



MP25.8.V1

CALIBER

METAL PROCESSING

SHAPING THE WORLD

SXKH[®] GROUP

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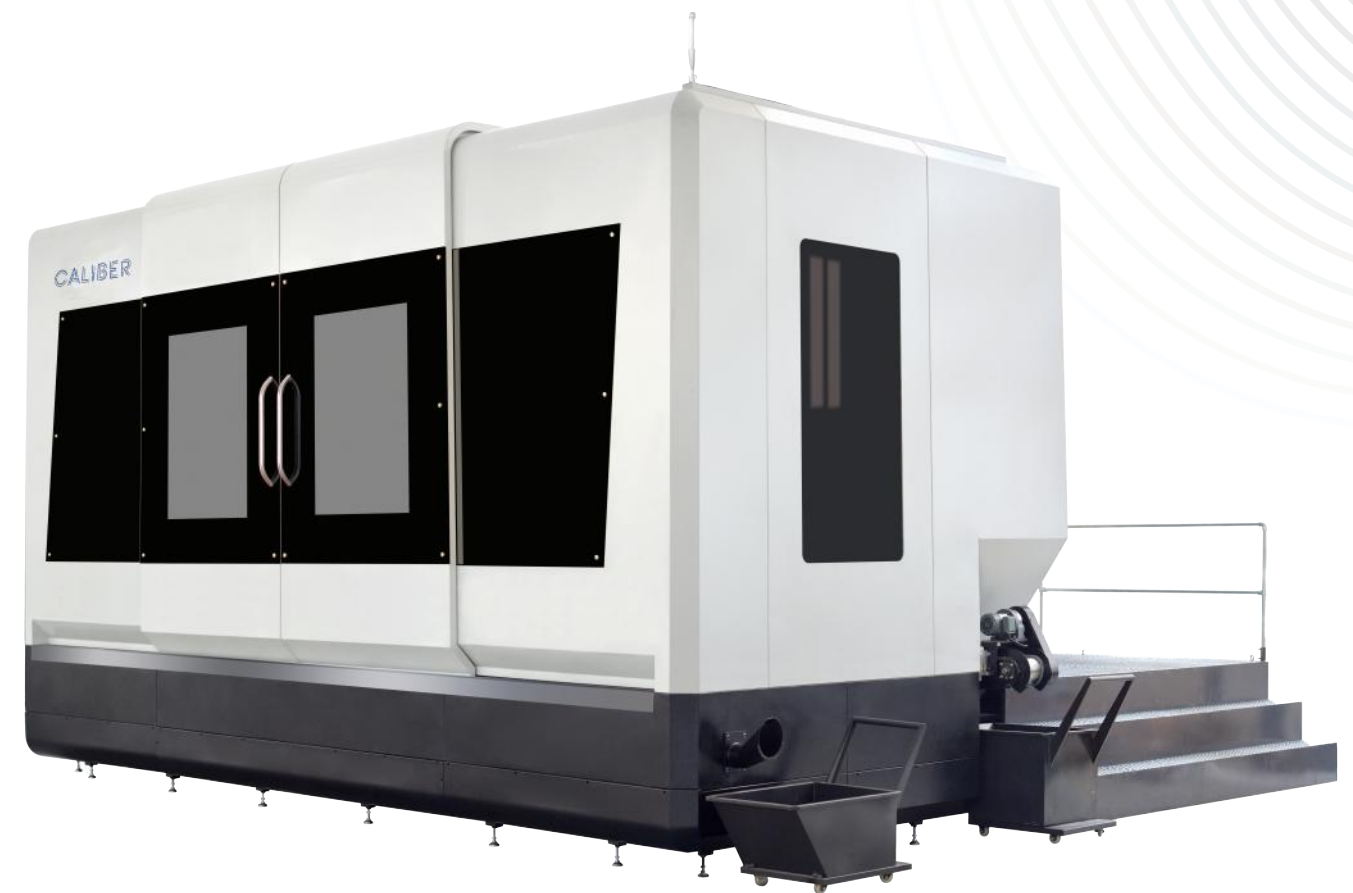
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We wish to have our presence across the world.
We also sincerely welcome new partners to join hands with SXXH
to help us reach out to global industries.



SXXH(Zhejiang)Machinery Co., Ltd.

Located in Ningbo, China, it is mainly engaged in designing, producing and selling Die Spotting Press, Mold Flipper, Mold Inspection Machine, Hydraulic Clamps and Electro-permanent Magnetic Chuck. Ningbo SXXH owns two plants in Ningbo with annual output of 200 sets of die spotting presses, which is one of the first domestic manufacturers of die spotting press.

Shanghai SXXH Automation CO., Ltd.

Located in Shanghai, China, it is mainly engaged in providing import service of High-end equipment from Europe and America to Chinese market, including installation and after-sales service. For instance: the six-axis machining center from Moldmak, Portugal, which is the world leading company in Milling & Drilling machine. Meanwhile, Shanghai SXXH also provides Chinese top-quality mold & tool processing equipment to global customers.

SXXH Automation India Private Limited

Located in New Delhi, India, it is responsible for all businesses in India market of SXXH Industry.

SXXH(HONG KONG)Industry Limited

Located in Hongkong, it is mainly engaged in the development of SXXH Industry business and industrial investment.

Ningbo Trans-Artisan Translation Co., Ltd.

As an independent language service enterprise under SXXH Global, it provides strong multi-language support for Chinese manufacturing enterprises to enter the international market.



