12
K11 315	12"	315	260	285	100	141	90	6	3-M16

2. MODEL A EQUIPPED WITH STANDARD REVERSIBLE JAWS

The chucks of this type are mounted to spindle nose through an adapting flange. The chucks are supplied with reversible jaws as per Gb4346 (ISO3442) and can perform either as internal or external jaws through adjustment. Soft top jaws are offered upon users requests

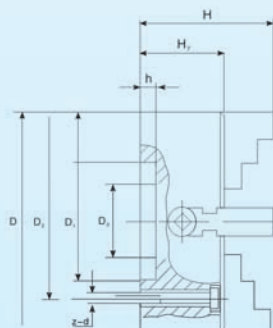
UNIT:mm

Specification	Size(D)	D	D ₁	D ₂	D ₃	H	H ₁	h	z-d
K11 160A	6"	160	130	142	40	109	65	6	3-M8
K11 165A	6"	165	130	145	40	109	65	5	3-M8
K11 200A	8"	200	165	180	60	120	75	5.6	3-M10
K11 240A	10"	240	195	215	70	134	80	8	3-M12
K11 250A	10"	250	206	226	80	134	80	5.5	3-M12
K11 315A	12"	315	260	285	100	154	90	6	3-M16
K11 320A	12"	320	270	290	100	154	90	6	3-M16
K11 325A	12"	325	272	296	100	154	90	6.5	3-M16
K11 380A	15"	380	325	350	130	169	98	6.5	3-M16
K11 400A	16"	400	340	368	130	171	100	7.5	3-M16

K72 SERIES CYLINDER CENTER MOUNTING 4-JAW INDEPENDENT CHUCKS

The chucks of this series are mounted to spindle nose through adapting flange as cylinder mounting.

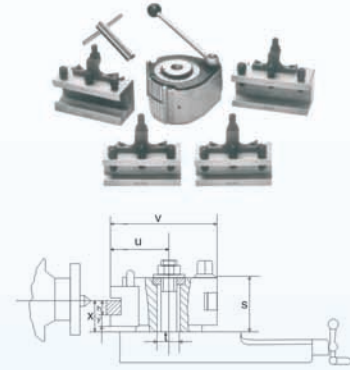
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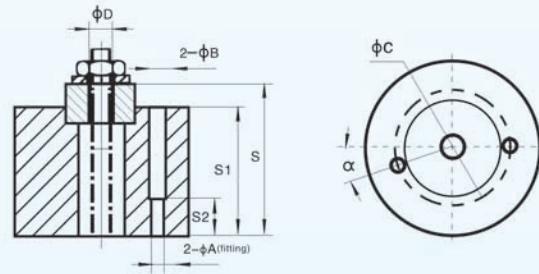
Specification	Size(D)	D	D ₁	D ₂	D ₃	H	H ₁	h	z-d
K72 160	6"	160	53	71	45	97	67	4	4-M10
K72 200	8"	200	75	95	56	107	75	6	4-M10
K72 250	10"	250	110	130	75	120	80	6	4-M12
K72 300	12"	300	152	130	134	134	90	6	4-M16
K72 315	12"	315	140	165	134	134	90	6	4-M16
K72 320	12"	320	140	165	134	134	90	6	4-M16
K72 350	14"	350	130	168	136	136	90	8	4-M16
K72 400	16"	400	160	185	141	141	95	8	4-M16
K72 500	20"	500	200	236	160	160	106	8	4-M20
K72 630	25"	630	220	258	180	180	116	10	4-M20

40-POSITION QUICK CHANGE TOOLPOSTS

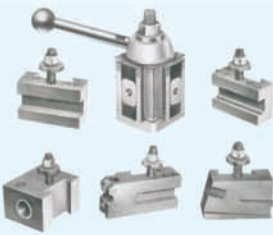
Size	540-000	540-100	540-200	540-300	540-400	540-500
Parameter	D12	D16 D20	D20 D25	D25 D32	D32 D50 D45	D40 D50 D63
Driving Power(kw)	1.2	2	4.5	7	13	19
Lathe Swing(mm)	120-220	150-300	200-400	300-500	400-700	600-1000
X min.(mm)	18.5	25.5 29.5	32 37	38 46	47.5 55.5 61	60 72 85
X max.(mm)	26.5	36.5 40.5	49 52	58 57	87.5 91.5 91	96 102 105
y(mm)	6.5	9.5	12	13 14	15.5 15.5 16	20 22 22
h(mm)	12	16 20	20 25	25 32	32 40 45	40 50 63
v(mm)	68	104	132	150	192 201 202	230 233 241
s(mm)	37	55	68	76	107	124
u(mm)	34	52	66	73	93 102 103	112 114 112
t(mm)	13	20	20	32	40	40



Model	φ D	S2	S1	S	φ A	φ B	φ C	α
A0 540-000	6	—	30	37	—	—	—	—
A1 540-100	10	12	45	55.3	5.6	6.8	42	18°
E5 540-200	10	14	57	67.3	5.6	6.8	49	15°
B2 540-300	14	20	65	75	6.9	9	64	30°
C3 540-400	24.5	10	95	107	9.5	11	88	18°
D1 540-500	14	26	110	125	11	14	103	27°

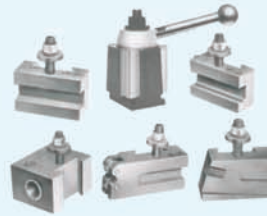


PISTON TYPE QUICK CHANGE TOOLPOSTS



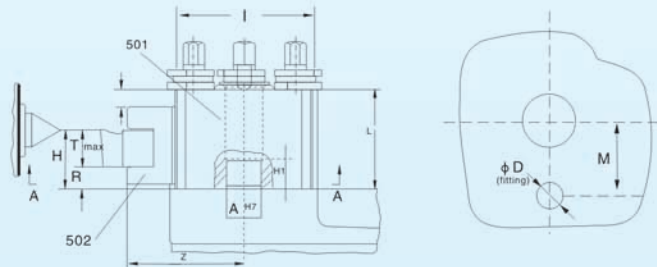
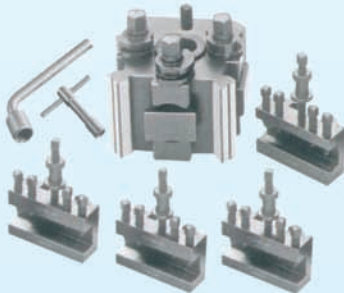
Model	Lathe Swing(in.)	N.W/kg
251-100	12	5.00
251-200	10-15	7.85
251-300	13-18	11.33
251-400	14-20	20.76

WEDGE TYPE QUICK CHANGE TOOLPOSTS



Model	Lathe Swing(in.)	N.W/kg
251-111	12	5.00
251-222	10-15	7.85
241-333	13-18	11.85
251-444	14-20	20.76
251-555	17-48	39.18

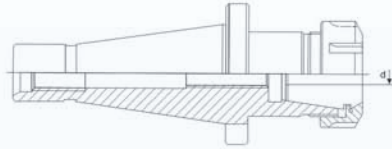
ITALY TYPE QUICK CHANGE TOOLPOSTS



UNIT:mm

Model	Lathe swing	I	AH7	H		L	R	Tmax	Z	φ max	Morse No	φ D	M	H1	□
				Min	Max										
M	180-250	57.7	18	24	34	45	8	16	56	14	1	7	27	18	70
AR-AP	250-300	64.5	18	25	41	56	9	16	63	16	1	8	30	16	80
A	250-350	82.0	24	32	42	60	12	20	75	18	2	10	35	20	100
BR-BP	300-380	91.6	28	38	53	75	13	25	90	20	3	10	40	20	115
B	350-500	100.0	30	47	65	85	15	32	100	24	3	12	48.2	25	127
C	500-650	115.3	38	51	72	94	19	32	108	26	4	14	58.2	26	145
D	650-1200	133	42	61	95	120	21	40	139	35	5	14	65	40	175

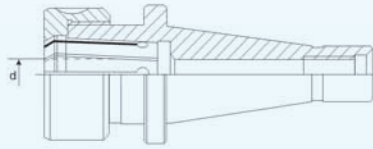
ER-SERIES MILLING CHUCK SET



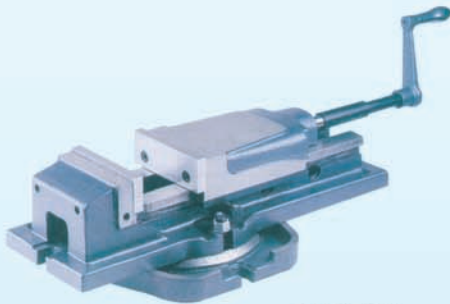
Model	Hole size		Pcs/set	shank
	in	mm		
ER16-8in(mm)	3/32	1/8 3/16 7/32	8	ISO30
	1/4	5/16 11/32 3/8		
ER25-6in(mm)	3/16	1/8 5/16	6	ISO45
	3/8	1/2 5/8		
ER25-10in(mm)	3/32	1/8 3/16 1/4	10	ISO50
	5/16	3/8 7/16 1/2		
	9/16	5/8		
ER32-6in(mm)	1/4	5/16 3/8	6	MS3
	1/2	5/8 3/4		
ER32-12in(mm)	3/32	1/8 3/16 1/4	12	MS4
	5/16	3/8 7/16 1/2		
	9/16	5/8 11/16 3/4		
ER40-8in(mm)	1/8	1/4 3/8 1/2	8	Ms5
	5/8	3/4 7/8 1		
ER40-15in(mm)	1/8	3/16 1/4 5/16	15	R8
	3/8	7/16 1/2 9/16		
	5/8	11/16 3/4 13/16		
	7/8	15/16 1		1-1/4"str.sh

