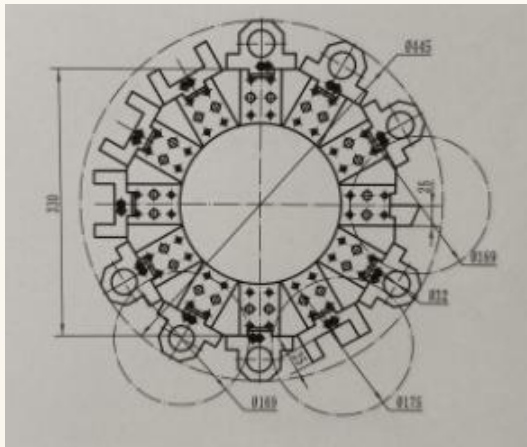


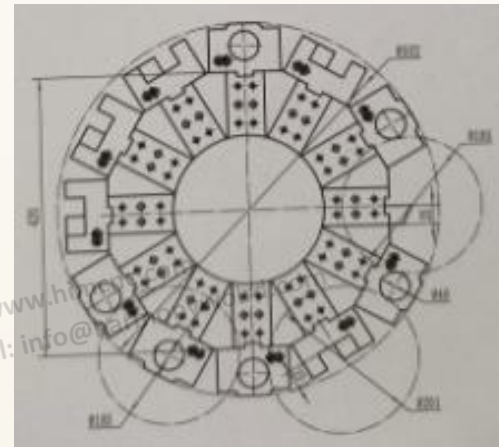
TURRET TAIL TOP MACHINE

HM52DW

- 1.Adopt the whole inclined bed structure, good rigidity, resin sand casting, aging treatment, precision and precision maintenance is good
- 2.Automatic hydraulic tail stock, it's high accurate, high effective and stable with hydraulic system. Simple and rigorous structure highly in create the durability and safety in production. It is specially designed forthis machine.
- 3.integral sealed protection, the sealed design provides excellent water resistant and only make low sound when operating
It's more durable and protests all electric device from water, oil and metal shavings
- 4.Integral motor seat and guide way design highly increase the accuracy that may effected by installation
- 5.Streamline structure chip conveyor has beautiful appearance, it is high effective and conveys smoothlyThe overload protection ensure the stability and safety.



HM8012



HM10012

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TOOL TOWER TAIL TOP/POWER TOOL TOWER TAIL TOP MACHINE TOOL

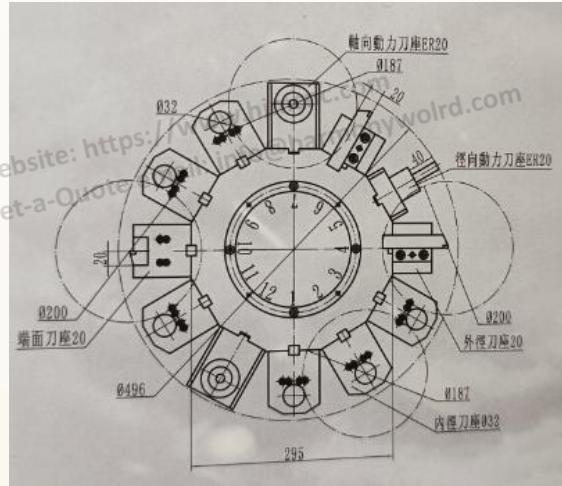
HM75100DWY

1. It adopts high rigidity hard rail structure, turret and -axis integral structure. This model can be installed on slant bed or flat bed lathe.
2. The rail locking mechanism ensures optimum rigidity, and the best machining accuracy and quality can be achieved regardless of the fixed and powered tool holders.
3. Large stroke, front and back, BMT tool system.
4. Y-axis turret can improve the processing range and operation convenience of turning-milling compound, and can complete the combined machining process of turning, drilling, tapping, tapping and keyway