Ningbo Headquarters



Ningbo Second Branch Factory



SXXH Mexico Company



SXXH Shanghai Global Service Center



SXXH German Factory

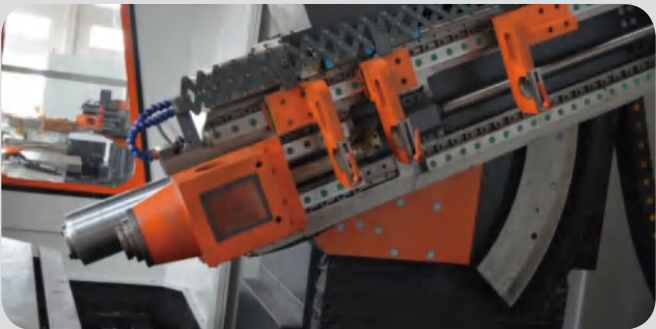
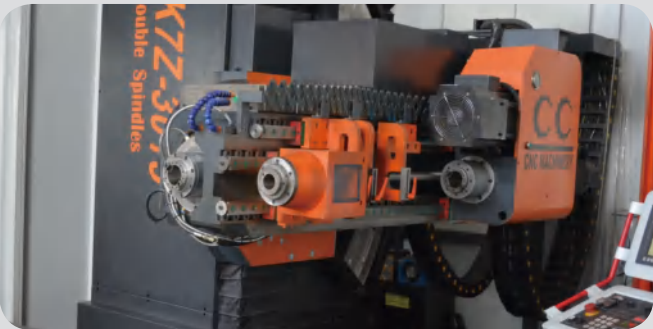
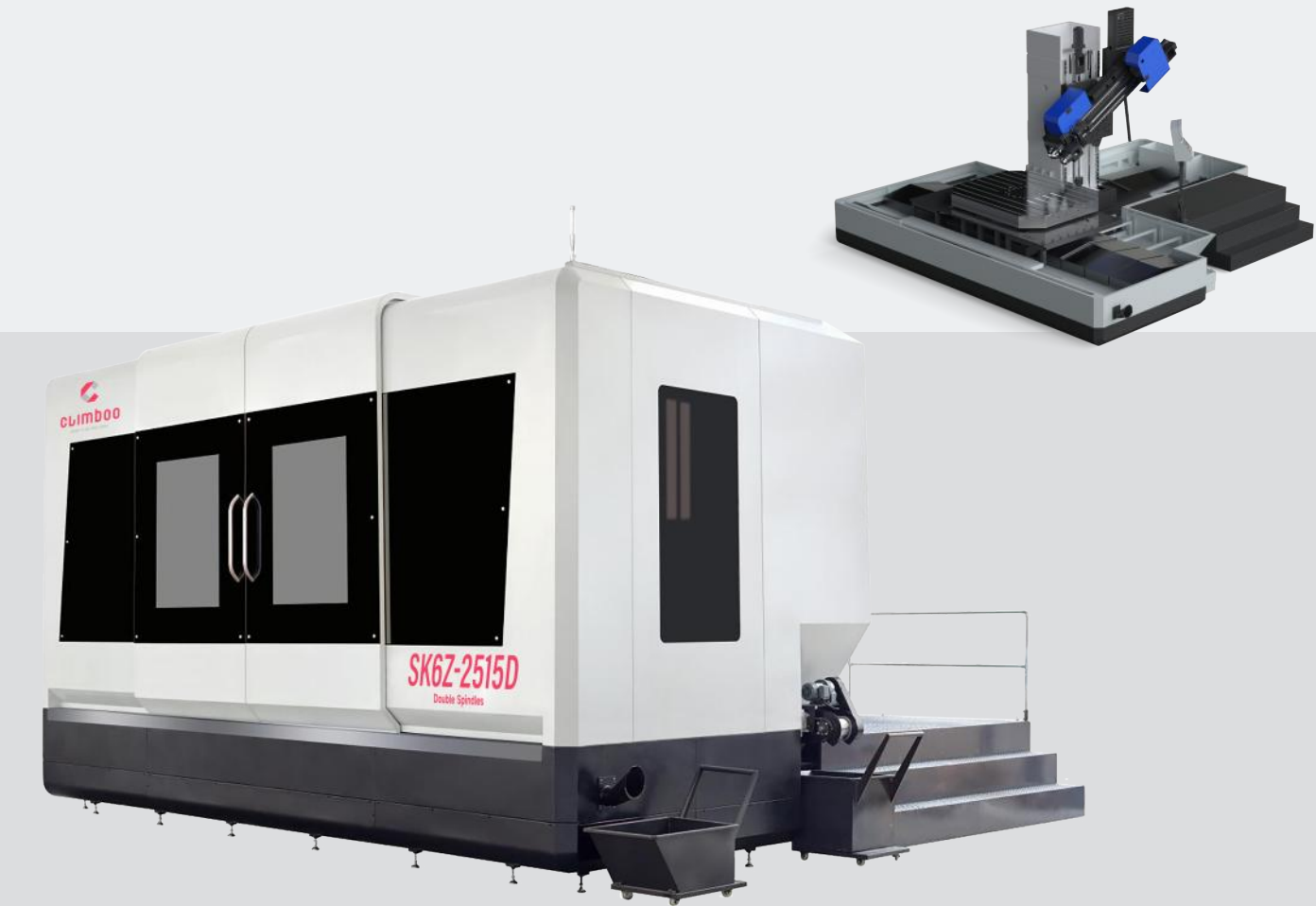


SXXH India

SIX-AXIS MILLING AND DRILLING COMPOUND MACHINE

SK6Z series milling and drilling compound machine tool is a kind of gun drilling, single tube drilling, milling, tapping multi-function in one of the double spindle six-axis deep hole drilling.

The A-axis rotation angle is 66°, and the unique and novel design of the large angle makes the perfect combination of function and performance, which can effectively solve the complex deep hole processing problems.