J7325 MILLING CHUCK SET (DIN6388-EOC25A)

Model	Pcs/set	d		Shank	Wt(kg)
		mm	in		
R8-J7325/8in(mm)	8	3 5 8 12 15 18 22 26	1/8 1/4 3/8 1/2 5/8 3/4 7/8 1	R8	3.58
30-J7325/8in(mm)				ISO30	3.373
40-J7325/8in(mm)				ISO40	3.708
45-J7325/8in(mm)				ISO45	4.285
50-J7325/8in(mm)				ISO50	5.110
MS3-J7325/8in(mm)				MS3	3.52
MS4-J7325/8in(mm)				MS4	3.752
MS5-J7325/8in(mm)				MS5	4.646
1"-J7325/8in(mm)				1"	3.43
1-1/4"-J7325/8in(mm)				1-1/4"	3.80
R8-J7325/15in(mm)	15	3 4 5 6 8 10 12 14 15 16 18 20 22 24 26	1/8 3/16 1/4 5/16 3/8 7/16 1/2 9/16 3/4 13/16 7/8 15/16 1	R8	4.422
30-J7325/15in(mm)				ISO30	2.522
40-J7325/15in(mm)				ISO40	2.612
45-J7325/15in(mm)				ISO45	3.094
50-J7325/15in(mm)				ISO50	3.920
MS3-J7325/15in(mm)				MS3	3.32
MS4-J7325/15in(mm)				MS4	2.566
MS5-J7325/15in(mm)				Ms5	3.475
1"-J7325/15in(mm)				1"	2.18
1-1/4"-J7325/15in(mm)				1-1/4"	2.778



HYDRAULIC POWER MACHINE VISE



THP-6V

UNIT:mm/inch

Model	Jaw Width	Jaw Depth	Jaw Opening	Clamping Force(kgs/ibs)	Weight(kgs/ibs)	
					Plain	W/base
THP-4V	100	36	170	2600	16	22
	4"	1.42"	6.7"	5720	36	48.5
THP-5V	125	46	200	3500	32	42
	5"	1.81"	8.66"	7700	70.4	92.4
THP-6V	155	53.5	305	4600	58	75
	6"	2.10"	12"	10120	128	165
THP-8V	200	62	305	7200	96	125
	8"	2.44"	12"	15840	212	275

LOCKED TYPE MILLING MACHINE VISE

UNIT:mm/inch

Model	Jaw Width	Jaw Opening	Jaw Height	Swivel Base Height	Weight(ibs/kgs)	
					Plan	W/swivel Base
TLV-100E	4"(103)	4-5/6"(110)	1-11/32"(34)	1-3/8"(34.5)	33(15)	45(20)
TLV-130E	5"(128)	4-3/4"(120)	1-7/16"(36)	1-3/8"(34.5)	44(20)	57(26)
TLV-150E	6"(151)	6"(153)	1-3/4"(45)	1-5/8"(41.5)	62(28)	84(38)
TLV-150XE	6"(151)	7-1/2"(190)	1-3/4"(45)	1-5/8"(41.5)	66(30)	88(40)
TLV-200E	8"(200)	8-5/8"(218)	2-7/16"(62)	1-3/4"(44.5)	134(6)	172(78)
TLV-100PGE	4"(102)	3-15/16"(100)	1-11/32"(34)		32(14.50)	
TLV-150PGE	6"(150)	5-9/16"(150)	1-3/4"(45)		60(27)	



TLV-150E

QH-80



QB-136



Q52-160



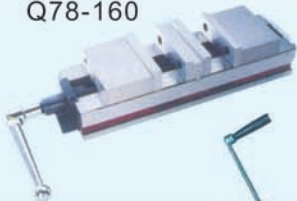
Q52-150



QM74-160



Q78-160



QW-100



Q41-100



Q19-100E



QH-TYPE MACHINE VISE

Model	Width of jaw(mm)	Height of(mm)	Max.opening(mm)	G.W/N.W(kg)
QH-80	80	30	65	30/28(4)
QH-100	100	35	80	42/40(4)
QH-125	125	40	100	18/17
QH-160	160	51	125	43/41
QH-200	200	63	160	58/56

QB-TYPE MACHINE VISE

Model	Width of jaw(mm)	Height of jaw(mm)	Max.opening(kg)	G.W/N.W(kg)
QB-136	136	36	170	22/18
QB-160	160	51	180	25/24
QB-200	200	54	220	45/43
QB-250	250	63	280	63/61
QB-320	320	81	360	112/96

Q52-TYPE HYDRAULIC MACHINE VISE

Model	Width of jaw	Height of jaw	Max.opening	N.W./G.W
Q52-160	160mm(6 ¹ / ₃ "	51mm	125mm	50/57kg
Q52-200	200mm(8"	63mm	160mm	64/72kg

Q52-TYPE HYDRAULIC POWER MACHINE VISE

Model	With of jaw	Height of jaw	Max.opening	N.W./G.W
Q52-150	152mm(6"	52mm	320mm	50/57kg

QM74-TYPE ACCU-LOCK PRECISION MACHINE VISE

Model	With of jaw	Height of jaw	Max.opening	N.W./G.W
QM74-160	160mm(6 ¹ / ₃ "	45mm	140mm	35/36kg

Q78-TYPE DOUBLE-ACTION ANGLE TIGHT MACHINE VISE

Model	With of jaw	Height of jaw	Max.opening	N.W./G.W
Q78-160	160mm(6 ¹ / ₃ "	45mm	100mm	47/54kg

QW-TYPE UNIVERSAL MACHINE VISE

Model	With of jaw	Height of jaw	Max.opening	N.W./G.W
QW-100	105mm(4"	40mm	105mm	28/33kg

Q41-TYPE DECLINABLE MACHINE VISE

Model	Width of jaw	Height of jaw	Max.opening	N.W./G.W
Q41-100	100mm(4"	41mm	80mm	19/24kg
Q41-125	125mm(5"	46mm	100mm	29/35kg
Q41-125L	125mm(5"	46mm	140mm	29/35kg
Q41-160	160mm(6"	50mm	125mm	43/50kg

Q19-TYPE LEADSCREW LEADING-IN DRILLING MACHINE VISE

Model	Width of jaw	Height of jaw	Max. opening	N. W. / G. W
Q19-85E	85mm(3 ¹ / ₃ "	30mm	60mm	3/3.2kg
Q19-100E	100mm(4"	30mm	750mm	4.5/4.7kg
Q19-120E	120mm(4 ⁴ / ₅ "	30mm	100mm	6.2/6.4kg

FACING—BORING HEAD

Model	F212A(Z11150)	F213A	F214A
Max. facing and boring dia(mm)	150	350	450
Dia. of tool post holes in slide(mm)	18	22	22
Fine feed per graduation(mm)	0.005	0.005	0.005
Weight of head without shank(kg)	2.9	6.1	7.8
Max. stroke of slide(mm)	± 15	± 25	± 25
Self-acting feed per revolution(mm)	0.02 0.04 0.06 0.08 0.10 0.12	0.03 0.06 0.09 0.12 0.15 0.18	
Max. dia of slide(mm)	90	120	168
Height of head without shank	87.5	118	
The length of sliding block(mm)	75	105	160
The width of sliding block(mm)	70	90	90
Type of taper shank	R8, MT3—MT6, MW3—MW6 TZ10, ISO30, 40, 45, 50, etc		

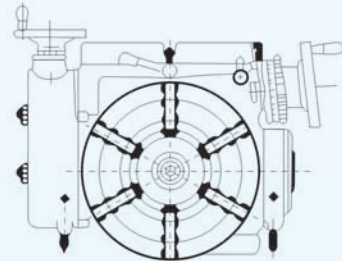
Typical applications and further details on request!



TILTING ROTARY TABLE

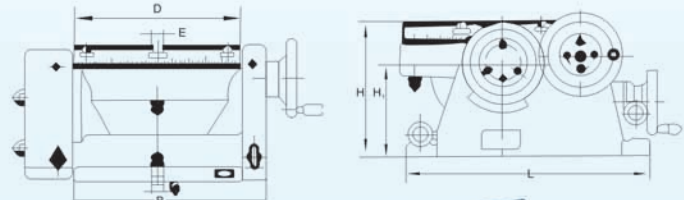
UNIT:mm/inch

Model	D	H	H ₁	B	L	F	E	D	MT	Raito	Net weight kg lbs
TSK250	250 9.84	205 8.01	140 5.51	260 10.24	210 12.2	14 0.55	12 0.47	30 1.18	NO.3	1.90	78 171.8
TSK320	320 12.60	255 10.04	175 6.89	332 13.07	380 14.96	18 0.71	14 0.55	40 1.57	NO.4	1.90	133 293.3



INDEX FEATURE:

Model	TOLERANCE	
	TSK250	TSK320
Flatness of table surface (No allowing convex)	0.020 0.0008	0.025 0.001
Axial run-out of table surface	0.020 0.0008	0.025 0.001
Parallelism between table surface and bottom surface	0.030 0.0012	0.040 0.0016
Radial run-out of center line of spindle taper hole	a)0.10 0.0004 b)0.020 0.0008	
Parallelism between center line of table and lateral face of Locating key	0.020 0.0008	0.030 0.001
Dividing accuracy	60°	

