







Deals In industrial Machinery

ABOUT US

J.K. MACHINES is a highly promising young business enterprise specializing in Electric Discharge Machine (EDM), CNC Wire Cut Machine, Tool Room Machines, Laser Welding, Cutting, Marking Machines & Injection Moulding Machine. It was started in the year 2009 by (M.E.) J.K.SHARMA having vast knowledge of the functioning, application and marketing of these products.

Apart from it, J.K. MACHINES also offer various other types of machines, tools and equipment's including CNC Machines, Testing Measuring Equipment. Woodworking Machinery, Plastic Processing Machinery and machines for Engineering institute workshop.

Feature:

- Select the industrial PC system (IPC) compatibility construct, it collocation the industrial C.F card (Compact Flash card) and support the USB copy / read data function, it will be save the date easy and convenient, reliable
- Chinese & English display
- Metric & British system display & program setting.
- 1,000 stations processing programs
- Simplify the program editing; with one block command, you can finish the line multi-cavity machining and matrix multi-cavity
- 10 files, and there are 256 sets processing parameter memory in each file; it can store the processing conditions.
- Automatically Edge finding, Home finding, Center or Inner hole finding, and Apex finding
- The Conversation type program with Loop & Call, Note & Pause, Mark / Copy / Delete Block and Skip line function, It more easy to learn and write & edit the program.
- With Side Ioran function (X, Y axis), Angle Vector machining function, and ARC clockwise & ARC counter Clockwise function.
- Single or 3 axis lateral machining, Round orbiting, Square orbiting, Vector machining
- Optional accessories A.T.C., C Axis (Including the helical-gear machining, C-X / C-Y axis lateral rock machining, and other applied machining commands).

Mirror Processing (Big Dimension) Controller Advantage :

- JSEDM original creation S.F (super Finishing), Mirror processing circuit, with high purity nanometer fine power of mix system, it machining small size work piece (sparking area) with best surface Ra 0.1 μ m, and the biggest size work piece with best surface Ra 0.2 ~ 0.3 μ m.
- The S. F function with the automatic control mix fine powder and filter the Iron powder, it easy to control the machining process and raise the machine work efficiency.
- DSP (Digital Signal Processors) servo control system speeds the response time up to 0.2ms in a location circuit control versus. (Traditional PC based control is 1ms in a versus.) DSP provides the more stable sparking and smooth machine
- MOSFET transistors couple with responsive POWER SINK circuitry can reach the high processing with low wear and tear rate.
- Pulse circuit adopts the IC of FPGA, the latest generation of field programmable gate array, to ensure the fastest response and capability of "UNI-PULSE" monitor, thus ensure the better burning efficiency by avoiding" carbon built up. (Less ARC condition.)
- Operator friendly interferes with "Al" logic to assist in setup and operation. Once the basic material, depth, and shape data are entered, the CNC fuzzy logic controller can set and adjust the optimum burning parameters to quickly and efficiently achieve the targeted results. Industrial C.F card (Compact Flash Card).
- Which can be wrote and read over 100,000 times at least







CNC-EB600L(S.F)

CNC-FB54351

















ELECTRIC DISCHARGE MACHINE







CNC-EB1470L









CNC-EB2010L



CNC-EB2210L



CNC-EB2210L-2H



CNC-EB3010L



CNC-EB3010L-2H

CNC ELECTRIC DISCHARGE MACHINE



High Rigidity and Thick Base

- The base is made by (Mechanile) cost iron and eliminated stress by heat treatment. The structure of base also is designed evenly with high rigidity and symmetry. The work table is processed with heat treatment and precision grinding, so the mork labile is wear-resistant and can maintain its certain fathers when it is weighted.
- •• The base is moving column (RMA) type) structure and also can carry 4000kg work piece while ensuring flat movement of machine without any effect, in order to improve the processing accuracy. The design of this close ensure when the machine face long time heavy term operation, it will not have the occurrence of the deformation dujestion.