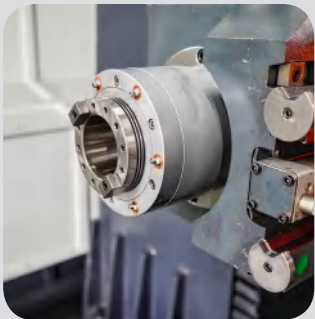


SIX-AXIS MILLING AND DRILLING COMPOUND MACHINE TECHNICAL PARAMETERS

ITEMS		SK6Z-1210D	SK6Z-1512D	SK6Z-2015D	SK6Z-2515D	SK6Z-3015D
CNC Axis Stroke	W Drilling One Stroke	1000 mm	1300 mm	1300 mm	1500 mm	1500 mm
	X Longitudinal Travel	1200 mm	1500 mm	2000 mm	2850 mm	3350 mm
	Y Vertical Travel	1000 mm	1200 mm	1500 mm	1500 mm	1500 mm
	Z Cross Travel	800 mm	1000 mm	1200 mm	1200 mm	1200 mm
	B Table Rotation	360°	360°	360°	360°	360°
	A Tilting Rotation	+20° /-46°	+20° /-46°	+20° /-46°	+20° /-46°	+20° /-46°
Drilling Capacity	Drilling Capacity	Φ 4 ~ Φ 100 mm	Φ 4 ~ Φ 100 mm	Φ 4 ~ Φ 100 mm	Φ 4 ~ Φ 100 mm	Φ 4 ~ Φ 100 mm
	Ejector Capacity	/	Φ 18 ~ Φ 65 mm	Φ 18 ~ Φ 65 mm	Φ 18 ~ Φ 65 mm	Φ 18 ~ Φ 65 mm
	Max. Drilling Stroke	1000+300 mm	1300+300 mm	1300+500 mm	1500+500 mm	1500+500 mm
	Max. Ejector Stroke	/	1000mm	1000mm	1000mm	1000mm
Milling Capacity	Max. Milling Cutting Capacity	283.5 cm³/min	472.5 cm³/min	472.5 cm³/min	472.5 cm³/min	472.5 cm³/min
	Rigid Tapping	M24	M30	M30	M30	M30
	Helical Threading	Standard	Standard	Standard	Standard	Standard
Spindle	Spindle Taper	BT40	BT50	BT50	BT50	BT50
	Max. Speed of Spindle	4000 rpm/6000 rpm	4000 rpm/5333 rpm	4000 rpm/5333 rpm	4000 rpm/5333 rpm	4000 rpm/5333 rpm
	Power	11 kW/15 kW	11 kW/18 kW	15 kW/18 kW	15 kW/18 kW	15 kW/18 kW
	Torque	72 Nm/143 Nm	108 Nm/214.5 Nm	147 Nm/214.5 Nm	147 Nm/214.5 Nm	147 Nm/214.5 Nm
Efficiency	Fast Feed(X.Y.Z)	10 m/min	10 m/min	10 m/min	10 m/min	10 m/min
	Fast feed(W)	6 m/min	6 m/min	6 m/min	6 m/min	6 m/min
	Max. Speed of Working Table(B)	2 r/min	2 r/min	1.11 r/min	1.11 r/min	1.11 r/min
	Max. Speed of Ram(A)	150° /min	150° /min	150° /min	150° /min	150° /min
Power	Spindle Motor	11 kW/15 kW	11 kW/18 kW	15 kW/18 kW	15 kW/18 kW	15 kW/18 kW
	X Axis Servo Motor	3 kW	3 kW	3 kW	3 kW	3 kW
	Y Axis Servo Motor	3 kW	3 kW	3 kW	3 kW	3 kW
	W Axis Servo Motor	2.5 kW	2.5 kW	2.5 kW	2.5 kW	2.5 kW
	Z Axis Servo Motor	3 kW	3 kW	3 kW	3 kW	3 kW
	A Axis Servo Motor	2.5 kW	2.5 kW	2.5 kW	2.5 kW	2.5 kW
	B Axis Servo Motor	2.5 kW	2.5 kW	3 kW	3 kW	3 kW
	Total Power	43 kW	45 kW	47 kW	50 kW	53 kW
Accuracy	Positioning accuracy	±0.001mm/300mm	±0.001mm/300mm	±0.001mm/300mm	±0.001mm/300mm	±0.001mm/300mm
	Repeat positioning accuracy	±0.001mm/300mm	±0.001mm/300mm	±0.001mm/300mm	±0.001mm/300mm	±0.001mm/300mm
Cooling System	Cooling Liquid Pressure	2-10 Mpa	2-10/1-1.7 Mpa	2-10/1-1.7 Mpa	2-10/1-1.7 Mpa	2-10/1-1.7 Mpa
	Cooling Liquid Flow	6-42 L/min	6-42/30-90 L/min	6-42/30-90 L/min	6-42/30-90 L/min	6-42/30-90 L/min
Table Specifications	Max. Table Load Capacity	3 Ton	5 Ton	10 Ton	15 Ton	20 Ton
	Resolution	0.001°	0.001°	0.001°	0.001°	0.001°
	Measurement(L*W)	800*800 mm	1000*1000 mm	1400*1400 mm	2000*1600 mm	2200*1800 mm
	T-slot	22mm	22mm	28mm	28mm	28mm
Measurement & Weight	Machine Measurement (L*W)	4600*6000 mm	5200*6100 mm	6200*6600 mm	7000*7300 mm	7500*7600 mm
	Machine Height(H)	3150-4150 mm	3300-4450 mm	3600-4750 mm	3600-4750 mm	3600-4750 mm
	Machine Weight	18 Ton	22 Ton	32 Ton	38 Ton	45 Ton
System	CNC System	FANUC Oi-MF PLUS	FANUC Oi-MF PLUS	FANUC Oi-MF PLUS	FANUC Oi-MF PLUS	FANUC Oi-MF PLUS

THREE-AXIS CNC DEEP HOLE DRILLING MACHINE

The SK Series is primarily designed for deep-hole machining in molds, as well as processing guide pillar and guide bushing holes. As a professional deep-hole machining machine for precision molds, this multi-functional model features three-axis CNC linkage and fully automatic adaptive drilling commands, enabling the machining of slender deep holes without the need for tool retraction. Different models are better suited for processing irregularly shaped molds.



THREE-AXIS CNC DEEP HOLE DRILLING MACHINE TECHNICAL PARAMETERS

ITEMS		SK-1000	SK-1613	SK-1616	SK-2016	SK-2516	SK-3020
CNC Axis Stroke	X Longitudinal Travel	1000 mm	1600 mm	1600 mm	2000 mm	2500 mm	3000 mm
	Y Vertical Travel	900 mm	1000 mm	1200 mm	1200 mm	1500 mm	1500 mm
Drilling Capacity	Drilling Capacity	Φ 4 ~ Φ 32mm	Φ 4 ~ Φ 32mm	Φ 4 ~ Φ 38mm	Φ 4 ~ Φ 38mm	Φ 4 ~ Φ 38mm	Φ 4 ~ Φ 38mm
	Max. Drilling Stroke(Z Axis Travel)	1000 mm	1300 mm	1600 mm	1600 mm	1600 mm	2000 mm
Spindle	Spindle Taper	BT40	BT40	BT40	BT40	BT40	BT40
	Max. Speed of Spindle	4500 rpm	4500 rpm	4500 rpm	4500 rpm	4500 rpm	4500 rpm
	Power	7.5 kW	11 kW	11 kW	11 kW	11 kW	11 kW
	Torque	108 Nm	157.5 Nm	157.5 Nm	157.5 Nm	157.5 Nm	157.5 Nm
Power	Spindle Motor	7.5 kW	11 kW	11 kW	11 kW	11 kW	11 kW
	X Axis Servo Motor	1.8 kW	2.9 kW	2.9 kW	4.4 kW	5.5 kW	5.5 kW
	Y Axis Servo Motor	1.8 kW	2.9 kW	2.9 kW	4.4 kW	4.4 kW	4.4 kW
	Z Axis Servo Motor	1.8 kW	1.8 kW	2.3 kW	2.3 kW	2.3 kW	2.3 kW
	Total Power	30 kW	30 kW	32 kW	36 kW	38 kW	42 kW
Accuracy	Positioning accuracy	±0.01mm	±0.01mm	±0.01mm	±0.01mm	±0.01mm	±0.01mm
	Repeat positioning accuracy	±0.01mm	±0.01mm	±0.01mm	±0.01mm	±0.01mm	±0.01mm
Cooling System	Cooling Liquid Pressure	2-10 Mpa	2-10 Mpa	2-10 Mpa	2-10 Mpa	2-10 Mpa	2-10 Mpa
	Cooling Liquid Flow	6-42 L/min	6-42 L/min	6-42 L/min	6-42 L/min	6-42 L/min	6-42 L/min
Table Specifications	Max. Table Load Capacity	6 Ton	10 Ton	12 Ton	14 Ton	16 Ton	20 Ton
	Measurement (L*W)	1200*900 mm	1700*1000 mm	1750*1200 mm	2100*1200 mm	2600*1400 mm	3000*1600 mm
	T-slot	22mm	22mm	22mm	22mm	28mm	28mm
Measurement & Weight	Machine Measurement (L*W)	3300*5200 mm	4300*5400 mm	4300*5900 mm	5400*5900mm	6300*6000mm	7400*6800 mm
	Machine Height(H)	2500-2750 mm	2550-2900 mm	2700-3200 mm	2700-3200 mm	3050-3850 mm	3100-3850 mm
	Machine Weight	9 Ton	12 Ton	14 Ton	17 Ton	20 Ton	23 Ton
System	CNC System	SYNTEC 22MA	SYNTEC 22MA	SYNTEC 22MA	SYNTEC 22MA	SYNTEC 22MA	SYNTEC 22MA