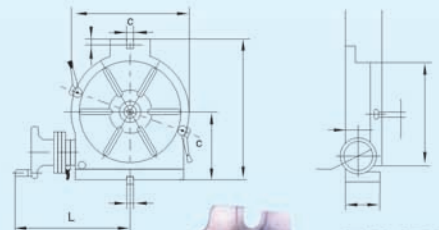


TSK320

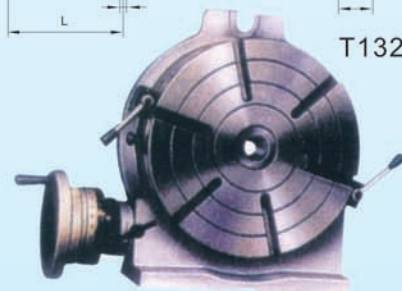


T 13 SERIES ROTARY TABLE (INCH)

Model	T13200B	T13250B	T13300B
Table Dia. (mm)	200	250	300
Taper of spindle bore (Morse)	3MT	3MT	4MT
Locating bore (Dia × depth) (mm)	φ 30 × 6	φ 30 × 6	φ 40 × 10
Center height (mm)	135	165	195
Width of T-slot (mm)	12	12	14
Adjacent angle of table T-slot (°)	90°	60°	60°
Width of locating key (mm)	16	16	16
Module of worm gear (mm)	1.5	2	2.5
Ratio of worm gear (mm)	1:90	1: 90	1:90
Mlin. readout of vernier	10"	10"	10"
Max. bearing (with table Hor.) (kg)	150	200	250
Max. bearing (with table Vert.) (kg)	75	100	125

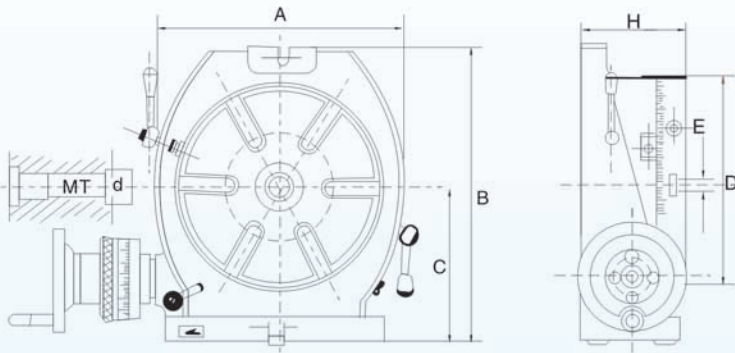


T13250B



HORIZONTAL/VERTICAL ROTARY TABLE

TSL200

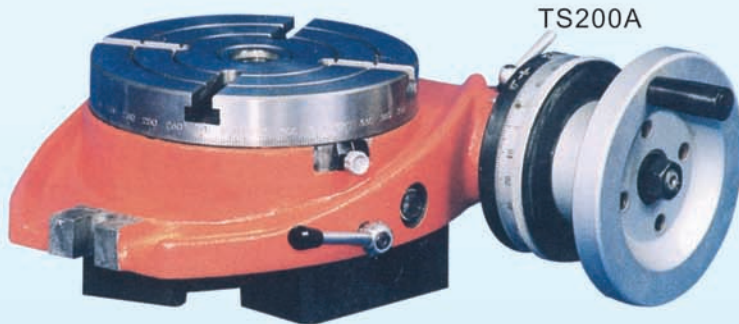


UNIT:mm/inch

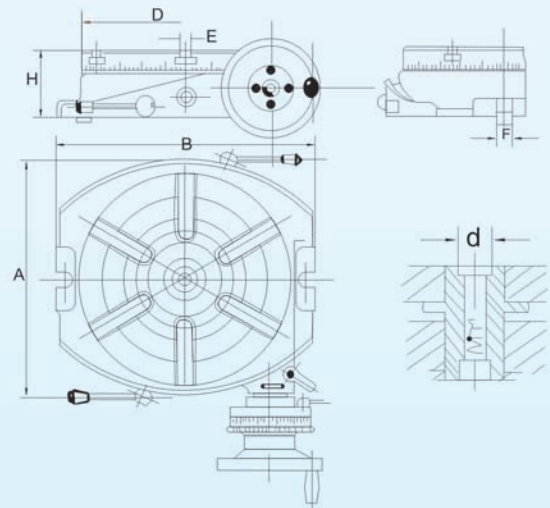
- It can be used at horizontal or vertical [0°, 90°];
- When it is used at vertical and a tailstock is table it is similar to a conventional dividing head in performance;
- Type TSL 200 and TSL160 have 4 T-slots, TSL250, TSL320 and TSL400 have 6 T-slots;
- Reading of vernier: 10".

Model	D	H	A	B	C	E	E	MT	d	Ratio	N.W kg/lbs
TSL160	160 6.30	85 3.35	196 7.72	242 9.53	125 4.92	10 0.39	12 0.47	12 0.47	25 0.98	1:90	23 50.7
TSL200	200 7.87	100 3.94	236 9.34	285 11.22	150 5.91	12 0.47	14 0.55	14 0.55	30 1.18	1:90	30.5 67.2
TSL250	250 9.84	110 4.33	286 11.26	328 12.91	170 6.69	12 0.47	14 0.55	14 0.55	30 1.18	1:90	44 96.9
TSL320	320 12.60	120 4.72	360 14.17	400 16.14	210 8.27	14 0.55	18 0.71	18 0.71	40 1.57	1:90	75 164
TSL400	400 15.75	150 5.91	450 17.72	525 20.67	260 10.24	14 0.55	18 0.71	18 0.71	40 1.57	1:90	145 319.4

VERTICAL ROTARY TABLE



TS200A



UNIT:mm/inch

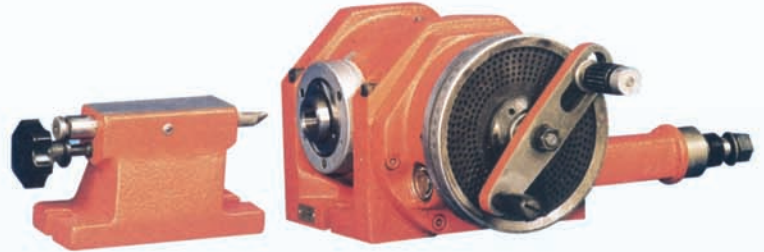
Type	D	A	B	F	E	H	d	MT	Ratio	N.W kg/lbs
TS160A	160 6.30	196 7.72	260 10.24	12 0.47	10 0.39	75 2.95	25 0.98	NO.2	1: 90	16.5 36.3
TS200A	200 7.87	236 9.29	290 11.42	14 0.55	12 0.47	80 3.15	30 1.18	NO.3	1: 90	20.5 45.2
TS250A	250 9.84	289 11.26	330 18.99	14 0.55	12 0.47	90 3.54	30 1.18	NO.3	1: 90	33.5 73.8
TS320A	320 12.60	360 14.17	410 16.14	18 0.71	14 0.55	110 4.33	40 1.57	NO.4	1: 90	63 138.8
TS400A	400 15.75	450 17.72	530 20.87	18 0.71	14 0.55	140 5.51	40 1.57	NO.4	1: 90	125 275.3
TS500A	500 19.69			22 0.87	18 0.71	140 5.51	50 1.97	NO.5	1: 90	135 297.4
TS630A	630 24.80			22 0.87	18 0.71	140 5.51	50 1.97	NO.5	1: 90	155 341.4

Tables dia 160,200,4T-Slots

Tables dia 250,320,400,500,630,6T-slots

UNIVERSAL DIVIDING HEAD

- This dividing head is a revised model with new design. In comparison with old model FW universal dividing head the new model has a good looking and is available to carry out indexing for any desired angles otherwise, a face plate can be directly mounted onto the spindle nose.
- This dividing head is one of accessories for milling machine .It can help the machine in dividing the workpieces held between two centers or on a chuck into any desired angles. With the centers or on a chuck into any desire dangles. With the help of it, grooves; slots; gears; helical gears; Archimedes cams and helical curves can be finished on the machines.



UNIT:mm/inch

Model	FW80	F11 100A	F11 125A	F11 160A
Center height	80 (3.15)	100 (3.94)	125 (4.94)	160 (6.30)
Tilting angle of the spindle	$\geq 90^\circ; \geq 5^\circ$			
Rotating angle of the spindle for one complete revolution of the dividing handle	9°			
Min.value of the vernier	10"			
Worm gear ratio	1:40			
Diameter of a spindle register taper	$\Phi 36.541$ $\Phi 1.441$	$\Phi 41.275$ $\Phi 1.63$	$\Phi 53.975$ $\Phi 2.13$	
Spindle taper bore(Morse)	MT3		MT 4	
Width of the locating key	14 (0.55)		18 (0.71)	
Hole No.of hole plate	first face	24, 25, 28, 30, 34, 38, 38, 39, 41, 42, 43		
	second face	46, 47, 49, 51, 53, 54, 57, 58, 59, 62, 66		
Module of change gears	1.5 (0.06)		2 (0.08)	
Teeth No.of change gears	25, 25, 30, 35, 40, 50, 55, 60, 70, 80, 90, 100			
Individual indexing error of the spindle for one complete revolution of dividing handle	60°	$\pm 45^\circ$		
Accumulative indexing error in any each of the four quadrants	$\pm 1^\circ$			



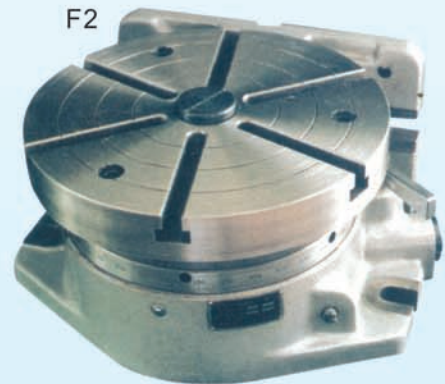
DIRECT DIVIDING HEAD

- This Direct Dividing Head can be used in either a horizontal and vertical position;
- Using one of the masking plates provided 16 pieces the head can carry out many dividing functions;
- Indexing of 2,3,4,6,8, 12 and 24 divisions can be rapidly and simply carried out.
- The 3-jaw chuck also simplifies the indexing of some workpieces.