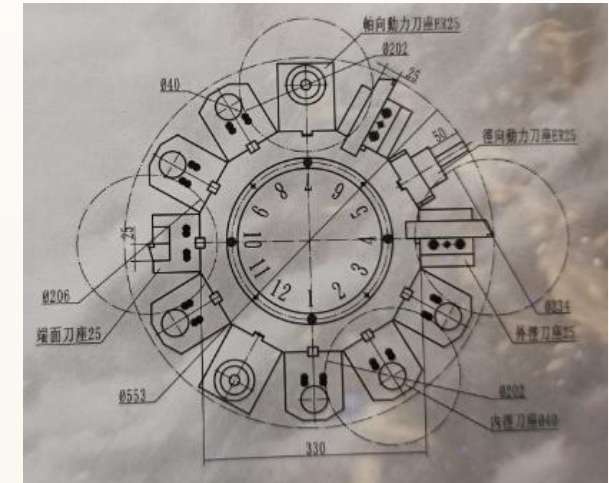
High precision: standardization of parts and interchangeability.

High rigidity: structural CAE treatment, uniform intensity distribution

High stability: It adopts a large-disc three-piece clutch structure to ensure stable accuracy and high holding power.



Power turret BWT45 cutterhead



Power turret BWT55 cutterhead



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TURRET TAIL TOP MACHINE PARAMETERS

Machine Data		Unit	/Track series					Hard Rail series	
			HM46DW	HM52DW	HM66DW	HM75DW	HM75100DWY	HM52HMY	HM58HMY
Processing capacity	Bed rotation diameter	mm	460	560	560	560	580/650	460	920
	Disc processing diameter	mm	400	450	450	450	580/630	400	600
	Rotary diameter of long axis machining	mm	210	300	300	300	360/400	260	440(600)
	Maximum processing length	mm	350	500/600/750	500/600/750	460/600/750	1000/2000/3000	400	750/1000/1500/2000
	Distance between two peaks	mm	370	550/650/800	550/650/800	520/650/800	1320/2300/3300	420	800/1100/1600/2100
X/Z stroke	X axis travel	mm	210	225	225	225	350	245	330
	Z axis travel	mm	400	610/810	610/810	610/810	1120	500	940/1240/1840/2440
Spindle parameters	Spindle nose form	-	A2-5	A2-6	A2-6	A2-8	A2-8/A2-11	A2-6	A2-8/A2-11
	Chuck / collet	Inch	6	8	8	10	10/12	8	10/12
	Spindle through hole diameter	mm	56	66	79	88	88/105	66	88/105
	Bar passing diameter	mm	46	52	66	75	75/91	52	75/91
	spindle speed range	rpm	5000	4200	4200	3500	2500	3000	2500
Moving speed	X/Z axis rapid traverse speed	m/min	30/30	30/30	30/30	30/30	18/18	18/18	18/18
Position	Minimum setting unit (X/Z)	mm	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	Repeated positioning accuracy of X/Z axis	mm	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	X/Z axis positioning	mm	0.002	0.002	0.002	0.002	0.002	0.002	0.002

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	accuracy								
Sword tower	Tool rest station	mm	12	12	12	12	12	12	12
	Cylindrical/face tool holder	mm	25	25	25	25	25	25	25
	Boring tool holder	mm	32	32/40	32/40	32/40	40	32	40
	Turret center height	kw	80	100	100	100	100	80	100
Motor Power	Spindle motor	kw	7.5/11	11/15	11/15	15/18.5	18.5/22	11/15	22/30
	X axis motor	kw	1.7	2.4	2.4	3.9	5.9	2.4	5.9
	Z axis motor	kw	1.7	2.4	2.4	3.9	5.9	2.4	5.9
	Tool change motor	kw	0.75	0.75	0.75	0.75	0.75	0.75	0.75
	Hydraulic motor	kw	1.5	1.5	1.5	1.5	1.5	1.5	2.0
	Water pump motor	mm	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Tailstock	Tailstock sleeve diameter	mm	65	80	80	80	100	75	100
	Tailstock sleeve stroke	mm	80/120	80/150	80/150	80/150	120	80	80
	Maximum stroke of tailstock	MT	300	450/750	450/750	450/750	1250	300	630/930/1530/2130
	Tailstock form	KG	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	Tailstock sleeve taper	m	MT4	MT5	MT5	MT5	MT5	4 号/Style 4	5 号/Style 5
Capacity	Tank	mm	60	60	60	60	80	60	80
	Water tank	mm	100	100	100	100	200	100	200
Machine size	Machine weight	mm	3850	4850	4850	5000	6850	4200	5500/6900/7500/7900
	Length*width*height	mm	2.5×1.8×1.95	2.85(3.15)×1.9×2.05	2.85(3.15)×1.9×2.05	2.85(3.15)×1.9×2.05	4.4×2.25×2.45	2.5×1.7×1.85	3.5/4.2/4.9/5.8×2×2.2