FIVE-AXIS HORIZONTAL MILLING MACHINE

10 m/min
Fast Feed (X.Y.Z)



FIVE-AXIS HORIZONTAL MILLING MACHINE TECHNICAL PARAMETERS

ITEMS		HM5Z-1210	HM5Z-1512	HM5Z-2015	HM5Z-2515
CNC Axis Stroke	X Longitudinal Travel	1200mm	1500mm	2000mm	2500mm
	Y Vertical Travel	1000mm	1200mm	1500mm	1500mm
	Z Cross Travel	850mm	1300mm	1300mm	1600mm
	B Table Rotation	360°	360°	360°	360°
	A Tilting Rotation	+20° /-30°	+20° /-30°	+20° /-30°	+20° /-40°
Drilling Capacity	Max. Milling Cutting Capacity	283.5cm³/min	283.5cm³/min	283.5cm³/min	283.5cm³/min
	Rigid Tapping	M32	M32	M32	M32
	Helical Threading	Standard	Standard	Standard	Standard
Spindle	Spindle Taper	BT50	BT50	BT50	BT50
	Max. Speed of Spindle	6000r.p.m	6000r.p.m	6000r.p.m	6000r.p.m
	Power	15/18.5kw	15/18.5kw	15/18.5kw	15/18.5kw
	Torque	143 N.m	143 N.m	143 N.m	143 N.m
Efficiency	Fast Feed (X.Y.Z)	10m/Min	10m/Min	10m/Min	10m/Min
	Cutting feed rate(X.Y.Z)	3m/Min	3m/Min	5m/Min	5m/Min
	Max. Speed of Working Table(B)	1r/min	1r/min	1r/min	1r/min
Power	Max. Speed of Ram(A)	150° /min	150° /min	150° /min	150° /min
	Spindle Motor	15/18.5kw	15/18.5kw	15/18.5kw	15/18.5kw
	X Axis Servo Motor	3kw	3kw	3kw	3kw
	Y Axis Servo Motor	3kw	3kw	3kw	3kw
	Z Axis Servo Motor	3kw	3kw	3kw	3kw
	A Axis Servo Motor	2.5kw	2.5kw	2.5kw	2.5kw
	B Axis Servo Motor	2.5kw	2.5kw	3kw	3kw
	Total Power	48kw	48kw	50kw	50kw
Accuracy	Positioning accuracy	±0.025mm/0.01mm	±0.025mm/0.01mm	±0.03mm/0.02mm	±0.03mm/0.02mm
	Repeat positioning accuracy	±0.02mm/0.01mm	±0.02mm/0.01mm	±0.03mm/0.02mm	±0.03mm/0.02mm
Cooling System	Cooling Liquid Pressure	0-48Mpa	0-48Mpa	0-48Mpa	0-48Mpa
	Cooling Liquid Flow	0-150L/min	0-150L/min	0-150L/min	0-150L/min
Table Specifications	Max. Table Load Capacity	3 ton	5 ton	10 ton	20 ton
	Resolution	0.001°	0.001°	0.001°	0.001°
	Measurement(L*W)	1000*1000mm	1200*1000mm	1600*1400mm	1800*2200mm
	T-slot	22mm	22mm	28mm	28mm
Measurement & Weight	Machine Measurement (L*W)	4000*5750mm	4000*5800mm	7000*7000mm	7000*7000mm
	Machine Height(H)	4600mm	4600mm	5000mm	5000mm
	Machine Weight	25 ton	25 ton	38 ton	40 ton
System	CNC System	FANUC Oi-MF PLUS	FANUC Oi-MF PLUS	FANUC Oi-MF PLUS	FANUC Oi-MF PLUS

HPS-A450

FULL-AUTOMATIC MIRROR EDM MACHINE



0.02 mm

The corner cleaning ability can reach 0.02mm

0.002 mm

The machining flatness within 0.002mm

0.005 mm

Batch processing stability within 0.005mm

Connector

Significant advantages in processing connectors



Automatic lifting of Working oil tank

High-gloss mirror circuit (Best surface finish) Ra 0.07

Max. machining speed 750 mm³/min

TECHNICAL PARAMETERS

ITEM	Unit	HPS-A450	HPS-A650	HPS-A850
X/Y/Z Axis Working Travel	mm	450*350*300	600*500*400	800*500*400
Working Oil Tank Size (L×W×H)	mm	900*690*350	1400*950*500	1600*1050*550
Table Size (L×W)	mm	650*450	800*500	1050*600
High-Gloss Mirror Circuit (Best Surface Finish)	Ra	0.07	0.1	0.1
Max. Machining Speed	mm ³ /min	750	750	750
Min. Electrode Loss	%	0.1	0.1	0.1
Distance From Electrode Tip To Table	mm	250-550	300 ~ 650	550 ~ 950
Max. Electrode Load Capacity	Kg	50	50	80
Max. Worktable Load Capacity	Kg	500	1500	2000
Machine Weight (Including Oil Tank)	Kg	4500	4000	5000
Machine Dimension (L×W×H)	mm	2400*2100*2700	2800*2600*2600	3200*2900*2800
Max. machining current	A	75 (Optional 100A)	75 (Optional 100A)	75 (Optional 100A)
Positioning accuracy	um	5	5	5
Repeat positioning accuracy	um	2	2	2
Drive type		Servo motor (Optional Linear motor)	Servo motor (Optional Linear motor)	Servo motor (Optional Linear motor)

HPS-B45S

HIGH SPEED MIRROR EDM MACHINE



5

FIVE YEAR QUALITY ASSURANCE

High-gloss mirror circuit (Best surface finish) Ra 0.07

Max. machining speed 750 mm³/min

Material combination

Smoothness

Machining area

Spark position

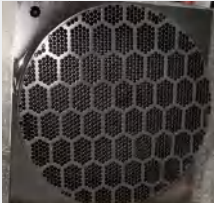
THE POWERFUL GENERATOR AND PERFECT PRECISION FOR ACCURATE WORKS

◆ Machine No: HPS-B45S

◆ Electrode Materials: Graphite(Toyo-8)

