

IPRETECH

MACHINERY COMPANY LIMITED

YOUR TRUSTWORTHY CNC EDM WIRECUT, EDM EROSION DIE SINKING, EDM SUPERHOLE DRILL EXCLUSIVE MANUFACTURE FACTORY



TradeMark Brand Ipretech®
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Ipretech machinery company limited is an integrated research & development, manufacturing, Exp & Imp as one of the professional CNC EDM manufacturer at Jiangsu, China. All of machines are independent researched and developed, designed and manufactured by our advanced design idea & mindset.

Under the leadership of our boss Mr. Jia Yi, we have gained two quality systems --- ISO9001 Certification and CE European Standard Certification. Also, we observe contracts and keep promises certifications. Our exporting market has covered the United States, America, Mexico, Brazil, Argentina, Chile, Indonesia, Malaysia, Vietnam, India, Pakistan, Russia, Turkey, Egypt, Italy, Poland, the Czech Republic, Spain, Hungary and the United Kingdom etc. Ipretech machinery has grown up to be one of the well-known famous EDM manufacturer and exporter from China.

Anyway, Ipretech Machinery will always keep our business philosophy "quality priority, R&D innovation, prompt shipment, dedicated after-sale Service and within 12 hrs response" all the Ipretech staff will be devoting themselves into working for you.

嘉逸

Main Spare Parts are all from world famous supplier:



Enterprise Culture

- Reputation: the foundation of an enterprise
- Quality: the foundation of an enterprise survival
- Brand: the foundation of an enterprise growth
- Service: the foundation of an enterprise prosperity

Details determine success or failure, attitude determines everything.

Processing facilities



Precise Multi Cut/ Medium Speed IPM series (Servo / Step available)



Real Automatic Cutting System, No More Parameter Setting Change
 Japan Panasonic Servo Motor & Driver
 Hiwin Linear Guiderail, NCM double nuts screw, Delixi Inverter
 Fast Cutting Speed **300 mm²/min**
 High Cutting Accuracy: **0.005mm**
 Best Surface Roughness **Ra:0.8**



Material:	SKD-11
Thickness:	28mm
No.of Cut:	3 times
Accuracy:	0.005mm
Roughness:	Ra:0.9



Material:	SKD-11
Thickness:	10mm
No.of Cut:	3 times
Accuracy:	0.003mm
Roughness:	Ra:0.8

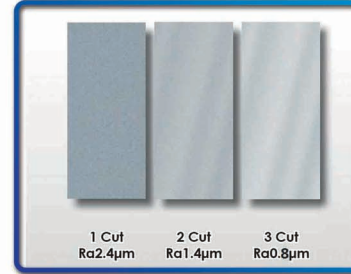


Material:	SKD-11
Thickness:	28mm
No.of Cut:	3 times
Accuracy:	0.005mm
Roughness:	Ra:0.8

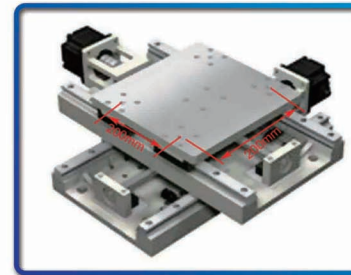


Material:	SKD-11
Thickness:	35mm
No.of Cut:	3 times
Accuracy:	0.005mm
Roughness:	Ra:1.0

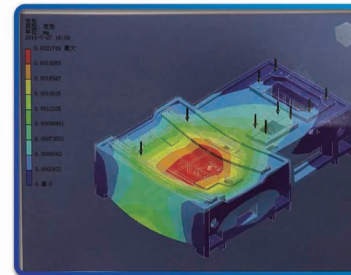
Servo Model Quality Analysis :



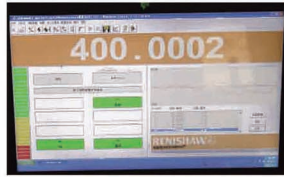
IPM320, IPM400, IPM500, IPM630, IPM800 use the multi cut model , it cuts once , and trim for 2nd, 3rd ...to achieve a better cutting accuracy and surface finishing roughness