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POWER TOOL TOWER TAIL TOP TURNING AND MILLING COMPOUND MACHINE

HM52DWY



Mechanical features

High precision: standardization of parts and interchangeability.

High rigidity: structural CAE treatment, uniform intensity distribution.

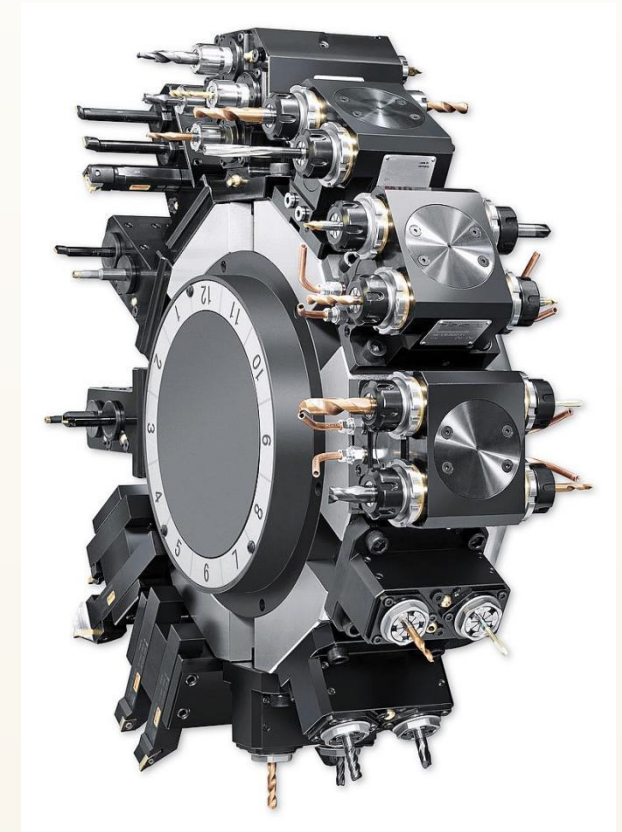
High stability: It adopts a large-disc three-piece clutch structure to ensure stable accuracy and high holding power.

1. It adopts high rigidity hard rail structure, turret and Y-axis integral structure. This model can be installed on slant bed or flat bed lathe.

2. The rail locking mechanism ensures optimum rigidity, and the best machining accuracy and quality can be achieved regardless of the fixed and powered toolholders.

3. Large stroke, front and back, BMT tool system.

4. Y-axis turret can improve the processing range and operation convenience of turning-milling compound, and can complete the combined machining process of turning, drilling, tapping, tapping and keyway.