- X Y axis use linear guide way on a low coefficient of findion, in order to ensure the mechanical precision and smart operation under the machine movement. Using wide finear guide and spain, make sure that the mechanical moving around a long time to do (especially mechine doing rearning and vector processing), the positioning of the machine and the actual processing of feed data is more accurate to constantly machine the machine accuracy. (Backlash value)
 - X axis linear guide way (e45mm) is installed on the middle seat of machine, to ensure installation are flat and useful life are long for the linear guide way. And also is collocated with precision ball screw (040mm) to ensure accuracy location while the machine moving in long period.



Y axis linear guide way(a45mm) is installed on the upper seat of machine, to ensure lightweight guide way for reducing the coefficient of friction of guide way and estending the life period. Besides, the machine is collocated with precision ball screw (a32mm) to ensure the machine in accuracy. Lightweight moving column •

. (forward and backward displacement) Lightweight moving column designed, installed on

Lightweight moving cournn designed, instaled on top of the machine which can increase the machine processing travel and height. And to ensure that the machine to do forward and backward movement without titting (forward and backward) problem, and don't affect the stability problem while the column

CNC-EB1000R



Precision of Spindle •-

- Spindle is integrated design casting, in order to ensure it is smooth movement with bigger electrode. And use alloy steel guide way, collocate roller bearing with low coefficient of friction to increase accuracy feed and dexterity while moving.
- Don't use pull counterweight on spindle, but with 350W servo motor and the structure is designed 6 pcs of sliding block on spindle two sides. In order with keep correct position without vibration and improving the life of ball screw while the spindle



Hydraulic pressure (oil type) function upper / down work door

With automatic control equipment, allowing user to open and close door more simply, more easily, and it will be more



Select the steel cover protect the X axis

- The X axis used the steel cover as same the machine center that protect efficiency are better more then the traditional type (cloth and plastics material) the steel are more durable, fireproof, and not easy broken.
- CNC EB1000R will be change the sparking process and increase efficiency Function :

Item Function	Z axis with rotation function	Z axis is traditional vertical type					
Work efficiency	The Z axis action by vertical function, that it can reduce the machining time and protect the work piece machining accuracy and quality.	Used edge side machining only, it will be short the machine use lift, and delay machining process, the electrode will be easy were also, besides, it with shake and position lost situation during process, of course, the work piece accuracy and quality not well.					
Prepare the Electrode and wear situation	Electrode easy to made and wear rate lower	Electrode made need to consider the angle first, and with the angle electrode will be easy to wear during sparking process.					
Safety & convenient	Work piece easy to set on the work table level type.	Setting the clamping tool and setting the work piece in the clamping tool, because the work piece had angle that it more danger during process.					
Preparations	(a) Made the work peece angle datum plane process. (b) Made the electrode edge datum plane process. (c) Adjust the z axis rotation angle. (d) Adjust the work piece and electrode plane and start sparking process.	(a) Made the damping tool for damp work piece. (b) Need to use the OKC machine center and CNC Wire Cut EDM to made the clamping tools. (c) Made the work piece angle datum plane process. (c) Made the electrode edge datum plane process. (d) Made the electrode edge datum plane process. (f) Addition the electrode edge datum plane process. (f) Addition the electrode edge datum plane process. (g) Edge two ordermoe adde and clast topiking process.					





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1 Hour To Master The Control System



- DSP (Digital Signal Processors) servo control system speeds the response time up to 0.2ms in a location circuit control versus.

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- MOSFET transistors couple with responsive POWER SINK circuitry can reach the high processing with low wear and tear rate.
- Pulse circuit adopts the IC of FPGA, the latest generation of field programmable gate array, to ensure the fastest response and capability of "UNI-PULSE" monitor, thus ensure the better burning efficiency by "avoiding" carbon built up. (Less are condition.)
- Operator friendly interferes with "A!" logic to assist in setup and operation. Once the basic material, depth, and shape data are entered, the CNC fuzzy logic controller can set and adjust the optimum burning parameters to quickly and efficiently achieve the targeted results.
- With center of circle function, you can select three point key in the edge finding and automatic find the circle of center.
- The Z axis with diversification up (Deslagging) function, easy for machining depth, corner bigger area, thin slice, and tapper type machining process
- Special customize command, according controller that we can feasibility analysis customer request special machining process function and addition the customize function or command.