Positioning accuracy
 Workpiece thickness: 10mm
 Materials: Cr12
 Positioning accuracy:0.005mm
 Re-positioning accuracy:0.002mm



Max deformation is under the worktable, at the middle of LM guideway, max deformation is 0.002mm at 1000kgs



HIWIN
Linear Motion Products & Technology

Full Closed Loop controller :



Specification	Unit	IPM320/C	IPM400/C	IPM500	IPM630	IPM800
Worktable size	mm	460*740	540*840	640*1020	750*1180	1050*1420
X-Y Stroke	mm	320*400	400*500	500*630	630*800	800*1000
Taper angle	°	±6	±6	±6	±6	±6
Cutting thickness	mm	280	280	350	350	350
Best roughness	um	1.0	1.0	1.0	1.0	1.0
Cutting Speed	mm2/min	200	200	200	200	200
Driving motor		Stepper motor	Stepper motor	Stepper motor	Stepper motor	Stepper motor
Machine weight	KG	2450	2650	3150	4200	5650
Overall size	mm	1700*1250*2150	1960*1620*2160	2120*1760*2320	2430*2060*2350	2650*2250*2530
Wire diameter	mm	0.12-0.20	0.12-0.20	0.12-0.20	0.12-0.20	0.12-0.20
Wire running speed	m/s	11.5H(adjustable)	11.5H(adjustable)	11.5H(adjustable)	11.5H(adjustable)	11.5H(adjustable)
Cutting accuracy	mm	0.008	0.008	0.008	0.008	0.008
Maximum current	A	12	12	12	12	12
Power supply		3 Phase 380V	3 Phase 380V	3 Phase 380V	3 Phase 380V	3 Phase 380V
Worktable moving pulse equivalent		0.001	0.001	0.001	0.001	0.001
Worktable guide rail		Taiwan Hiwin Origin	Taiwan Hiwin Origin	Taiwan Hiwin Origin	Taiwan Hiwin Origin	Taiwan Hiwin Origin
Worktable screw		NMC Ball screw	NMC Ball screw	NMC Ball screw	NMC Ball screw	NMC Ball screw
Worktable Bearing		NSK/NTN	NSK/NTN	NSK/NTN	NSK/NTN	NSK/NTN
Worktable motor(option)		Changzhou BM	Changzhou BM	Changzhou BM	Changzhou BM	Changzhou BM
Wire feed screw		NMC	NMC	NMC	NMC	NMC
Wire feed bearing		NTN	NTN	NTN	NTN	NTN
Wire feed motor		Shanghai GW	Shanghai GW	Shanghai GW	Shanghai GW	Shanghai GW
Pulley		Black Diamond	Black Diamond	Black Diamond	Black Diamond	Black Diamond
Pulley bearing		NSK	NSK	NSK	NSK	NSK
Water nozzle		Rubine Diamond	Rubine Diamond	Rubine Diamond	Rubine Diamond	Rubine Diamond
Oil pump		Automatic oiling	Automatic oiling	Automatic oiling	Automatic oiling	Automatic oiling