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POWER TURRET TAIL TOP TURNING-MILLING COMPOUND PARAMETERS

Machine Data		Unit	Track series					
			HM46DWY	HM52DWY	HM75DWY	HM75100DWY	HM52HMY	HM75/85HMY
Processing capacity	Bed rotation diameter	mm	460	560	560	650	640	920
	Disc processing diameter	mm	350	380	380	500	400	600
	Rotary diameter of long axis	mm	280	350	350	400	340	600
	Maximum processing length	mm	310	420/680	400/650	1000/2000/3000	360	530/830/1430/2000
Each axis stroke	X axis travel	mm	21	225	225	350	255	330
	Y axis travel	mm	70	100	100	100	70	100/140
	Zaxis travel	mm	400	610/810	610/810	1000/2000/3000	500	940/1240/1840/2440
Spindle	Spindle nose form	-	A2-5	A2-6	A2-8	A2-8/A2-11	A2-6	A2-8/A2-11
	Chuck/collet	Inch	6	8	10	10/12	8	10/12
	Spindle through hole diameter	mm	56	66	88	88/105	66	88/105
	Bar passing diameter	mm	46	52	75	75/91	52	75/91
	Spindle nose form	rpm	5000	4200	3500	2500	3000	2500
Moving speed	XYZaxis rapid traverse speed	m/min	30/20/30	30/20/30	30/20/30	18/18/18	18/18/18	18/18/18
Position	Repeated positioning accuracy	mm	0.003	0.003	0.003	0.003	0.003	0.003
	X/Y/Zaxis positioning accuracy	mm	0.002	0.002	0.002	0.002	0.002	0.002
	C-axis positioning accuracy	ARCsecond/degre	10/0.003	10/0.003	10/0.003	10/0.003	10/0.003	10/0.003
Sword tower	Tool reststation	T	12/15	12	12	12	12	12
	Cylindrical/face toolholder	mm	20	25	25	25	20	25
	Boring tool holder	mm	25	32/40	32/40	32/40	25	40
	Power head specification form	-	ER25	ER25/32	ER25/32	ER25/32	ER20/25	ER32
	Power head speed	rpm	5000	5000	5000	5000	5000	5000
Motor Power	Spindle motor	kw	7.5/11	11/15	15/18.5	18.5/22	11/15	22/30
	TD milling chipspindle	kw	2.3	2.3	2.3	2.3	2.3	2.3
	Tool change motor	kw	1.0	1.0	1.0	1.0	1.0	1.0
	XYZ axis motor	kw	2.4/1.7/2.4	3.9/2.4/3.9	3.9/2.4/3.9	5.9/2.4/5.9	2.4/1.7/2.4	5.9/2.4/5.9
	Hydraulic motor	kw	1.5	1.5	1.5	1.5	1.5	2.0
	Water pump motor	kw	0.45	0.45	0.45	0.45	0.45	0.45
Tailstock	Tailstock sleeve diameter	mm	65	80	80	100	75	100
	Tailstock sleeve stroke	mm	80/120	80/150	80/150	120	80	80
	Maximum stroke of tailstock	mm	300	450/750	450/750	1250	300	630/930/1530/2130
	Tailstock sleeve form	-	Hvdraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	Tailstock sleeve taper	MT	Style 4	Style 5	5 号/Style 5	5 号/Style 5	4 号/Style 4	5 号/Style 5
Capacity	Tank	L	60	60	60	80	60	80
	Water tank	L	100	100	100	200	100	200
Machine size	Machine weight	KG	4200	5050	5050	6850	4200	5500/6900/7500/7900
	Length*width*height	m	2.5*1.8*1.85	2.85*1.95*2.25	2.85*1.95*2.25	4.4*2.25*2.45	2.5*1.7*1.85	3.5/4.2/4.9/5.8*2*2.2

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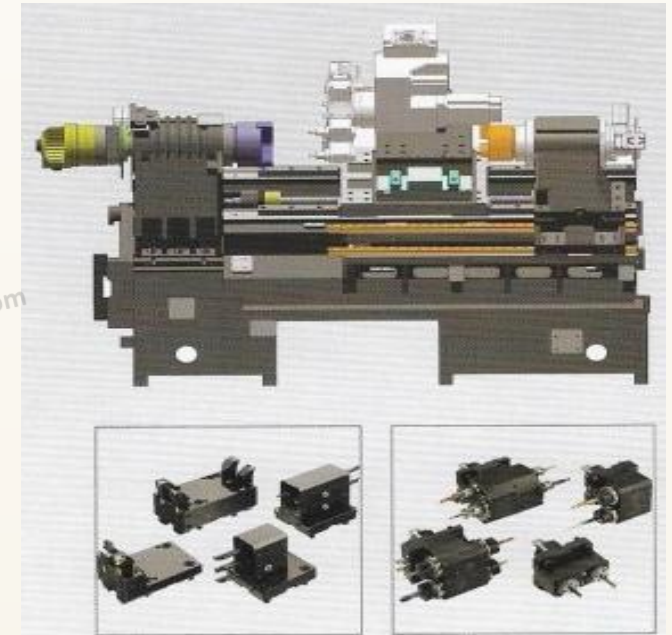
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DOUBLE SPINDLE TURNING AND MILLING COMPOUND MACHINE TOOL