INDEXING

- For indexing work loosen the clamping lever for spindle and turn the lever for latch in a clockwise direction.After this, rotate the work -piece manually to desired position and clamping of spindle;
- While the changing of division is required remove the thrust plate at the rear of spindle and change the masking plate required.Having finished this, plate required. Having finished this,replace the thrust plate ;
- Teeth numbers of masking plates:2,3,4,6,8and 12.

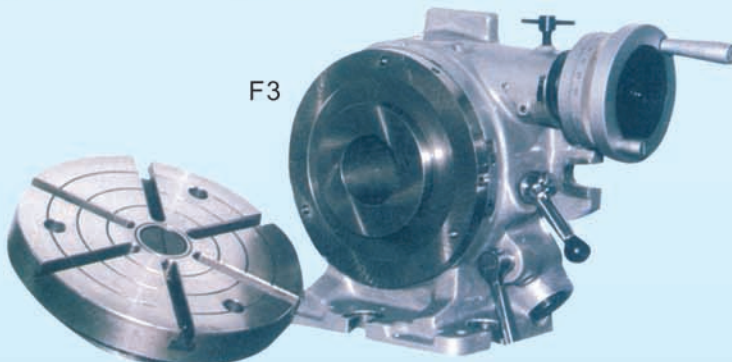
F2



UNIT:mm/inch

Model	F2	F3
Height of centre (horizontal)	149.25 (5.90)	150 (5.19)
Distance between the end face of chuck and bottom	173 (6.81)	126 (4.96)
Divisions	2, 3, 4, 6, 8, 12, 24	2, 3, 4, 6, 8, 12, 24 and any dividing
Dia.of chuck	210 (8.27)	210 (8.27)

F3



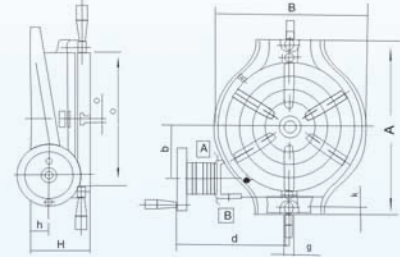
VERTICAL ROTARY TABLE

UNIT:mm/inch

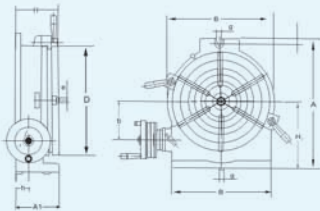
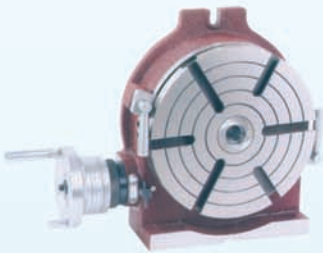
Model	Table		Base Dimension		Width of T-Slot		Bolt Slots	Center Sleeve	Worm Bear ratio	Gross weight kgs/lb
	Outer Diameter	Height	A	B	e	Type				
	D	H					g			
TRT-6	150	78	210	184	10	⊕	10	MT-2	90:1	10.0
	5.91	3.07	8.27	7.24	0.39		0.39			22.0
TRT-8	200	105	280	250	12	⊕	14	MT-3	90:1	25.0
	7.87	4.31	11.02	9.84	0.47		0.55			55.1
TRT-10	250	115	340	300	12	*	16	MT-3	90:1	37.0
	9.84	4.53	13.39	11.81	0.47		0.63			81.5
TRT-12	300	135	400	364	14	*	18	MT-4	90:1	60.0
	11.81	5.32	15.75	14.33	0.55		0.71			132.2
TRT-14	350	140	460	420	14	*	18	MT-4	90:1	85.0
	13.78	5.51	16.54	16.54	0.55		0.71			187.3



Model No. TRT-10



Model No TRT-HV10

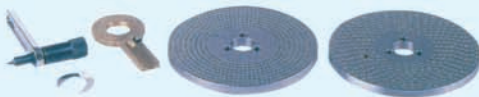


HORIZONTAL/VERTICAL ROTARY TABLE

UNIT:mm

Model	Table		Base Dimension			Width of T-Slot		Bolt Slot	Center Sleeve	Gross Weight kgs	
	Outer Diameter	Height			e	Type					
	D	A1	H	H ₁	A	B		g			
TRT-HV6	150	78	83	100	200	160	12	⊕	16	MT-2	12
TRT-HV8	200	100	405	135	265	220	14	⊕	17	MT-3	30
TRT-HV10	250	110	115	165	325	280	14	*	17	MT-3	45
TRT-HV12	300	128	132	195	391	330	16	*	18	MT-4	82
TRT-HV14	350	128	138	230	450	390	16	*	18	MT-4	95
TRT-HV16	406	150	155	255	500	430	16	*	18	MT-4	135

★ DIVIDING PLATES(OPTIONAL)



Dividing Plate set includes index plate, crank handle, 3 pcs screw, sector, and U-washer.

Model	Used of Model
TDP-1	TRT-HV6/TRT-6

Number of the holes of Dividing Plates	
A-Plate	15, 16, 17, 18, 19, 20
B-Plate	21, 23, 27, 29, 31, 33
C-Plate	37, 39, 41, 43, 47, 49

Model	Used of Model
TDP-2	TRT-HV8, 10, 12, 14/TRT-8, 10, 12, 14

Number of the holes of Dividing Plates	
A-Plate	26, 30, 34, 38, 41, 44, 47, 51, 57
	28, 2, 37, 9, 3, 46, 49, 53, 59
B-Plate	16, 67, 71, 77, 81, 87, 91, 97
	63, 69, 73, 79, 83, 89, 93, 99

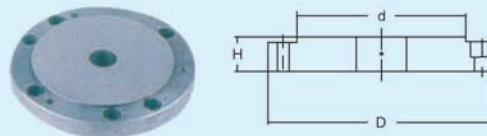
★ TAILSTOCK (OPTIONAL)

Model	Center Height		Used of Model
	Max.	Min.	
TTS-1	131	97	TRT-HV6
TTS-2	210	130	TRT-HV8, 10, 12
TTS-3	300	210	TRT-HV14



TTS-1

★ FLANGE (OPTIONAL)

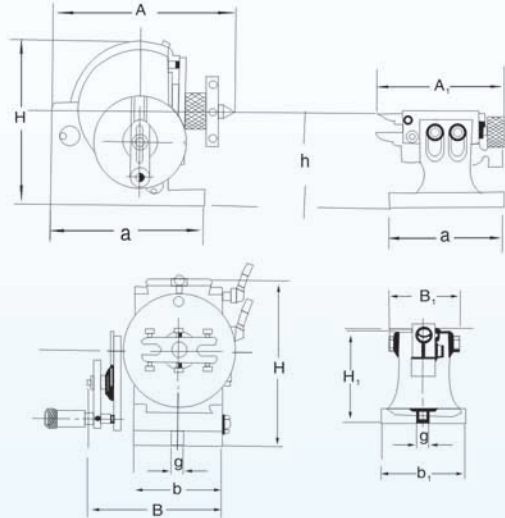
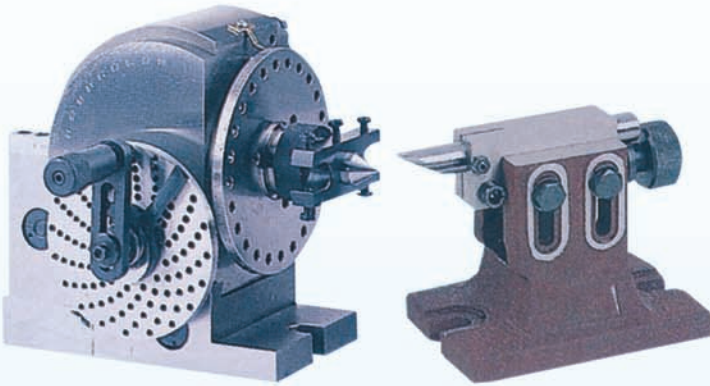


TTS-2/TTS-3

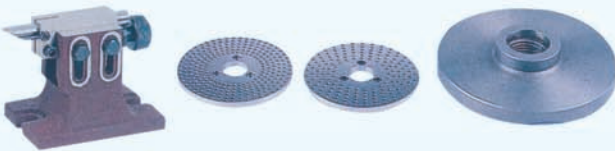
Model	D	d	H	Used of Model
TTS-1	138	100	20	TRT-HV6, 8 TRT-6, 8
TTS-2	170	130	21	TRT-HV8, 10 TRT-8, 10
TTS-3	195	155	24	TRT-HV10, 12, 14 TRT-10, 12, 14