Specification	Unit	IPM320-S	IPM400-S	IPM500-S	IPM630-S	IPM800-S
Worktable size	mm	460*740	540*840	640*1020	750*1180	1050*1420
X-Y Stroke	mm	320*400	400*500	500*630	630*800	800*1000
Taper angle	°	±6	±6	±6	±6	±6
Cutting thickness	mm	280	280	350	350	350
Best roughness	um	0.8	0.8	0.8	0.8	0.8
Cutting Speed	mm2/min	300	300	300	300	300
Driving motor		Japan Panasonic	Japan Panasonic	Japan Panasonic	Japan Panasonic	Japan Panasonic
Machine weight	KG	2450	2650	3150	4200	5650
Overall size	mm	1700*1250*2150	1960*1620*2160	2120*1760*2320	2430*2060*2350	2650*2250*2530
Wire diameter	mm	0.12-0.20	0.12-0.20	0.12-0.20	0.12-0.20	0.12-0.20
Wire running speed	m/s	11.5H(adjustable)	11.5H(adjustable)	11.5H(adjustable)	11.5H(adjustable)	11.5H(adjustable)
Cutting accuracy	mm	0.005	0.005	0.005	0.005	0.005
Maximum current	A	12	12	12	12	12
Power supply		3 Phase 380V	3 Phase 380V	3 Phase 380V	3 Phase 380V	3 Phase 380V
Worktable moving pulse equivalent		0.001	0.001	0.001	0.001	0.001
Worktable guide rail		Taiwan Hiwin Origin	Taiwan Hiwin Origin	Taiwan Hiwin Origin	Taiwan Hiwin Origin	Taiwan Hiwin Origin
Worktable screw		NMC Ball screw	NMC Ball screw	NMC Ball screw	NMC Ball screw	NMC Ball screw
Worktable Bearing		NSK/NTN	NSK/NTN	NSK/NTN	NSK/NTN	NSK/NTN
Worktable motor(option)		Changzhou BM	Changzhou BM	Changzhou BM	Changzhou BM	Changzhou BM
Wire feed screw		NMC	NMC	NMC	NMC	NMC
Wire feed bearing		NTN	NTN	NTN	NTN	NTN
Wire feed motor		Shanghai GW	Shanghai GW	Shanghai GW	Shanghai GW	Shanghai GW
Pully		Black Diamond	Black Diamond	Black Diamond	Black Diamond	Black Diamond
Pully bearing		NSK	NSK	NSK	NSK	NSK
Water nozzle		Ceramic diamond	Ceramic diamond	Ceramic diamond	Ceramic diamond	Ceramic diamond
Oil pump		Automatic oiling	Automatic oiling	Automatic oiling	Automatic oiling	Automatic oiling



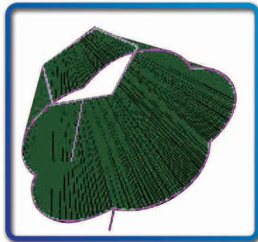
Latest Patented **Super Speed IPM5000**

available on sales !!!

Real Automatic Cutting System, No More

Parameter Setting Change available on sales !!!

Full Servo motors also available !!!



options:
±15, ±30, ±45, ±60



options:
Taiwan Origin
HiWin Linear Guide Railway



options:
full cover, eco & user
friendly

Specifications	Unit	DK7720	DK7725	DK7735	DK7745	DK7745F	DK7750	DK7750F	DK7763	DK7763F	DK7780	DK77100	DK77120
Worktable size	mm	280*430	340*520	470*720	580*820	580*930	660*1040	660*1140	750*1150	750*1360	1000*1370	1200*1720	1400*1950
X-Y Stroke	mm	200*250	250*320	350*450	450*550	450*630	500*630	500*800	630*800	630*1000	800*1000	1000*1200	1200*1600
Cutting thickness	Mm	300	400	500	500	500	600	600	700	700	800	1000	1000
Taper Angle	D/ mm	0	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3
Max. Taper Angle	D/ mm	0	±6	±15	±30	±30	±45	±45	±45	±45	±45	±45	±45
Wire Running Speed	m/s	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
Table Loading	kgs	100	300	400	500	500	800	800	1200	1200	2000	2600	2600
Wire diameter	mm	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Worktable moving pulse	mm	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Machine weight	Kgs	800	1260	1320	1650	1760	2420	2650	3200	3500	4000	5600	6500
Overall size	Mm	1100 *920 *1350	1460 *1150 *1550	1550 *1150 *1750	1700 *1250 *1850	1700 *1350 *1850	1750 *1420 *2150	1850 *1620 *2150	2160 *1950 *2250	2160 *2120 *2360	2450 *2250 *2450	2820 *2450 *2660	3250 *2450 *2660
Wire Transport Moto		Heterophase Motor											
Working accuracy		According to GB7926-2005											
Power Supply		3 Phase 380V											
Working fluid		Emulsify Soap/ Emulsify Ointment/ Emulsify Oil + Purified Water											
Machining Aver. Current	A	8	8	8	8	8	8	8	8	8	8	8	8
Max.Cutting Speed	Mm/ min	180	180	180	180	180	180	180	180	180	180	180	180
Cutting Accuracy	mm	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Cutting Roughness	Ra	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Power Consumption	KW	0.8	1.8	1.8	2.2	2.2	2.8	2.8	3.2	3.2	3.8	4.2	4.5