HM52DSY

01 Mechanical features

- 1.Space-saving design, the overall improvement of feed shaft speed, can effectively enhance production capacity.
- 2.Highly Modular design, with seven axial configurations, with Y-axis power knifetower and auxiliary spindle, and can select all kinds of high-precision accessories and feeding and unloading mechanism to achieve automated production.
- 3.The left and right spindles can be equipped with built-in motors, with high accuracy, low vibration and low noise, which can make the workpiece surface finish better.
4. The left spindle can also choose the reliable and cost-effective belt-type spindle table, using Taiwan high-rigidity, high-precision turning and milling cutter tower using large outside diameter curved tooth clutch gear, the power cutter tower can complete the turning and milling process, such as milling, drilling, tapping and soon, which can improve the engineering concentration ability and machining accuracy.



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	Machine Data	Unit	HM46DSY	HM52DSY	HM7DY
Processing capacity	Bed rotation diameter	mm	570	660	660
	Disc processing diameter	mm	480	480	480
	Rotary diameter of long axis machining	mm	360	360	360
	Maximum processing length	mm	450	700	700
Each axis stroke	X-axis travel	mm	270	270	270
	Y-axis travel	mm	100	100	100
	Z-axis travel	mm	610	810	810
	Z1 axis travel	mm	470	680	680
Positive spindle	Spindle nose form	-	A2-5	A2-6	A2-8
	Chuck/collet	Inch	6	8	10
	Spindle through hole diameter	mm	56	66	88
	Bar passing diameter	mm	46	52	75
	Spindle speed range	rpm	6000	4200	3500
Sub-spindle	Spindle nose form	-	A2-5	A2-5	A2-5
	Chuck/collet	Inch	6	6	6
	Spindle through hole diameter	mm	46	56	56
	Maximum bar passing diameter	mm	46	46	46
	Spindle speed range	r/min	6000	6000	6000
Fast moving speed	X/Y/Z/Z1-axis travel rapid traverse speed	m/min	30/18/30/30	30/18/30/30	30/18/30/30
Position	X/Y/Z/Z1 axis positioning accuracy	mm	0.002	0.002	0.002
	Repeated positioning accuracy of X/Y/Z/Z1 axis	mm	0.003	0.003	0.003
	C-axis positioning accuracy	ARCsecondideye	10/0.003	10/0.003	10/0.003
Power Turret	Tool rest station	T	12	12	12
	External/face shank dimensions	mm	25	25	25
	Boring shank size	-	32	32/40	32/40
	Power head speed	rpm	5000	5000	5000
Motor Powet	Positive spindle	kw	7.5/11	11/15	15/18.5
	Sub-spindle	kw	lectricspindle	Electricspindle	Electricspindle
	Td milling chip spindle	kw	2.3	2.3	2.3
	Tool changer	kw	1.0	1.0	1.0
	X/Y/Z/Z1 axis	kw	3.1/2.4/3.1/3.1	3.9/2.4/3.9/3.1	3.9/2.4/3.9/3.1
	Hydraulic/Water pump	kw	1.5/0.45	1.5/0.45	1.5/0.45
Capacity	Tank/Water tank	L	80/100	80/100	80/100
Machine size	Machine weight	KG	5100	5800	6200
	Length*width*height	m	2.95× 2.1×2.25	3.35×2.1×2.25	3.35×2.1×2.25