Superior Controller



EEATLIDE

- Industrial IPC system, ensure the best stability in any machining condition.
- 15" LCD screen, simplify the operation.
- Dialogued computer editing, easy to learn and use; understand.
- During machining, electrode moving path, time, and machining conditions are all clear displayed in the LCD screen.
- The computer controlled power system, higher efficiency, lower electrode wear rate, fine and delicate surface.

SAFETY

- Fluid height level protection will shut off the electricity automatically when fluid level is lower than preset hight level.
- If improper use casues fire, then the machine shuts off automatically.
- When the work head reaches the preset depth, the work head will retract to its original position and shut off the electricity.
- When short circuit occurs, the machine shuts off automatically.

Model is mounted inside the spindle and therefore allows for greater Z axis clearance.





CNC ELECTRIC DISCHARGE MACHINE

C-axis

ATC system

MACHINE STRUCTURE

- Sturdy and compact headstock for easy operation with high precision.
- Main shaft adopts of alloy steel guide rail to coordinate with ball bearing, low rate of friction to secure the precision of feeding.
- Auto depth position stop setting,it stops automatically when reaching the processing depth.
- X.Y saddles are stuck with linear way & ball screws, ensure the precision & delicate operation.
- Machine frame is constructed with tempered FC-30 casting under head treatment to keep accurate precision.
- With C axis accessory, the electrode can turn a arbitrary angle to make processing.
- With optional ATC accessory, the machining would be finished in no-attended condition.

FRIENDLY SYSTEM ASSURES OPERATION EASE



 "Al" function, with built-in the capacity of "ARTIFICIAL INTELLIGENCE," automatically adjusts for optimum performance.



 LED display quickly helps for checking the input or output conditions of the machine.



 Alarm message, all alarms are recorded in processing log.



 Operator can do the vector processing according to the instruction, and also can set a starting angle to process with different step angles.



 256 processing conditions allow the operator to amend the condition when processing.



Simultaneous 3 axes straight line processing.



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CNC ELECTRIC DISCHARGE MACHINE