ZNC system only *Taiwan Ctek Origin*, High efficient and Durability. Provide *DC/AC motor* options.

Specs	D7135	D7145	D7150	D7165	D7175
Worktable: mm	600*320	750*420	850*450	1050*600	1050*600
X-Y travel: mm	350*250	450*350	500*400	600*500	700*500
Z axis travel	200	200	200	250	250
Spindle travel	200	200	280	550	550
Eletrode head to worktable	200-450	200-500	200-580	200-850	200-850
Working tank inner size	880*580*360	1100*660*420	1250*790*510	1500*800*500	1500*800*500
Working oil tank size: L	250	400	460	980	980
Max. Electrode weight	50	100	150	250	250
Worktable loading: kgs	500	1000	1500	2500	2800
Machine size	1350*1150*2100	1470*1250*2150	1600*1470*2400	2050*1850*2450	2250*1960*2450
Packing size: CBM	6.5CBM	8CBM	9CBM	15CBM	17CBM
Machine weight	1450	1950	2450	3500	4000
Processing Current	30/50 A	30/50/75 A	30/50/75 A	30/50/75 A	30/50/75 A
Max. Erosion efficiency	350/550	350/550/700	350/550/700	350/550/700	350/550/700
Positioning accuracy	0.005	0.005	0.005	0.005	0.005
Repositioning accuracy	0.003	0.003	0.003	0.003	0.003
Max. Roughness	Ra: 0.3	Ra: 0.3	Ra: 0.3	Ra: 0.3	Ra: 0.3
Max. Electrode consumption	< 0.2%	< 0.2%	< 0.2%	< 0.2%	< 0.2%
Controller size	750*650*1750	750*650*1750	750*650*1750	750*650*1750	750*650*1750
Controller weight	200kgs	200kgs	200kgs	200kgs	200kgs



CNC EDM -- *Mirror Class Ra:0.1-0.15*

4th C axis available

Erowa 3R Chuck available

Full CNC, Super fine edge, Super clear angle

Specification	Unit	D450(430)	D540	D645	D850	D1060	D1260
Worktable size	mm	700*400	850*450	900*650	1100*650	1250*800	1250*800
X-Y Stroke	mm	450*350 (400*300)	500*400	600*450	850*500	1000*600	1200*600
Z axis stroke	mm	300	300	350	400	500	500
distance from electrode head to worktable	mm	320-620	400-700	420-770	500-900	500-1000	500-1000
working tank inner size	mm	1080 x 700 x 450	1450*800*500	1620*1100*550	1800*1100*570	2100*1250*600	2100*1250*620
Max. Electrode weight	kgs	100	120	150	200	400	400
worktable loading	kgs	1000	1800	2500	3000	3500	4500
Machine Weight	kgs	2500	3300	3500	4500	6500	6500
Processing current	A	30/50	30/50/75	30/50/75/100	30/50/75/100	30/50/75/100	30/50/75/100
Positioning accuracy	mm	0.005	0.005	0.005	0.005	0.005	0.005
Repositioning accuracy	mm	0.003	0.003	0.003	0.003	0.003	0.003
Max.working speed	mm3/min	360/550	360/550	550/750/1050	550/750/1050	550/750/1050	550/750/1050
Max. Roughness	um	Ra:0.15	Ra:0.15	Ra:0.15	Ra:0.15	Ra:0.15	Ra:0.15
Max. electrode consumption		<0.15%	<0.15%	<0.15%	<0.15%	<0.15%	<0.15%
Controller Overall Size	mm	750*650*1750	750*650*1750	750*650*1750	750*650*1750	750*650*1750	750*650*1750
Controller Weight	kgs	250	250	250	250	250	250