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POWER TOOLTOWER TURNING AND MILLING COMPOUND MACHINE

HM46DY

1. Elasticity of two-axis rotation through servo motor and precision ballscrew Direct coupling, good force condition. high positioning accuracy, equipped with computer Automatic lubrication system is used to force lubrication of linear guide rail and ball screw.
2. X-axis and Z-axis adopt high rigidity linear sliding track between track and track Through calculation, better span, low resistance, high rigidity, etc. are obtained. High precision, displacement speed up to 30M/min improve work efficiency Rate, shorten processing time.
3. Hydraulic station adopts Taiwan variable displacement pump, hydraulic motor and solenoid valve. Adding air-cooling device, low noise and low oil temperature.



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TECHNICAL PARAMETERS

Machine Data		Unit	HM46DY	HM52DY
Processing capacity	Rotation diameter of bed	mm	480	480
	Machining diameter (disctype	mm	320	320
	Machining diameter on row cutte	mm	160	160
	Processing length	mm	320	320
Each axis strok	XYZ axis trave	mm	960/70/460	960/70/460
Spindle	Spindle nose form		A2-5	A2-6
	Chuck /colle	Inch	6	8
	spindle through hole diameter	mm	56	62
	Bar passing diameter	mm	46	52
	Spindle speed range	rpm	6000	4200
Moving speed	XYZ axis rapid traverse speed	m/min	30/20/30	30/20/30
Position	Repeated positioning accuracy of X/Y/Z axis	mm	0.003	0.003
	X/Y/Z axis positioning accuracy	mm	0.002	0.002
	C-axis positioning accuracy	ARCsecond/degree	10/0.003	10/0.003
Power turret	Toofrest station(optional)	T	12(15)	12(15)
	Cylindrical/face toolholder	mm	20	20
	Boring toot holder	mm	25	25
	Power head specification form	-	ER25	ER25
	Power head speed	rpm	5000	5000
	Motor Power	Spindle motor	kw	7.5/11
TD milling chip spindle		kw	2.3	2.3
Tool change motor		kw	1.0	1.0
XYZ axis motor		kw	2.4/1.7/2.4	2.4/1.7/2.4
Hydraulic motor		kw	1.5	1.5
Water pump motor		kw	0.45	0.45
Capacity	Tank	L	60	60
	Watertank	L	100	100
Machine size	Machine weight	KG	3500	3600
	Length*width*height	m	2.28×1.68×2.16	2.28×1.68×2.16

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4+4 TURNING AND MILLING COMPOUND MACHINE

HM46Y

1. Elasticity of two-axis rotation through servo motor and precision ball screw Direct coupling,good force condition, high positioning accuracy,equipped with computer Automatic lubrication system is used to force lubrication of linear guide rail and ball screw.
2. X-axis and Z-axis adopt high rigidity linear sliding track between track and track Through calculation, better span, low resistance high rigidity etc. are obtained. High precision, displacement speed up to 30 M/min Improve work efficiency Rate. shorten processing time.
3. Hydraulic station adopts Taiwan variable displacement pump, hydraulic motor and solenoid valve. Adding air-cooling device, low noise and low oil temperature.