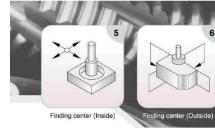


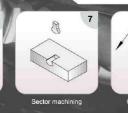


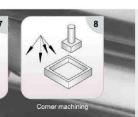




















Orbiting machining

































CNC ELECTRIC DISCHARGE MACHINE

SPECIFICATIONS	CN	IC-EB433	CN	C-EB600L	CNC	NC-EB600L(S.F) CNC-EB5435L		IC-EB5435L	CNC-EB700L		CNC-EB860L		CNC-EB1060L		CNC-EB1000R		CN	C-EB1270L	
Capacity of work tank	900x	520x385mm	1100x600x400mm		1100:	1100x600x400mm 125		1250x800x520mm		1500x940x520mm		1800x1100x620mm		1900x1100x620mm		1960x1100x550mm		2100x1250x620mm	
Work table size	600	0x350mm	700x400mm		70	700x400mm 8		0x450mm	1000x600mm		1200x700mm		1250x750mm		1100x700mm		1350x820mm		
Longitudinal travel(X-axis)	4	400mm	400mm		400mm		500mm		600mm		800mm		1000mm		1000mm		1200mm		
Cross travel(Y-axis)	;	300mm	300mm		300mm		400mm		450mm		600mm		600mm		600mm		700mm		
Z axis travel(Z-axis)	;	300mm	300mm		300mm		350mm		400mm		500mm		500mm		500mm		500mm		
Distance between platen to table	310	0~610mm	270~570mm		270~570mm		420~770mm		350~750mm		450~950mm		450~950mm		500~1000mm		510~1010mm		
Max. Electrode weight		100kgs	100kgs		100kgs		200kgs		250kgs		350kgs		350kgs		100kgs/3kgs (Stope machining process)		400kgs		
Max. Work piece weight	,	500kgs	1000kgs		1000kgs		2000kgs		3000kgs		4000kgs		4500kgs		4000kgs		5000kgs		
Fluid tank capacity		300L	370L		370L		850L		1100L		1400L		1600L		1560L		1900L		
Machine outside dimensions(WxDxH)	1700x1	600x2350mm	1900x1750x2350mm		2700x1750x2350mm		2700x2250x2400mm		2850x2700x2610mm		3400x3250x3200mm		3600x3250x3200mm		3600x3200x3200mm		4000x3400x3250mm		
Machine weight	1	1750kgs		2250kgs		2400kgs		2700kgs		3600kgs		4700kgs		5200kgs		5000kgs		6500kgs	
Max. Machining current	60A	90A(Optional)	60A	90A(Optional)	60A	90A(Optional)	60A	90A(Optional)	60A	90A(Optional)	90A	120A(Optional)	90A	120A(Optional)	90A	120A(Optional)	90A	120A(Optional)	
Max. Power input	7KVA	10KVA	7KVA	10KVA	7KVA	10KVA	7KVA	10KVA	7KVA	10KVA	10KVA	13KVA	10KVA	13KVA	10KVA	13KVA	10KVA	13KVA	
Max. Machining rate(mm³/min)	400	600	400	600	400	600	400	600	400	600	600	800	600	800	600	800	600	800	
Min. Electrode wear ratio	0.12%		0.12% 0.12%		0.12%	0.12%		0.12%		0.12%		0.12%		0.12%		0.12%			
Best surface / Ra	Ra 0.2 µ m Ra 0.2 µ m		Ra 0.1 µ m		Ra 0.2 µ m		Ra 0.2 μ m		Ra 0.2 µ m		Ra 0.2 μ m		Ra 0.2 µ m		Ra 0.2 µ m				
Min. D. R. O. resolution(mm)	0	0.001mm 0.001mm		0.001mm		0.001mm		0.001mm		0.001mm		0.001mm		0.001mm		0.001mm			
Generator weight							320 kgs		320 kgs		350 kgs		350 kgs		350 kgs		350 kgs		