SEMI-UNIVERSAL DIVIDING HEAD

Model No.TBS-0



Standard Accessories



- Number of the holes of Dividing plates
 A- Plate 15,16,17,18,19,20,
 B-Plate 21,23,27,29,31,33
 C-Plate 37,39,41,43,47,49
- THREAD SPINDLE:TBS-0 1-1/2"-8 TPI
 TBS-1 1-1/2"-8 TPI

NO.0 NO.1 HEAD-STOCK

UNIT:mm

Model	A	B	H	h	a	b	g	Taper of center	Diameter of spindle hole
TBS-0	193	131	173	100	166	90	16	B&S No.7	18
TBS-1	242	168	220	128	206	113	16	B&S No.9	20

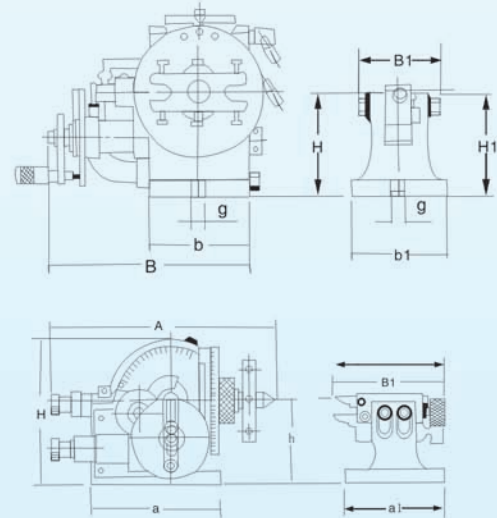
NO.0 NO.1 TAIL-STOCK

UNIT:mm

Model	A ₁	B ₁	H ₁	h	a ₁	b ₁	g ₁
TBS-0	175	87	102	100	130	92	16
TBS-1	183	87	137	128	158	110	16

UNIVERSAL DIVIDING HEAD

Model No.TBS-2



THREAD SPINDLE:2-1/4"-8TPI



NO.2 HEAD-STOCK

UNIT:mm

Model	A	B	H	h	a	b	g	Taper of Ceter	Diameter of spindle hole
TBS-2	370	280	236	133	212	134	16	B&S No.10	25.4

NO.2 TAIL-STOCK

UNIT:mm

Model	A ₁	B ₁	H ₁	h	a ₁	b ₁	g ₁
TBS-2	183	87	156	133	175	122	16

Model	Gross Weight	Meas CFT	Applicable Chuck
TBS-0	21kgs	0.8	4"or 5"
TBS-1	30kgs	1.3	5"or 6"
TBS-2	73kgs	3.5	6"7"or 8"

PERMANENT MAGNETIC CHUCKS

It can be used for processing various magnetic conduction workpieces, especially thin and small pieces in surface grinder, tool grinder and electric sparks machine tools.



X41 150×300

Model	British standard	Dimensions(mm)			Magnetic (N/cm ²)	Weight (kg)
		L	W	H		
X41 100×175	4×7"	175	100	60	≥60	6
X41 100×260	4×10"	260	100	60	≥60	7.3
X41 120×254	5×10"	254	120	60	≥60	10
X41 150×300	6×12"	300	150	60	≥80	17
X41 150×350	6×14"	350	150	60	≥80	19
X41 150×400	6×16"	400	150	60	≥80	20
X41 200×460	8×18"	460	150	60	≥80	29
X41 200×400	8×16"	400	200	60	≥80	31
X41 200×460	8×18"	450	200	60	≥80	34
X41 200×500	8×20"	500	200	60	≥80	36
X41 200×560	8×22"	560	200	60	≥80	42
X41 200×600	8×24"	600	200	80	≥80	54.5
X41 250×500	10×20"	500	250	60	≥80	51
X41 250×600	10×24"	600	250	85	≥80	68.5

POWERFUL PERMANENT MAGNETIC CHUCKS

It has magnetic strength of 12~15kg/cm², suitable for powerful milling and grinding.



X91 200×400

Model	British standard	Dimensions(mm)			Magnetic (N/cm ²)	Weight (kg)
		L	H	W		
X91 120×254	5×10"	254	120	75	≥120	13.6
X91 150×300	6×12"	300	150	75	≥120	19
X91 150×350	6×14"	350	150	75	≥120	21
X91 150×400	6×16"	400	150	75	≥120	25.5
X91 150×460	6×18"	460	150	75	≥120	28
X91 200×400	8×16"	400	200	80	≥120	35
X91 200×460	8×18"	460	200	80	≥120	40
X91 200×500	8×20"	500	200	80	≥120	43.5
X91 200×560	8×22"	560	200	80	≥120	48
X91 200×600	8×24"	600	200	80	≥120	53
X91 250×500	8×20"	500	250	80	≥120	55
X91 250×600	8×24"	600	250	85	≥120	69

POWERFUL DENSE PERMANENT MAGNETIC CHUCKS



XM91 200×400

Model	British standard	Dimensions(mm)			Magnetic (N/cm ²)	Weight (kg)
		L	W	H		
XM91 120×254	5×10"	254	120	55	≥100	14.5
XM91 150×150	6×6"	150	150	55	≥100	10.5
XM91 150×300	6×12"	300	150	62	≥100	20
XM91 150×350	6×14"	350	150	62	≥100	24
XM91 150×400	6×16"	400	150	62	≥100	28
XM91 150×450	6×18"	450	150	62	≥100	32
XM91 200×400	8×16"	400	150	62	≥100	38
XM91 200×450	8×18"	450	200	62	≥100	43
XM91 200×500	8×20"	500	200	62	≥100	47

PERMANENT MAGNETIC LIFTERS

Permanent magnetic Lifters use new type and high performance magnetic material. It is characterized by its smaller volume and lighter weight, powerful lifting effort and few of residual magnetism, easy and safe to operate, without electricity in operation, long-period effort, They have been used widely to lift and transport the steel and iron.



QS-50



YQ-300

Model	Rated Lifting(kg)	Max. lifting(kg)	Dimensions(mm)			Weight (kg)
			L	W	H	
QS50	50	≥100	170	130	25	2.5

Model	Rated Lifting(kg)	Max. lifting(kg)	Dimensions(mm)			Weight (kg)
			L	W	H	
YQ100	100	≥200	150	80	160	7
YQ200	200	600	190	110	220	15
YQ300	300	900	230	120	210	22
YQ500	500	≥1000	290	145	250	42
YQ1000	1000	≥2000	410	150	310	76
YQ2000	2000	≥4000	460	180	350	118

ECONOMY DEMAGNETIZER TDZ-E1

- Suitable for general component parts, attachments, tools, punches, drills, dies, etc for fixed way demagnetization.
- After operating by 20 mins, it must be turned off for 20 minutes.

Model	Capacity	Duty Cycle	Input Voltage	Workingsurface		Height	Weight Kgs/lbs
				Width	Length		
TDZ-K2	330VA	100%	AC100-120V 60Hz	15mm (6")	208mm (8")	134mm (5.28")	8.7/19
TDZ-E1	220VA	50%	AC200-200V 50Hz	113mm (4.45")	176mm (6.93")	85mm (3.35")	4.1/9

STANDARD TYPE DEMAGNETIZER TDZ-K2

- Effectively removes surface residual magnetism from high speed steelnickel, chrome, steel, spring steel, or die steel by sliding the item to bedemagnetized over surface of the unit.
- Designed for high performance and continuous operation.



TDZ-K2



TDZ-E1

Any specifications may be changed without notice.

MACHINE TOOL ACCESSORIES

 R8 COLLETS	 R8 EMERGENCY COLLET	 R8 EXTENDING COLLET	 R8 COLLET DRAW BAR	 5C COLLETS	 5C EMERGENCY COLLET	 5C EXPANDING COLLET	 5C STEP COLLETS
 5C FIXTURE MOUNTS	 5C COLLET ADJUSTABLE BACKSTOP	 5CU COLLET ADJUSTABLE BACKSTOP	 5C COLLET DRAW BAR	 5C EXTENDING COLLET	 5ST COLLETS	 CM6125 COLLETS	 SHARPENER COLLETS
 3AT COLLETS	 3AT STEP COLLETS	 3C COLLETS	 3C STEP COLLETS	 DIN6341 COLLETS	 B&S21 COLLETS	 25B COLLETS	 17A COLLETS
 TWO SIDES COLLETS	 DIN6343 CLAMPING COLLETS	 DIN6344 FEEDING COLLETS	 CLAMPING COLLETS	 FEEDING COLLETS	 FEEDING COLLETS	 SMALL TYPE CIRCUIT COLLETS	 DA COLLETS
 SPRING COLLETS	 SPRING COLLETS	 7:24 COLLETS	 F3 DRILL -TAP FIXTURE	 EXPANDING MANDRELS	 EXPANDING MANDRELS	 EXPANDING MANDRELS	 EXPANDING MANDRELS AND SLEEVES
 LATHE MANDRELS	 EXPANDING ARBORS	 R8 TO MS SLEEVES	 R8 TO MS SLEEVES	 7:24 TO MS ADAPTER (END OPENING TYPE)	 7:24 TO MS ADAPTER (DRAW BAR TYPE)	 7:24 TO MS ADAPTER (WITH TANG)	 7:24 TO 7:24 ADAPTER
 7:24 TO 7:24 ADAPTER (HOLE THROUGHING TYPE)	 7:24 TO 7:24 ADAPTER	 7:24 TO R8 ADAPTER	 MORSE TAPER	 273 MORSE TAPER SLEEVES	 274 MORSE TAPER SLEEVES	 MORSE TAPER SLEEVES	 277 MORSE TAPER SLEEVES
 EXTENSION SOCKET WITH MS.HOLE	 EXTENSION SOCKET WITH MS.HOLE	 EXTENSION SOCKET WITH MS.HOLE	 DIN1806 MORSE TAPER SLEEVES	 SOLID SOCKET WITH R8	 SOLID SOCKET WITH MS HOLE(WITH TANG)	 SOLID SOCKET WITH MS HOLE(EXPENDED)	 STRIGHT TO 7:24 SLEEVES
 R8 DRILL CONNECTING ARBORS	 STRAIGHT SHANK DRILL CONNECTING ARBORS	 7:24 DRILL CONNECTING ARBORS	 MORSE TAPER DRILL CHUCK ARBORS WITH DRAW BAR	 MORSE TAPER DRILL CHUCK ARBORS WITH TANG	 MORSE DRILL CHUCK ARBORS	 TG COLLETS	 ER SERIES COLLETS WITH STANDARD DIN6499B
 ER32G TAPPING COLLET	 ER32C COOL COLLET	 ER NUTS	 ER NUTS	 ER SPANNER	 ER COLLET FIXTURE	 ER COLLETS	 EOCB COLLETS