◆ Power: 12KVA

◆ Workpiece material: Steel(420H)



◆ Electrode diameter 150.0mm, processing depth 2.0mm, spark gap 0.1mm on one side, final glossiness Ra0.85

◆ Processing time 21.5 hours, electrode loss 0.08mm

TECHNICAL PARAMETERS

ITEM	Unit	HPS-B45S
X/Y/Z Axis Working Travel	mm	450*350*300
Working Oil Tank Size (L×W×H)	mm	900*640*410
Table Size (L×W)	mm	700*400
High-Gloss Mirror Circuit (Best Surface Finish)	Ra	0.07
Max. Machining Speed	mm ³ /min	750
Min. Electrode Loss	%	0.1
Distance From Electrode Tip To Table	mm	100-400
Max. Electrode Load Capacity	Kg	50
Max. Worktable Load Capacity	Kg	400
Machine Weight (Including Oil Tank)	Kg	3000
Machine Dimension (L×W×H)	mm	2000*2200*2380
Max. machining current	A	75 (Optional 100A)
Positioning accuracy	um	5
Repeat positioning accuracy	um	2
Drive type		Servo motor (Optional Linear motor)

SXKH | 09

SXKH | 10

HPS-850

SINGLE HEAD EDM MACHINE

Remote Diagnostic Function

Improve protection through remote diagnostic function.



Remote assistance

Ra
0.1

High-gloss mirror circuit (Best surface finish) Ra 0.1

750
mm³/min

Max. machining speed
750 mm³/min



TECHNICAL PARAMETERS

ITEM	UNIT	HPS-540	HPS-640	HPS-850	HPS-1060	HPS-1260
X/Y/Z Axis Working Travel	mm	500*400*300	600*400*350	800*500*400	1000*600*400	1200*600*450
Working Oil Tank Size (L×W×H)	mm	1300*920*450	1612*985*540	1800*1100*570	1800*1300*600	2000*1300*600
Table Size (L×W)	mm	800*500	900*500	1150*600	1380*800	1380*800
High-Gloss Mirror Circuit (Best Surface Finish)	Ra	0.1	0.1	0.1	0.1	0.1
Max. Machining Speed	mm ³ /min	750	750	750	750	750
Min. Electrode Loss	%	0.1	0.1	0.1	0.1	0.1
Distance From Electrode Tip To Table	mm	300-600	350-700	500-900	500-900	500-950
Max. Electrode Load Capacity	Kg	100	150	180	200	200
Max. Worktable Load Capacity	Kg	1800	2000	3000	4000	4000
Machine Weight (Including Oil Tank)	Kg	3000	3700	4800	5200	7000
Machine Dimension (L×W×H)	mm	1640*2200*2250	2040*2320*2530	2280*2600*2690	2300*2850*3000	2300*2850*3000
Max. machining current	A	75 (Optional 100A)	75 (Optional 100A)	75 (Optional 100A)	75 (Optional 100A)	75 (Optional 100A)
Positioning accuracy	um	5	5	5	5	5
Repeat positioning accuracy	um	2	2	2	2	2

FEATURES

- ◆ The seat adopts box-shaped structure design, with an ultra wide trail span, allowing the X and Y axis to run continuously and form a stable parallelism with the tabletop, and achieving precise machining of both large and small molds.
- ◆ The square design of the machine head (BOX) can withstand external forces from the direction and maintain precise machining of the original positioning. Ensure that the precision of heavy-duty electrode machining is not affected.
- ◆ Three axis adopts Japanese Panasonic absolute servo motors, which is fully digital controlled and equipped with an encoder. It can feed back the electrode operation to the drive at any time, allowing the drive to control the motor's operation more accurately. With fast response, small rotational inertia, smooth operation, low noise, no radio interference, no shaking phenomenon and easy maintenance, the machine performance is effectively improved, with characteristics of strong sensitivity and controllability.
- ◆ X, Y, and Z axis all use Taiwan grinding-grade ball screws.
- ◆ X axis and Y axis are designed with full-enclosed reinforced slides, and X-axis rail distance is greater than Y-axis stroke, to ensure the parallelism between the entire stroke of X/ Y axis and the table.
- ◆ Through long-lasting and stable liquid temperature management and configuring the processing cooling system, ensure the machine processing will not be affected by external conditions or processing status changes to maximize the machine's general adaptability to various processing conditions and processing accuracy.
- ◆ Complete peripheral facilities, such as automatic fire extinguishing devices and surface sensing devices for processing fluids, to provide a safe environment.
- ◆ The body is made of FC30 cast iron, which has undergone high-temperature annealing and natural aging treatment.



HPS-1880II

DOUBLE HEAD EDM MACHINE

Ra
0.1

High-gloss mirror circuit (Best surface finish) Ra 0.1

750
mm³/min

Max. machining speed
750 mm³/min



INTELLIGENT EXPERT SYSTEM

With independent core technology, we are specialized in the R&D and manufacturing of EDM machines. Integrating high-performance EDM processing technology, we are committed to the development direction of artificial intelligence to create higher efficiency for customers.

TECHNICAL PARAMETERS

ITEM	UNIT	HPS-1260II	HPS-1470II	HPS-1680II	HPS-1880II	HPS-2110II	HPS-2510II	HPS-3510II
X/Y/Z Axis Working Travel	mm	600*500*400	850*700*450	1100*800*500	1200*800*600	1400*800*600	1800*900*650	2600*900*650
Working Oil Tank Size (L×W×H)	mm	2000*1200*600	2400*1340*700	2628*1521*700	3000*1540*700	3200*1650*740	3800*1800*700	4500*1800*700
Table Size (L×W)	mm	1200*600	1500*800	1700*1000	2000*1000	2500*1200	2700*1200	3500*1200
High-Gloss Mirror Circuit (Best Surface Finish)	Ra	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Max. Machining Speed	mm ³ /min	750	750	750	750	750	750	750
Min. Electrode Loss	%	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Distance From Electrode Tip To Table	mm	330-730	550-1000	600-1100	600-1150	600-1200	650-1300	650-1300
Max. Electrode Load Capacity	Kg	150	200	220	250	300	300	300
Max. Worktable Load Capacity	Kg	3000	4000	6000	7000	7000	10000	15000
Machine Weight (Including Oil Tank)	Kg	8800	10000	12500	15000	17000	19500	26000
Machine Dimension (L×W×H)	mm	2460*2320*2610	3020*2900*3190	3600*3800*3850	3700*3800*3850	3900*4500*4400	4200*4500*44400	5200*4500*4400
Max. machining current	A	75 (Optional 100A)	75 (Optional 100A)	75 (Optional 100A)	75 (Optional 100A)	75 (Optional 100A)	75 (Optional 100A)	75 (Optional 100A)
Positioning accuracy	um	5	5	5	5	5	5	5
Repeat positioning accuracy	um	2	2	2	2	2	2	2