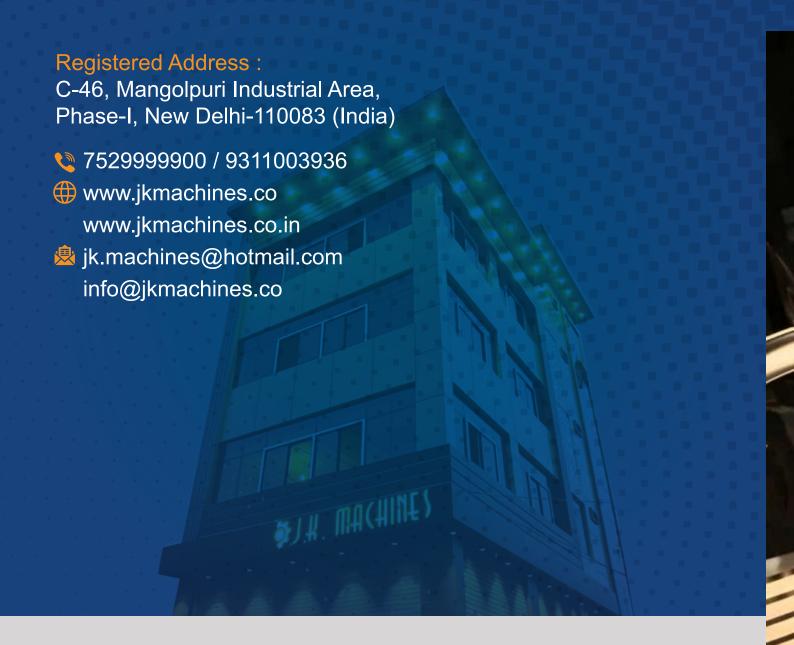
SPECIFICATIONS	CNO	C-EB1470L	CN	C-EB1510L	CN	C-EB1675L	CN	IC-EB1880L	CN	C-EB2010L	CNC-EB2210L	CNC-EB2210L-2H	CNC-EB3010L	CNC-EB3010L-2H	
Capacity of work tank	2250x	1350x620mm	2300x1700x800mm		2400x1320x700mm		2600x1320x700mm		2700x1700x800mm		2850x1700x800mm	2900x1700x800mm	3900x1700x800mm	3900x1700x800mm	
Work table size	185	0x1000mm	1580x1100mm		1850x1000mm		1850x1000mm		2250x1100mm		2250x1100mm	2250x1100mm	3100x1100mm	3100x1100mm	
Longitudinal travel(X-axis)	1	1400mm	1500mm		1600mm		1800mm		2000mm		2200mm	1550(SM) 775(DM)mm	3000mm	2550(SM) 1275(DM)mm	
Cross travel(Y-axis)	li li	700mm	1000mm		750mm		800mm			1000mm	1000mm	1000mm	1000mm	1000mm	
Z axis travel(Z-axis)		500mm	600mm		550mm		600mm			600mm	600mm	600mm	600mm	600mm	
Distance between platen to table	550	0~1050mm	650~1250mm		500~1050mm		450~1050mm		660~1260mm		660~1260mm	660~1260mm 720~1320mm		720~1320mm	
Max. Electrode weight		450kgs	500kgs		450kgs		500kgs		500kgs		500kgs	500kgs	500kgs	500kgs	
Max. Work piece weight	6	6000kgs	11000kgs		6500kgs		7000kgs		9500kgs		9500kgs 10000kgs		16000kgs	16000kgs	
Fluid tank capacity		2100L	3500L		2600L		2800L		3800L		4100L	4700L	5800L	6000L	
Machine outside dimensions(WxDxH)	4300x3	3400x3250mm	4600x4800x3620mm		4800x3800x3200mm		5000x4000x3200mm		5200x4500x3570mm		5500x4600x3570mm	6500x4600x3570mm	6000x4600x3620mm	7000x4600x3620mm	
Machine weight	8	8000kgs		14500kgs		8500kgs		9000kgs		12500kgs	13500kgs	15000kgs	19000kgs	21000kgs	
Max. Machining current	90A	120A(Optional)	90A	120A(Optional)	90A	120A(Optional)	90A	120A(Optional)	90A	120A(Optional)	120A	120A	120A	120A	
Max. Power input	10KVA	13KVA	10KVA	13KVA	10KVA	13KVA	10KVA	13KVA	10KVA	13KVA	13KVA	13KVA	13KVA	13KVA	
Max. Machining rate(mm³/min)	600	800	600	800	600	800	600	800	600	800	800	800	800	800	
Min. Electrode wear ratio		0.12%	0.12%		0.12%		0.12%		0.12%		0.12%	0.12%	0.12%	0.12%	
Best surface / Ra	R	a 0.2 μ m	Ra 0.2 µ m		Ra 0.2 μ m	Ra 0.2 μ m	Ra 0.2 μ m	Ra 0.2 μ m							
Min. D. R. O. resolution(mm)	0).001mm	0.001mm		0.001mm		0.001mm		0.001mm		0.001mm	0.001mm	0.001mm	0.001mm	
Generator weight	;	350 kgs	350 kgs		350 kgs		350 kgs		350 kgs		380 kgs	380 kgs	380 kgs	380 kgs	

Note: All specifications and design are subject to change without notice.

The date above is test result base on certain working condition. The actual result will be varied depends on the input voltage, shape and size of electrode, spark condition, material of work piece and working fluid.









Deals In industrial Machinery













WHATS





YOUTUE