MACHINE TOOL ACCESSORIES

 Item No.100081 EOC CLAMPING NUT	 Item No.100082 EOC SPANNER	 Item No.100083 J7616 MILLING CHUCK	 Item No.100084 J7616A MILLING CHUCK	 Item No.100085 JM71 STRAIGHT SHANK COLLETS	 Item No.100086 MILLING CHUCK SET	 Item No.100087 QUICK ACTION MILLING CHUCK	 Item No.100088 TAPER COLLETS
 Item No.100089 KEYLESS DRILL CHUCKS WITH TAPER MOUNTED	 Item No.100090 J41 TAP CHUCK	 Item No.100091 J52 TAP CHUCK	 Item No.100092 J45 TA CHUCK	 Item No.100093 TAPPING COLLETS	 Item No.100094 REVERSIBLE TAP HOLDER	 Item No.100095 MORSE TAPER DRILLING (TAPER TAPPING) COLLET SLEEVES	 Item No.100096 390 QUICK CHANGE CHUCKS
 Item No.100097 391 QUICK CHANGE CHUCK	 Item No.100098 J4013 DRILL-TAP FIXTURE	 Item No.100099 TAP WRENCHES	 Item No.100100 T HANDLE TAP WRENCHES	 Item No.100101 TYPE F1 BORING HEADS	 Item No.100102 TYPE F2 BORING HEADS AND BORING SHANK	 Item No.100103 UNIVERSAL TILTING VISE	 Item No.100104 ELECTRODE HOLDERS
 Item No.100105 VERTICAL OR HORIZONTAL TURNING WORKTABLE	 Item No.100106 VERTICAL OR HORIZONTAL TURNING WORKTABLE	 Item No.100107 ADJUSTING SWIVEL TABLE	 Item No.100108 580 PARALLEL BLOCK	 Item No.100109 TYPE B V-BLOCK & CLAMP SET	 Item No.100110 MORSE TAPER CARBIDE INDEXABLE END MILLING CUTTER	 Item No.100111 7:24 SHANK CARBIDE INDEXABLE END MILLING CUTTER	 Item No.100112 STRAIGHT SHANK CARBIDE INDEXABLE END MILLING CUTTER
 Item No.100113 R8 CARBIDE INDEXABLE END MILLING CUTTER	 Item No.100114 CARBIDE INDEXABLE FACE MILLING CUTTER	 Item No.100115 HOLLOW PUNCH	 Item No.100116 MORSE TAPER (STRAIGHT) SHANK SHELL REAMER ARBORS WITH JK TYPE	 Item No.100117 SHELL REAMER ARBORS MORSE TAPER SHANK SHELL REAMER ARBORS STRAIGHT SHANK	 Item No.100118 PRECISION 3-JAW CHUCKS	 Item No.100119 NC SHELL MILL ARBORS	 Item No.100120 NC DRILL CHUCK ARBORS
 Item No.100121 NC BORING SHANK	 Item No.100122 ANGULAR MOUNTING SQUARE BITE BORING ARBORS	 Item No.100123 NC END MILL ADAPTERS	 Item No.100124 NC MORSE TAPER (WITH TANG)	 Item No.100125 NC MORSE TAPER (WITH DRAW BAR)	 Item No.100126 NC 7:24 TAPER	 Item No.100127 COMBI SHELL END MILL ARBORS	 Item No.100128 NC MILLING CHUCK ARBORS
 Item No.100129 ANSI/ASME BD.50-1985	 Item No.100130 ELECTRONIC EDGE FINDERS MECHANICAL EDGE FINDER	 Item No.100131 DIN317 MORSE SHANK PULLER	 Item No.100132 HALF AUTOMATIC MORSE SHANK PULLER	 Item No.100133 SCREW JACK	 Item No.100134 STRAIGHT BLOCK SET-PL TYPE	 Item No.100135 LOCATION PLATE	 Item No.100136 TAPER BLOCK SET ROUND TPN TYPE
 Item No.100137 TAPER BLOCK SET-TBL TYPE	 Item No.100138 MORSE DRILL CHUCK ARBORS	 Item No.100139 MORSE END MILL ADAPTERS	 Item No.100140 MORSE END MILL ADAPTERS	 Item No.100141 R8 END MILL ADAPTERS	 Item No.100142 B&S TAPER END MILL ADAPTER	 Item No.100143 7:24 END MILL ADAPTER	 Item No.100144 5C END MILL ADAPTER
 Item No.100145 R8 SHELL END MILL ARBORS	 Item No.100146 STRAIGHT SHANK SHELL END MILL ARBORS	 Item No.100147 7:24 SHANK SHELL END MILL ARBORS	 Item No.100148 MORSE TAPER SHELL END MILL ARBORS	 Item No.100149 MORSE TAPER SHELL END MILL ARBORS	 Item No.100150 STRAIGHT SHANK MILLING MACHINE ARBORS	 Item No.100151 R8 STUB MILLING MACHINE ARBORS	 Item No.100152 MS STUB MILLING MACHINE ARBORS
 Item No.100153 7:24 MILLING MACHINE ARBORS	 Item No.100154 NUTS	 Item No.100155 ARBOR SPACERS	 Item No.100156 ARBOR RUNNING BUSHINGS	 Item No.100157 R8 COMBI SHELL END MILL ARBORS	 Item No.100158 MORSE TAPER COMBI SHELL END MILL ARBORS	 Item No.100159 7:24 COMBI SHELL END MILL ARSARBORS	 Item No.100160 ATTACHMENT OF COMBI SHELL END MILL ARBORS

MACHINE TOOL ACCESSORIES

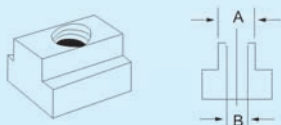
Item No.100161  DEAD CENTER	Item No.100162  HALF-NOTCHED CENTER	Item No.100163  CARBIDE HALF-NOTCHED CENTER	Item No.100164  CARBIDE CENTER	Item No.100165  BULL NOSE CENTER	Item No.100166  PRECISION LIVE CENTER	Item No.100167  PRECISION LIGHT-DUTY LIVE CENTER	Item No.100168  MEDIUM-DUTY LIVE CENTER
Item No.100169  MEDIUM-DUTY LIVE CENTER	Item No.100170  MEDIUM-DUTY MULTI-PURPOSE LIVE CENTER	Item No.100171  HIGH-SPEED MEDIUM-DUTY MULTI-PURPOSE LIVE CENTER	Item No.100172  PRECISION HEAVY DUTY LIVE CENTER	Item No.100173  MEDIUM-DUTY LIVE CENTER(EXTENDED)	Item No.100174  TYPE A 5C COLLET FIXTURE	Item No.100175  TYPE B 5C COLLET FIXTURE	Item No.100176  TYPE C 5C COLLET FIXTURE
Item No.100177  TYPE D 5C COLLET FIXTURE	Item No.100178  5C COLLET BLOCK SET	Item No.100179  5C FIXTURE	Item No.100180  PF70/5C SPIN INDEX	Item No.100181  PF100B/5C HORIZONTAL VERTICAL COLLET INDEX	Item No.100182  TYPE 287 END MILL SHARPENER	Item No.100183  TYPE 235 END MILL SHARPENER	Item No.100184  AIR BEARING
Item No.100185  RADIUS ATTACHMENT	Item No.100186  UNIVERSAL SHARPENER	Item No.100187  5C SHARPENER	Item No.100188  UNIVERSAL DRESSER	Item No.100189  RADIUS AND ANGLE DRESSER	Item No.100190  OPTICAL UNIVERSAL WHEEL DRESSER	Item No.100191  SINE WHEEL DRESSER	Item No.100192  THE TOOLING PRECISION VISES
Item No.100193 MANUAL TURNING TOOLS 7pcs/set: 2mm,16mm,20mm, 25mm,32mm 9pcs/set: 08mm,10mm,16mm 	Item No.100194  PRECISION TOOL VISE	Item No.100195  PRECISION MODULAR VISES	Item No.100196  PRECISION MODULAR VISES WITH SWIVEL BASE	Item No.100197  QUICK ACTION PRECISION MODULAR VISES	Item No.100198  QUICK ACTION PRECISION MODULAR VISES WITH SWIVEL BASE	Item No.100199  SWIVEL BASE SERIES	