Manual Model , Available Taper drill $\pm 45^\circ$

Portable EDM Superhole Drill

ZNC Model ,Auto-return to original position function after finish drilling

Specifications	Unit	XF300	XF400	XF500	XF630	XF800	Portable Drill XFP
Worktable size	mm	280*420	320*480	585*860	705*1020	780*1080	Portable
X-Y Stroke	mm	200*300	300*400	400*500	500*630	630*800	**
Control Type		Common/ZNC	Common/ZNC	Common/ZNC	Common/ZNC	Common/ZNC	**
Principal Axis Travel		300+360	300+360	300+360	300+360	300+360	320+300
Water Tank Capacity	L	25	25	25	25	25	30
Table Loading	kgs	200	250	400	800	1200	
Electrode Diameter	mm	0.2-3.0(300: 1) 0.3-5.0	0.2-3.0(300: 1) 0.3-5.0	0.2-3.0(300: 1) 0.3-5.0	0.2-3.0(300: 1) 0.3-5.0	0.2-3.0(300: 1) 0.3-5.0	0.2-3.0(300: 1) 0.3-5.0
Machine weight	Kgs	550	600	1320	1650	2450	
Overall size	Mm	1150*900*1750	1250*980*1750	1680*1250*1950	1850*1320*2050	2060*1550*2050	520*260*390
Working accuracy		According to GB7926-2005					
Power Supply		Single Phase 220V, 3 Phase 380V					
Working fluid		Clean Water + Purified Water					
Machining Aver. Current	A	30/50	30/50	30/50	30/50	30/50	30
Max.Cutting Speed	Mm/min	50-70	50-70	50-70	50-70	50-70	40-60
Max.Processing Power	W	3.3	3.3	3.6	3.8	4.2	1.3
Water Pump pressure	Mpa	8-10	8-10	8-10	8-10	8-10	8
Central lubrication		Yes	Yes	Yes	Yes	Yes	



CNC Model, Available 3, 4, 5, 6 Axes

Specifications	Unit	XF3020	XF3040	XF4050	XF5063	XF6380
Worktable size	mm	320*560	380*680	570*820	685*1020	750*1150
X-Y Stroke	mm	200*300	300*400	400*500	500*650	630*800
Control Type		CNC	CNC	CNC	CNC	CNC
Principal Axis Travel		300+360mm	300+360mm	300+360mm	300+360mm	300+360mm
Water Tank Capacity	L	150	150	150	150	150
Table Loading	kgs	200	350	450	800	1200
Electrode Diameter	mm	0.2-3.0(300: 1)	0.2-3.0(300: 1)	0.2-3.0(300: 1)	0.2-3.0(300: 1)	0.2-3.0(300: 1)
Machine weight	Kgs	550	600	1350	2050	3000
Overall size	Mm	1200*1050*1950	1350*1150*1950	1450*1250*2050	1650*1400*2050	1860*1550*2200
Working accuracy		According to GB7926-2005				
Power Supply		3P 380V, 50/60Hz				
Working fluid		Clean water or Purified Water				
Machining Aver. Current	A	35	35	35	35	35
Max.Cutting Speed	Mm/min	50-70	50-70	50-70	50-70	50-70
Max.Processing Power	W	3.3	3.3	3.6	3.6	4.5
Water Pump pressure	Mpa	10	10	10	10	10