DF450S

SINGLE-AXIS MIRROR ZNC EDM MACHINE



Ra
0.28

High-gloss mirror circuit (Best surface finish) Ra0.28

Ra
0.15

Best surface finish with orbital head Ra0.15

450
mm³/min

Max. machining speed 450 mm³/min

■ TECHNICAL PARAMETERS

ITEM	Unit	DF450S	DF540S	DF650S
X/Y/Z Axis Working Travel	mm	450*350*200	500*400*220	600*500*220
Working Oil Tank Size (L×W×H)	mm	1060*650*440	1160*690*500	1320*800*500
Table Size (L×W)	mm	700*400	800*450	900*500
High-Gloss Mirror Circuit (Best Surface Finish)	Ra	0.28	0.28	0.28
Best Surface Finish With Orbital Head	Ra	0.15	0.15	0.15
Max. Machining Speed	mm ³ /min	450	450	450
Min. Electrode Loss	%	0.1	0.1	0.1
Distance From Electrode Tip To Table	mm	200-500	200-600	300-700
Max. Electrode Load Capacity	Kg	100	150	150
Max. Worktable Load Capacity	Kg	900	1000	1000
Machine Weight (Including Oil Tank)	Kg	1460	1650	2000
Machine Dimension (L×W×H)	mm	2900*1350*2150	3300*1600*2420	3500*2250*2480

HPX-435

HIGH SPEED CNC EDM MACHINE



Ra
0.13

High-gloss mirror circuit (Best surface finish) Ra0.13

500
mm³/min

Max. machining speed 500 mm³/min

■ TECHNICAL PARAMETERS

ITEM	Unit	HPX-435
X/Y Axis Working Travel	mm	400*350
Z+W Axis travel	mm	Z Axis 200+W Axis 200
Working Oil Tank Size (L×W×H)	mm	800*600*400
Table Size (L×W)	Ra	700*400
High-Gloss Mirror Circuit (Best Surface Finish)	mm ³ /min	0.13
Max. Machining Speed	%	500
Min. Electrode Loss	mm	0.1
Distance From Electrode Tip To Table	Kg	100-400
Max. Electrode Load Capacity	Kg	50
Max. Worktable Load Capacity	Kg	400
Machine Weight (Including Oil Tank)	mm	1300
Machine Dimension (L×W×H)	A	2500*1500*2500
Max. machining current	um	50
Positioning accuracy	um	7
Repeat positioning accuracy	um	4

HPX-T45

HIGH SPEED MIRROR EDM MACHINE



High-gloss mirror circuit (Best surface finish) Ra0.1



Max. machining speed 500 mm³/min

■ TECHNICAL PARAMETERS

ITEM	Unit	HPX-T45
X/Y/Z Axis Working Travel	mm	450*350*300
Working Oil Tank Size (L×W×H)	mm	850*600*380
Table Size (L×W)	mm	700*400
High-Gloss Mirror Circuit (Best Surface Finish)	Ra	0.1
Max. Machining Speed	mm³/min	500
Min. Electrode Loss	%	0.1
Distance From Electrode Tip To Table	mm	100-400
Max. Electrode Load Capacity	Kg	50
Max. Worktable Load Capacity	Kg	400
Machine Weight (Including Oil Tank)	Kg	2500
Machine Dimension (L×W×H)	mm	1780*2500*2500
Max. machining current	A	50
Positioning accuracy	um	5
Repeat positioning accuracy	um	2

HPX-C45S

FULLY AUTOMATIC MIRROR EDM MACHINE



High-gloss mirror circuit (Best surface finish) Ra0.1



Max. machining speed 500 mm³/min

■ TECHNICAL PARAMETERS

ITEM	Unit	HPX-C45S
X/Y/Z Axis Working Travel	mm	450*300*300
Working Oil Tank Size (L×W×H)	mm	800*600*350
Table Size (L×W)	mm	700*400
High-Gloss Mirror Circuit (Best Surface Finish)	Ra	0.1
Max. Machining Speed	mm³/min	500
Min. Electrode Loss	%	0.1
Distance From Electrode Tip To Table	mm	300-600
Max. Electrode Load Capacity	Kg	120
Max. Worktable Load Capacity	Kg	1500
Machine Weight (Including Oil Tank)	Kg	2000
Machine Dimension (L×W×H)	mm	1250*2200*2300
Max. machining current	A	50
Positioning accuracy	um	5
Repeat positioning accuracy	um	2

HPX-800

SINGLE HEAD EDM MACHINE



High-gloss mirror circuit (Best surface finish) Ra 0.13



Max. machining speed 500 mm³/min

■ TECHNICAL PARAMETERS

ITEM	Unit	HPX-500	HPX-600	HPX-800	HPX-1200	HPX-1400	HPX-1800
X/Y/Z Axis Working Travel	mm	500*400*300	650*400*350	850*500*400	1200*600*500	1400*700*500	1800*800*600
Working Oil Tank Size (L×W×H)	mm	1300*880*540	1600*900*580	1800*1000*600	2200*1150*570	2550*1300*700	3500*1800*650
Table Size (L×W)	mm	800*500	900*500	1100*600	1300*800	1500*900	2000*1000
High-Gloss Mirror Circuit (Best Surface Finish)	Ra	0.13	0.13	0.13	0.13	0.13	0.13
Max. Machining Speed	mm³/min	500	500	500	500	500	500
Min. Electrode Loss	%	0.1	0.1	0.1	0.1	0.1	0.1
Distance From Electrode Tip To Table	mm	700	750	900	500-950	690-1190	600-1200
Max. Electrode Load Capacity	Kg	120	150	180	180	400	180
Max. Worktable Load Capacity	Kg	1800	2000	3000	3500	5000	7000
Machine Weight (Including Oil Tank)	Kg	3000	3700	5000	6000	8000	13000
Machine Dimension (L×W×H)	mm	2300*2770*2650	2040*2320*2530	2280*2600*2690	2600*3065*3100	3500*4400*3310	3800*4900*3700
Max. machining current	A	50	50	50	50	50	50
Positioning accuracy	um	5	5	5	5	5	5
Repeat positioning accuracy	um	2	2	2	2	2	2