POWER TABLE FEED

Directions of feed	Model	Torque
X Axis (Longitudinal feed)	AS235	15N.M(135LBS)
	AS250	17N.M(140LBS)
Y Axis (Cross feed)	AS235-W (Horizontal)	14N.M (135LBS)
	AS235	15N.M(135LBS)
Z Axis (Knee-Lift feed)	AS250	17N.M (150LBS)
	AS250	17N.M (150LBS)
Other specification: Speed Range Rapid Speed	0-135R.P.M 180R.P.M	0-140R.P.M 200R.P.M



52-PC STEEL CLAMPING KIT



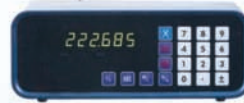
Model	Table Slot A	Stud Size B	Block Size	Gross weight (lbs/kgs)
C-103A	1/16"	3/8"-16	1"	17.6 (8)
C-103B	1/2"			
C-104A	9/16"	1/2"-13	1"	25.8 (11.7)
C-104B	5/8"			
C-105A	11/16"	5/8-11	1"	32 (14.5)
C-105B	3/4"			
CK-8	10mm	M8-1.25P	25mm	15.4(7)
CK-10	12mm	M10-1.25P		18.7(8.5)
CK-12	14mm	M12-1.75P		24.2(11)
CK-14	16mm	M14-2.0P		27.5(12.5)
CK-16	18mm	M16-2.0P		31.9(14.5)
CK-18	20mm	M18-2.5P		68.2(31)

DIGITAL READOUT SYSTEM

1. DIGITAL READOUT UNIT

Model	SDS3	SDS5	SDS6
Number of axes	1	1/2/3/4/5/6	2/3
Resolution (μm)	0.5/1/5	0.1/0.2/0.5/1	0.5/1/5

SDS3



SDS5



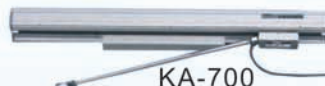
SDS6



2. SEALED LINEAR ENCODER SCALE



KA-800



KA-700



KA-500



KA-900



KA-600



KA-300



KA-200

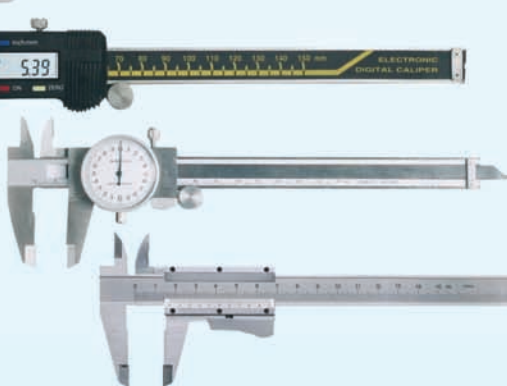
Model	KA-200	KA-300	KA-500	KA-600	KA-700	KA-800	KA-800A	KA-900	KA-300NC	KA-600NC
Measure length(mm)	70-270	70-1020	70-470	1000-3000	170-1240	6000-100000	3000-6000	50	70-1540	1000-3000
Resolution(μm)	0.5/1/5	0.5/1/5	0.5/1/5	0.5/1/5	5	5	5	0.5/1/5	0.1/0.2/0.5/1	0.1/0.2/0.5/1

MEASURING TOOLS



VERNIER CALIPERS

OUTSIDE MICROMETER



DIAL INDICATOR

VERNIER HEIGHT GAUGE

CUTTING TOOLS



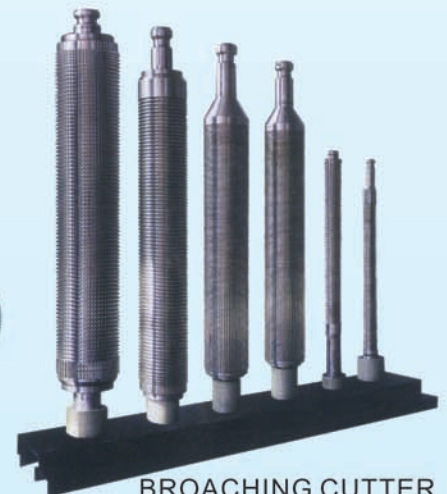
DRILL



MILL CUTTER



GEAR CUTTER



BROACHING CUTTER

Specification will be supplied on request!

CYLINDER BORING MACHINE



T806
T807



T808A



T8014A



T8016A

Model	T806	T807	T806A	T808A	T8014A	T8016A
Boring diameter	Φ39-Φ60 mm	Φ39-Φ70 mm	Φ46-Φ80 mm	Φ50-Φ85 mm	Φ65-Φ140 mm	Φ80-Φ165 mm
Max. boring depth	160 mm	160 mm	160 mm	170 mm	300 mm	400 mm
Spindle speed	486 r/min	486 r/min	486 r/min	394 r/min	250;380 r/min	200;300 r/min
Spindle feed	0.09 mm / r	0.09 mm / r	0.09 mm / r	0.10 mm / r	0.11 mm / r	0.12 mm / r
Spindle rapid reset					636 mm / min	780 mm / min
Motor	Voltage	220/380 V	220/380 V	220/380 V	220/380 V	220/380 V
	Power	0.25 Kw	0.25 Kw	0.25 Kw	0.25 Kw	0.25/0.37 Kw
	Speed	1440 r/min	1440 r/min	1440 r/min	1440 r/min	1440 r/min
Overall dimensions	330 × 400 × 1080mm	330 × 400 × 1080mm	330 × 400 × 1080mm	350 × 272 × 725 mm	320 × 330 × 850 mm	360 × 345 × 1100 mm
Packing dimensions	490 × 520 × 1290mm	490 × 520 × 1290mm	490 × 520 × 1290mm	460 × 440 × 870 mm	540 × 470 × 1030 mm	500 × 490 × 1270 mm
Weight	80 Kg	80 Kg	80 Kg	48 Kg	62 Kg	85 Kg

T8018A
T8018B



T8018C



CYLINDER BORING MACHINE

Model	T8018A	T8018B	T8018C
Range of boring diameter	Φ30-Φ180 mm		Φ42-Φ180 mm
Max. boring depth	450 mm		650 mm
The rotational speed of spindle	140-610 r/min	175,230,300,350,460,600 r/min	175,230,300,350,460,600 r/min
Spindle feed	0.05,0.10,0.20 mm		0.05,0.10,0.20 mm
Spindle travel	500 mm/r		800 mm/r
The high rising speed of spindle	2.65 m/min		2.65 m/min
The distance from the central line of the spindle to the body	320 mm		315 mm
Table size	1200 × 500 mm		1680 × 450 mm
Table travel	Crosswise	100 mm	150 mm
	Lengthwise	800 mm	1500 mm
Rapid travel of guide slide	2800 mm/min		2800 mm/min
Rapid travel of table			1400 mm/min
Machine power	Main motor	3 Kw	2.4/3 Kw
	Motor for quick-moving	0.75 Kw	
Overall dimensions(L × W × H)	2000 × 1235 × 1920 mm		2680 × 1500 × 2325 mm
Packing dimensions(L × W × H)	1400 × 1400 × 2250 mm		1578 × 1910 × 2575 mm
N.W./G.W.	2000/2200 kg		3500/3700 kg

VERTICAL BORING MACHINE



T716A



T7220B



T7240

Model	T716A	T7220B	T7220C	T7240
Max. boring diameter	Φ 160 mm	Φ 200 mm	Φ 200 mm	Φ 400 mm
Max. boring depth	410 mm	500 mm	500 mm	750 mm
Milling cutter head diameter	-	-	250 mm	-
Max. milling area (L x W)	-	-	850 x 250 mm	-
Spindle speed range	190-600 r/min	53-840 r/min		50-1000 r/min
Spindle feed range	0.05-0.20 mm/r	0.05-0.20 mm/r		6-3000 mm/min
Spindle travel	550 mm	710 mm		1000 mm
Distance from spindle axis to carriage vertical plane	310 mm	315 mm		500 mm
Table longitudinal travel	700 mm	900 mm	1100 mm	1600 mm
Table longitudinal feed speed	-	-	54,108 mm/min	-
Table longitudinal quick move speed	-	-	1500 mm/min	-
Table cross travel	100 mm			
Boring dimension accuracy	IT7	IT7		IT7
Milling dimension accuracy	-	-	IT8	IT8
Roundness	0.005	0.005		0.008
Cylindricity	0.02/300	0.01/300		0.02
Boring surface roughness	Ra1.6	Ra1.6		Ra1.6
Milling surface roughness	-	-	Ra1.6-3.2	Ra1.6-3.2
Overall dimensions (L x W x H)	1845x1712x2225 mm	2210x1600x2340 mm	2610 x 1600 x 2350 mm	3260x2063x3140 mm
Packing dimensions (L x W x H)	1460x1890x2190 mm	1850 x 1840 x 2230 mm		
N.W./G.W.	2800/3000 kg	3300/3800 kg	3600/4000 kg	7500/8000 kg