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TECHNICAL PARAMETERS

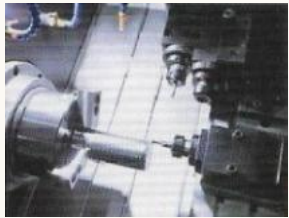
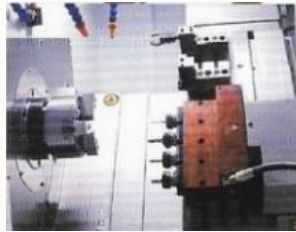
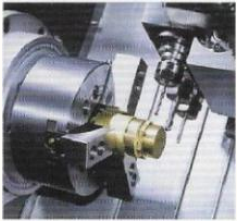
Machine Data		Unit	HM6Y	HM52Y
Processing capacity	Rotation diameter of bed	mm	φ500	φ500
	Machining diameter(disctype)	mm	φ300	φ400
	Machining diameter on row cutter	mm	160	160
	Processing length	mm	350	350
Each axis stroke	X/Y/Z axis travel	mm	1100/210/450	1100/210/450
Spindle parameters	Spindle nose form		A2-5	A2-6
	Chuck/collet	Inch	6	8
	Spindle through hole diameter	mm	56	66
	Bar passing diameter	mm	46	52
	Spindle speed range	rpm	6000	4200
Moving speed	X/Y/Z axis rapid traverse speed	m/min	30/20/30	30/20/30
Dota	Tool rest station	T	8	8
	Cylindrical/face tool holder	mm	20	20
	Boring tool holder	mm	25	25
	Turret center height	mm	63	63
Position	Minimum setting unit(X/Y/Z)	mm	0.001	0.001
	Repeated positioning accuracy of X/Y/Zaxi	mm	0.003	0.003
	X/Y/Z axis positioning accuracy	mm	0.002	0.002
	C-axis positioning accuracy	ARCsecond/degree	10/0.003	10/0.003
Motor Power	Spindle motor	kw	7.5/11	7.5/11
	X/Y/Z axis moto	kw	2.4/1.7/2.4	2.4/1.7/2.4
	Tool change motor	kw	0.75	0.75
	Hydraulic motor	kw	0.75	0.75
	Water pump motor	kw	0.45	0.45
Power Head	A/b axis(4+4 dual motors)	kw	1.7/1.7	1.7/1.7
	A/b axis(4+4 dual motors)	rpm	0-3000	0-3000
	A-axis live tools	-	4×ER25	4×ER25
	Number of b-axis live tools	-	4×ER25	4×ER25
Capacity	Tank	L	60	60
	Water tank	L	100	100
Machine size	Machine weight	kg	3450	3550
	Length*width*height	m	2.2×2.2×2.3	2.2×2.2×2.3

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TURNING AND MILLING WITH TURRET CUTTER.ROW CUTTER AND BOW CUTTER WITH POWER MILLING



MACHINING PARTS SAMPLE



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TECHNICAL PARAMETERS

Machine Data		Unit	HM25P	HM36P	HM46P	HM52P
Processing capacity	Rotation diameter of bed	mm	φ400	φ400	φ500	φ500
	Machining diameter(disctype)	mm	φ200	φ200	φ300	φ400
	Machining diameter on row cutter	mm	φ100	φ120	φ125	φ160
	Processing length	mm	180	300	350	350
X/Z stroke	X-axis travel	mm	500/800	800	900	900
	Z-axis travel	mm	180	250	350	350
Spindle parameters	Spindle nose form		A2-4	A2-4	A2-5	A2-6
	Chuck/Collet	Inch	4	5	6	8
	Spindle through hole diameter	mm	φ36	φ46	φ56	φ62
	Bar through hole diameter	mm	φ25	φ36	φ46	φ52
	Spindle rotation range	rpm	0-6000	0-6000	0-6000	0-4200
Moving speed	X-axis rapid traverse speed	m/min	30	30	30	30
	Z-axis rapid traverse speed	m/min	30	30	30	30
Position	Minimum setting unit(X/Z)	mm	0.001	0.001	0.001	0.001
	Repeated positioning accuracy of X/Zaxis	mm	0.003	0.003	0.003	0.003
	X/Zaxis positioning accuracy	mm	0.002	0.002	0.002	0.002
Motor Power	Spindle motor	kw	3.7	3.7/5.5	5.5/7.5	7.5/11
	X-axis moto	kw	1.1	1.3	1.7	2.4
	Z-axis motor	kw	1.1	1.3	1.7	2.4
	Hydraulic motor	kw	0.75	0.75	0.75	0.75
	Water pump motor	kw	0.25	0.25	0.25	0.25
Capacity	Tank	L	60	60	60	60
	Watertank	L	100	100	100	100
Machine size	Machine weight	kg	1650	2200	2850	3100
	Length*width*height	m	1.65×1.45×1.7	2.1×1.6×1.99	2.1×1.6×1.95	2.3×1.6×2.0

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