HPX-1200II

DOUBLE HEAD EDM MACHINE



High-gloss mirror circuit (Best surface finish) Ra 0.13



Max. machining speed 500 mm³/min

■ TECHNICAL PARAMETERS

ITEM	Unit	HPX-1200II	HPX-1400II	HPX-1800II
X/Y/Z Axis Working Travel	mm	600*500*400	850*700*450	1200*800*600
Working Oil Tank Size (L×W×H)	mm	2000*1250*600	2250*1300*700	3500*1800*650
Table Size (L×W)	mm	1300*600	1500*900	2000*1000
High-Gloss Mirror Circuit (Best Surface Finish)	Ra	0.13	0.13	0.13
Max. Machining Speed	mm³/min	500	500	500
Min. Electrode Loss	%	0.1	0.1	0.1
Distance From Electrode Tip To Table	mm	550-1000	600-1150	600-1200
Max. Electrode Load Capacity	Kg	180	400	450
Max. Worktable Load Capacity	Kg	3500	4000	6500
Machine Weight (Including Oil Tank)	Kg	7000	8700	14000
Machine Dimension (L×W×H)	mm	3530*3400*3370	3800*3650*3430	3890*4400*3590
Max. machining current	A	50	50	50
Positioning accuracy	um	5	5	5
Repeat positioning accuracy	um	2	2	2

CORE CONFIGURATION

Standard Configuration



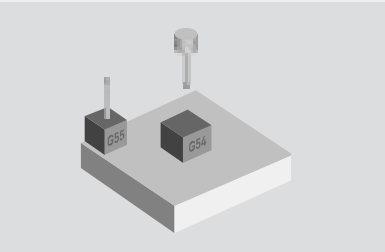
◆ Intelligent Expert System



◆ Metal keyboard



◆ Multi-function hand control box



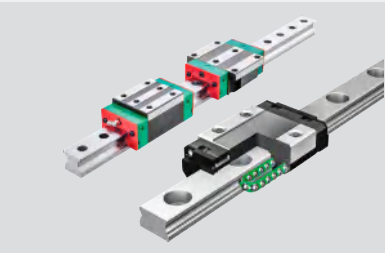
◆ Multi position automatic centering



◆ Panasonic servo motor and drive



◆ Taiwan HIWIN or Japan THK screw



◆ Taiwan HIWIN or Japan THK guide rail



◆ Electrode clamp



◆ Fine grained permanent magnet suction cup

Optional Configuration



Table top four axis



EROWA fixture



Oil cooler



C axis



Movement head



Voltage stabilizer



Electrode library

SUPERIOR PERFORMANCE



Linux industrial level operating platform, free from copyright restrictions.



Large 64GB memory for storing more data.



Built-in core database, icon display, easy to operate.



Cluster networking, with convenient management.



Remote assistance, one-touch calling and immediate response.



Touch operation

Configuration

- ◆ 19" touch capacitive display
- ◆ Industrial level metal crystal keypad + touchpad
- ◆ Multi-function hand control box (automatic contact counting, clearing, 1/2 and coordinate system switching)

Circuit

- ◆ High-gloss mirror circuit (best finish Ra0.1)
- ◆ Ultra low loss circuit
- ◆ Ultra cemented carbide circuit
- ◆ Small current finishing circuit, minimum IP0.1
- ◆ Graphite circuit

Machining Module

- ◆ Deep bone position machining module
- ◆ Large area machining module
- ◆ Screw machining module
- ◆ Helical gear machining module (C-axis needs to be equipped)

Other Functions

- ◆ Support five-axis linkage
- ◆ Minimum drive 0.001mm
- ◆ Accidental power-off protection system (accidental power-off machining coordinate memory protection)
- ◆ Anti-carbon buildup, arc release and automatic cleaning of machining surface
- ◆ The maximum movement speed of the screw is 5m/min

FEATURES

- ◆ Externally connect the electrode library of the Robot.
- ◆ The X/Y/Z three-axis adopts Japanese THK screw and Japanese Panasonic absolute servo motor, ensuring the strong performance of the machine tool μ-grade high precision, and the precision stability and retention in long-term use.
- ◆ The column adopts a one-stage structure, which makes the Z axis more rigid and allows for easy and flexible processing of heavy-duty electrodes.
- ◆ Immersion processing is adopted, to effectively ensure processing accuracy and surface finish.
- ◆ The whole machine adopts centralized lubrication, providing uniform lubrication on all rail surfaces, with smooth and long-lasting axial movement accuracy.
- ◆ Complete peripheral facilities, such as automatic fire extinguishing devices and surface sensing devices for processing fluids, to provide a safe environment.
- ◆ The body is made of FC30 cast iron, which has undergone high-temperature annealing and natural aging treatment.



Electrode library combination

TECHNICAL PARAMETERS OF ELECTRIC CONTROL BOX

ITEM	Unit	HPS-T750
Maximum machining current	A	75
Best surface finish (Ra)	μm	0.07
Minimum electrode loss	%	0.1
Maximum machining speed	mm ³ /min	800
Net weight	Kg	350
Power (individual electrical box)	KW	15
Overall size (L×W×H)	mm	550×1800×1950

ZNC EDM

WITH AC SERVO MOTOR (INTEGRATED TYPE)



■ TECHNICAL PARAMETERS

ITEM		UNIT	ZNC320Y	ZNC350Y	ZNC450Y	ZNC540Y
Worktable Size(LxW)		mm	500x300	630x350	700x450	800x500
Coordinate Axes Travel	X Axis	mm	300	350	450	500
	Y Axis	mm	200	250	350	400
	Z Axis	mm	200	200+200	250+250	250+250
Worktable Internal Size(LxWxH)		mm	785x540x320	875x540x380	1205x600x450	1255x685x480
Max. Electrode Weight		kg	50	75	75	100
Max. Worktable Load Capacity		kg	450	500	700	1000
Distrance From Electrode Plate To Worktable	Max	mm	560	650	700	760
	Min	mm	360	250	200	260
Z axis Two-direction Positioning Accuracy A		mm	0.009/300mm	0.009/300mm	0.009/300mm	0.009/300mm
Z Axis One-direction Re-positioning Accuracy R+ and R-		mm	0.004/300mm	0.004/300mm	0.004/300mm	0.004/300mm
Z Axis Of The Reverse Difference (Loss of Momentum) B		mm	0.006/300mm	0.006/300mm	0.006/300mm	0.006/300mm
Oil Tank Capacity		L	400	450	500	550
Machine Weight		kg	1200	1300	1600	1900
Machine Dimension (LxWxH)		mm	1575x1180x2320	1605x1265x2500	1920x1580x2380	2070x1635x2450

ELECTRIC CONTROL CABINET		
ITEM	UNIT	AC SERVO
Max. Processing Current	A	30
Max. Processing Speed	Mm³/min	300
Min Electrode Consumption		≤0.1%
Optinum Roughness	μm	0.15
Total Input Power	kw	10

ZNC EDM

(AC SERVO SPLIT TYPE)