VERTICAL BORING MACHINE

Model	T170A	T200A	T250A
Max. boring diameter	Φ 170 mm	Φ 200 mm	Φ 250 mm
Max. boring depth	400 mm	500 mm	500 mm
Max. drilling & reaming diameter	Φ 30 mm		
Spindle speed	120-860 r/min		
Feeding of the spindle	14-900 mm/min		
Rapid moving speed of the spindle	1000 mm		
Spindle travel	700 mm		
Distance between spindle end face and table	0-700 mm		
Distance between spindle axis and carriage vertical plane	375 mm		
Max longitudinal travel of working table	1500 mm		
Max cross travel of the working table	200 mm		
Working table size (W x L)	500 x 1250 mm	500 x 1500 mm	
Quantity of "T" Slot	5 qua.		
Main moto	5.5 Kw		
Boring precision	Dimension Precision	H7	
	Boring roughness	Ra 2.5	
Overall dimensions (L x W x H)	2600 x 1630 x 2300 mm		
Packing dimensions (L x W x H)	2250 x 1900 x 2280 mm		
N.W./G.W.	3300/3600 kg	3500/3800 kg	

T170A



T200A/T250A



BRAKE DRUM LATHE

Model		Unit	C9335	C9365
Range of processing diameter	Brake drum	mm	Φ180-Φ350	Φ350-Φ650
	Brake plate	mm	Φ180-Φ350	Φ180-Φ400
Rotating speed of spindle		r / min	90	30,49,88
Max. travel of tool		mm	100	256
Motor power		kw	0.75	1.1
Overall dimensions (L x W x H)		mm	695 x 565 x 635	1750x800x815
Packing dimensions (L x W x H)		mm	750x710x730mm	1165x956x915
N.W. / G.W.		kg	200 / 230	650/800



T8360A
T8360B



T8365



BRAKE DRUM BORING MACHINE

Model	Unit	T8360A / T8360B	T8365
Range of processing diameter	mm	Φ180-Φ600	Φ350-Φ650
Rotating speed of workpiece	r/min	27, 45, 70	30, 45
Working travel of slide board	mm	450	450
Feed range	mm / r	0.4-0.07 (4 steps)	0.4-0.07 (4 steps)
Motor power	Kw	1.1	0.85 / 1.1
Overall dimensions (L x W x H)	mm	940 x 850 x 1415	950 x 900 x 1450
Packing dimensions (L x W x H)	mm	1200 x 1040 x 1630	1200 x 1050 x 1680
N.W./G.W.	kg	800 / 900	900 / 1000

GAS VALVE SEAT BORING MACHINE

Model	T8560
Scope of boring valve seat retainer	Φ20-Φ60mm
Maximum overall dimension of processing cylinder cover(L x W x H)	1000 x 300 x 150mm
	600 x 200 x 220mm
Speed adjustable range of main shaft	40-420r/min
Vertical movement travel of main shaft	185mm
Maximum swinging angle of main shaft	±6°
Main shaft conic hole	Mohs4#(M.T.4)
Movement range of boring head case body	Transverse: -25mm~+25mm
	Transverse: 800mm
Back and forth turn angle of jig body	±30°
Electric total power	2.5kw
Requirement of air supply	0.7Mpa 150L/min
Net weight of machine tool	1400Kg
Overall dimension of machine tool	1600 x 1100 x 2290mm



T8560



T8590A



GAS VALVE SEAT BORING MACHINE

Model		T8590A	T8590B
Boring diameter		Φ20-Φ90 mm	Φ20-Φ90 mm
Spindle speed range		55, 85, 210, 320, 370, 550 rpm	30-550 rpm (Stepless)
Spindle travel		180 mm	180 mm
Distance from spindle axis to guideway surface		270 mm	270 mm
Max. distance from end of spindle to working table		750 mm	750 mm
Moving speed of machine head		512 mm/min	512 mm/min
Moving speed of machine head	Cross	120 mm	120 mm
	Longitudinally	860 mm	860 mm
Main motor power		1.1/0.85kw 1400/950 rpm	1.1/0.85kw 1400/950 rpm
Overall dimensions(L x W x H)		1300 x 800 x 1930 mm	1300 x 800 x 1930 mm
Packing dimensions(L x W x H)		1700 x 1100 x 2000 mm	1700 x 1100 x 2000 mm
N.W. / G.W.		1200/1400 kg	1200/1400 kg

LINE BORING MACHINE FOR CYLINDER HEADS AND BLOCKS

Model	T8108
Boring range	Φ24 – Φ85 mm
Max.travel of shaft	100 mm
Boring shaft size(Dia.x length)	Φ20 x 900 mm
	Φ32 x 980 mm
Main shaft rotating speed	272, 580 rpm
Boring shaft feed	Stepless
Distance between cylinder fixture and boring shaft center	45–295mm
Motor power	0.55/0.75 kw
Overall dimensions (L x W x H)	1620 x 700 x 1370 mm
Packing dimensions (L x W x H)	1740 x 920 x 1700 mm
N.W./G.W.	600/750 kg



T8108

CYLINDER BODY BUSHING BORING MACHINE

Model	T8115	T8120
Range of hole diameter to be bored	Φ36–Φ150 mm	Φ36–Φ200 mm
Max. length of cylinder body to be bored	1600 mm	2000 mm
Main shaft max elongation	300 mm	300 mm
Main shaft rotating speed(6 steps)	210–945 rpm	210–945 rpm
Boring shaft feed	0.044, 0.167 mm/r	0.044, 0.167 mm/r
Motor power	0.75/1.1 Kw	0.75/1.1 Kw
Overall dimension (L x W x H)	3500 x 800 x 1500 mm	3900 x 800 x 1500 mm
Packing dimensions (L x W x H)	3650 x 1000 x 1600 mm	4040 x 1020 x 1600 mm
N.W./G.W.	1900/2200 kg	2200/2500kg



T8115

CON-ROD BORING MACHINE

Model	T8210D	T8216
Diameter range of boring hole	Φ16–Φ100 mm	Φ15–Φ150 mm
Centre distance of link two hole	100–425 mm	85–600 mm
Longitudinal travel of worktable	220 mm	320 m
Spindle speed	350, 530, 780, 1180 rpm	140,215,355,550,785, 1200rpm
Transverse adjusting amount of fixture	80 mm	80 mm
Feeding speed of worktable	16–250 mm/min	16–250 mm/min
Traveling speed of working	1800 mm/min	1800 mm/min
Diameter of boring bar (4 class)	14, 16, 24, 40 mm	14, 29, 38, 59 mm
Main motor power	0.65/0.85 Kw	0.85/1.1 Kw
Motor power of oil pump	0.55 Kw	0.55 Kw
Overall dimensions(L x W x H)	1150 x 570 x 1710 mm	1300 x 860 x 1760 mm
Packing dimensions(L x W x H)	1700 x 950 x 1450 mm	1850 x 1100 x 1700 mm
N.W/G.W	700/900 kg	900/1100 kg



T8210D



TM8216

CON-ROD BORING AND GRINDING MACHINE

Model	TM8216
Range of hole diameter to be bored	Φ20–Φ160 mm
Range of hole diameter to be grinded	Φ30–Φ160mm
Distance between 2 holes center of rod	80–650 mm
Distance between center of boring and grinding bar to the worktable	270 mm
Longitudinal travel of worktable	450 mm
Boring head motor	0.55 / 0.75 Kw
Grinding head rotation / revolution motor	0.55 / 0.37 Kw
Hydraulic system motor	0.55 Kw
Overall dimensions	1700 x 1300 x 1800 mm
Packing dimensions	2250 x 1120 x 1660 mm
N.W. / G.W.	1300 / 1500 kg

VERTICAL HONING MACHINE

Model	2M2217A
Honing diameter range	Φ40-Φ170mm
Max. honing depth	300mm
Telescopic length spindle connecting rod	120mm
Spindle speed (4 steps)	130, 180, 240, 365mm/min
Spindle reciprocation speed (stepless)	3-18m/min
Max. spindle travel	270mm
Distance from spindle axis to column vertical plane	300mm
Table dimensions	400 × 1000mm
Table longitudinal travel	800mm
Machining accuracy	0.003mm
	0.005mm
	Ra0.4
Overall dimensions (L × W × H)	1900 × 1176 × 2169mm
Packing Dimension (L × W × H)	1700 × 1700 × 2280mm
N.W./G.W.	2500/3000kg

2M2217A



THM170



VERTICAL HONING MACHINE

Model	Unit	THM170
Max diameter of hole honed	mm	Φ 170
Max depth of hole honed	mm	360
Spindle speed (stepless)	r.p.m	100-300
Roundness	mm	0.0025
Cylindricity	mm	0.005
Surface roughness		Ra0.2
Table longitudinal travel	mm	1100
Cross longitudinal travel	mm	80
Table max. loading	kg	200
Main motor	kw	1.1
Hydraulic station motor	kw	1.5
Coolant pump motor	w	90
Spindle reciprocation speed (stepless)	m/min	0-18
Overall dimensions (L × W × H)	mm	1820x1440x2170
Packing dimensions (L × W × H)	mm	2210x1610x2270
N.W./G.W.	kg	1200/1400

CYLINDER BLOCK GRINDING MACHINE

Model	3M9735A × 100	3M9735A × 130	3M9735B × 130	3M9735B × 150
Max length of processing	1000mm	1300mm	1300mm	1500mm
Max width of processing	350mm	350mm	350mm	350mm
Max height of processing	600mm	600mm	800mm	800mm
The vertical moving distance of grinding wheel plate	120mm	120mm	60mm	60mm
The vertical moving distance of grinding wheel head			800mm	800mm
Moving speed of working table	40-900mm/min	40-900mm/min	40-900mm/min	40-900mm/min
Dimensions of working table	1000 × 500mm	1300 × 500mm	1300 × 500mm	1500 × 500mm

3M9735B