■ TECHNICAL PARAMETERS

ITEM		UNIT	ZNC320	ZNC350	ZNC450	ZNC540	ZNC760
Worktable Size (LxW)		mm	500x300	630x350	700x450	800x500	1200x700
Coordinate Axes Travel	X Axis	mm	300	350	450	500	700
	Y Axis	mm	200	250	350	400	600
	Z Axis	mm	200	200+200	250+250	250+250	300+300
Worktable Internal Size (LxWxH)		mm	835x550x320	885x570x380	1180x620x450	1255x705x480	1940x1050x600
Max. Electrode Weight		kg	50	75	75	100	150
Max. Worktable Load Capacity		kg	450	500	700	1000	2000
Distrance From Electrode Plate To Worktable	Max	mm	560	650	700	760	1000
	Min	mm	350	250	200	260	400
Z Axis Two-direction Positioning Accuracy A		mm	0.008/300mm				
Z Axis One-direction Re-positioning Accuracy R+ and R-		mm	0.004			0.006	
Z Axis Of The Reverse Difference (Loss Of Momentum) B		mm	0.006			0.008	
Oil Tank Capacity		L	350	500	600	650	800
Machine Weight		kg	1200	1300	1600	1900	3500
Machine Dimension (LxWxH)		mm	1320x1150x2060	1350x1210x2080	1485x1420x1980	1600x1600x2030	2100x2000x2800

ELECTRIC CONTROL CABINET		
ITEM	UNIT	AC SERVO
Max. Processing Current	A	30
Max. Processing Speed	Mm³/min	300
Min Electrode Consumption		≤0.1%
Optinum Roughness	μm	0.15
Total Lnput Power	kw	10

CNC EDM DRILL



TECHNICAL PARAMETERS			
ITEM	UNIT	CNC4030	CNC5040
Worktable Size(LxW)	mm	400x600	440x630
Worktable Stroke	mm	300x400	400x500
Coordinate Axes Travel	Z Axis	mm	350
	W Axis	mm	300
Max. Distance From Guider To Worktable	mm	50-350	200-500
Max. Machining Current	A	30	30
Electrode Diameter	mm	Φ0.2-φ3.0	Φ0.2-φ3.0
Max. Capacity Of Worktable	kg	200	200
Working Liquid		Water	Water
Power Supply		380V/50HZ	380V/50HZ
Total Input Power	kw	3.5	3.5
Machine Dimension (LxWxH)	mm	1200x1000x2170	1300x1075x2320
Machine Weight	kg	800	900
Digital Display		Three Axes Digital	Three Axes Digital

CNC WIRE CUT EDM

MACHINE BH TYPE (OPTIONAL: AC SERVO CONTROL)



TECHNICAL PARAMETERS

ITEM	UNIT	BH-320	BH-400	BH-500	BH-630
Worktable Size(LxW)	mm	760×520	850×600	1000×750	1170×830
Worktable Travel(XxY)	mm	400×320	500×400	630×500	800×630
Max. Cut Thickness(Z)	mm	250	250	300	300
Max. Capacity Loading	kg	300	500	800	1000
Max. Cutting Speed	mm ² / min	180			
Max. Current	A	8			
Process Roughness (Ra.)	Ra(um)	One Cut≤2.3um Second Cut≤1.6um Thirid Cut ≤1.0um			
Cutting Accuracy	mm	straight line 0.005 octagonal 0.01			
Jump Accuracy		0.01mm/0-200mm 0.015/0-350mm 0.02mm/0-500mm			
Machine Taper	mm	±3°/80 (Optional ±10°/50)			
Wire Diameter Range	mm	0.12-0.25 (standard 0.18)			
Motor Drive System	/	X,Y STEP MOTOR(OPTIONAL:AC SERVO MOTOR)			
Water Tank	/	High Pressure WEDM-LS filter Volume 100L			
Working Liquid		Water Based Liquid			
Consumed Power	kVA	≤3.5			
Power Supply	/	380V/50HZ/3PH			
Machine Weight	kg	1860	2160	2750	3450
Machine Dimension	mm	1570×1100×1700	1600×1220×1700	1850×1400×1800	2070×1655×2060

SUPER DRILL EDM



TECHNICAL PARAMETERS			
ITEM	UNIT	BH4030	BH5040
Worktable Size (LxW)	mm	400x600	440x630
Worktable Stroke	mm	300x400	400x500
Coordinate Axes Travel	Z Axis	mm	400
	W Axis	mm	350
Max. Distance From Guider To Worktable	mm	85-435	235-585
Max. Machining Current	A	30	30
Electrode Diameter	mm	Φ0.3--φ3.0	Φ0.3--φ3.0
Max. Capacity Of Worktable	kg	200	300
Working Liquid		Water	Water
Power Supply		380V/50HZ	380V/50HZ
Total Input Power	kw	3.5	3.5
Machine Dimension (LxWxH)	mm	1060x1050x1950	1250x1150x2100
Machine Weight	kg	650	750
Digital Display		Two Axis digital (Optional:Three Axes Digital)	
Digital Display		Yes (Optional)	

HIGH-PRECISION LATHE

Our lathe are designed for precision, stability, and efficiency. Built with a rigid structure and high-quality components, they ensure accurate turning, threading, facing, and drilling operations across a wide range of materials. Ideal for both small-batch and large-scale production, each model is engineered for easy operation, long service life, and minimal maintenance. Optional CNC control systems provide enhanced automation and repeatability, making them suitable for various industrial and workshop applications.



Specification
0632*1000/750
0636*1000/750
6236*1000
6241*1000/1500/2000
6246*1000/1500/2000
6251*1000/1500/2000/3000
6256*1000/1500/2000/3000

PRECISION GRINDING MACHINE

Our surface grinding machine is built for high-precision finishing and superior surface quality. Designed with a rigid structure and smooth table movement, it ensures consistent and accurate grinding of metal and non-metal materials. Ideal for tool rooms, mold workshops, and production lines, this machine offers stable performance, easy operation, and fine adjustment control. Whether for flat surfaces or complex workpieces, it delivers excellent repeatability and long service life.



Specification
450*150
455*200
600*300
800*400
1000*300
1000*400
1000*500
1250*700

PRECISION MILLING MACHINE

Our milling machine is engineered for versatility, accuracy, and long-lasting performance. Suitable for a wide range of milling tasks—including face milling, slotting, drilling, and contouring—it provides exceptional rigidity and smooth operation. With a solid construction and precision-ground components, this machine ensures high-quality machining results across metals and other materials. Ideal for workshops, tool rooms, and production environments, it offers easy operation, low maintenance, and reliable performance for both beginners and experienced machinists.



Specification
745*400
760*400
860*400
1010*400
760*380
660*380
660*450
1000*360
1200*480

RADIAL DRILLING MACHINE

Our radial drilling machine is designed for heavy-duty drilling with exceptional flexibility and precision. Featuring a robust column, adjustable radial arm, and smooth gear-driven spindle, it allows for accurate drilling over large workpieces without repositioning. Ideal for workshops and industrial applications, this machine supports a wide range of operations including drilling, boring, reaming, and tapping. Its user-friendly controls and durable construction ensure stable performance, long service life, and efficient operation across demanding tasks.



Specification
3040*13/2
3050*16/1
3063*20/1
3080*25/1