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## 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 Mr. J.K.SHARMA (M.E.) 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 mult-cavity machining and matrix mutt-cavity machining.
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 Ling, Center \& Call, onote \& Pause, Mark / Copy / Delete Block and Skip line function, It more easy to learn and write \& edit the program.
With Side loran function ( $X$, $Y$ axis)
With Side loran 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., 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 m , and the biggest size work piece with best surface Ra $0.2 \sim 0.3 \mathrm{um}$.
- The S. F function with the automatic control mix fine powder and fitter the lron powder, it easy to control the machining process and raise the machine work efficiency.
DSP (Digital Signal Processors) sevvo control system speeds the response time DSP (Digital Signal Processors) servo control system speeds the response time up to 0.2 ms in a location circuit control versus. (Traditional PC based control is
1 ms in a versus.) DSP provides the more stable sparking and smooth machine movement.
MOSFET transistors couple with responsive POWER SINK circuitry can reach
the high processing with low wear and tear rate.
est 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.)
Opertor frienly itefes wit "Al" boic to 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-EB433


CNC-EB700L


CNC-EB600L


CNC-EB860L


CNC-EB5435L


CNC-EB1060L

HSEDM

## ELECTRIC

DISCHARGE MACHINE


CNC-EB1270L


CNC-EB1880L


CNC-EB2210L-2H


CNC-EB1470L


CNC-EB2010L

CNC-EB2210L


CNC-EB3010L-2H


CNC-EB1675L




1 Hour To Master The Control System

CNC EDM EB SERIES CONTROLLER ADVANTAGE

- DSP (Digital Signal Processors) servo control system speeds the response time up to 0.2 ms in a location circuit control versus, (Traditional PC based control is 1 ms in a versus.) DSP provides the more stable sparking and smooth machine movement.
- 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
capabiity 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 buning 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
- 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



FEATURE

- Industrial IPC system, ensure the best stability in any machining condition. $15^{\prime \prime}$ 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.


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 capac
of "ARTIFICIAL INTELLIGENCE."
automatically adjusts for optimum
performance.



Alarm message, all alarms are
recorded in processing log.


- Operator can do the vector processing
according to the instruction, and also 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.




## =SEDM

| SPECIFICATIONS |  | NC-EB433 | CNC-EB600L |  | CNC-EB600L(S.F) |  | CNC-EB5435L |  | CNC-EB700L |  | CNC-EB860L |  | CNC-EB1060L |  | CNC-EB1000R |  | CNC-EB1270L |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capacity of work tank | $900 \times 5$ | $520 \times 385 \mathrm{~mm}$ | 1100x | x600x400mm | 1100x | $\times 600 \times 400 \mathrm{~mm}$ | 1250 | $0 \times 800 \times 520 \mathrm{~mm}$ | 1500x | x940x520mm | 1800x | $\times 1100 \times 620 \mathrm{~mm}$ | 1900x | $\times 1100 \times 620 \mathrm{~mm}$ | 1960x | $\times 1100 \times 550 \mathrm{~mm}$ | 2100x | $\times 1250 \times 620 \mathrm{~mm}$ |
| Work table size |  | $0 \times 350 \mathrm{~mm}$ |  | $0 \times 400 \mathrm{~mm}$ |  | $0 \times 400 \mathrm{~mm}$ |  | $350 \times 450 \mathrm{~mm}$ |  | 00x600mm |  | 200x700mm |  | 250x750mm |  | 00x700mm |  | 50x820mm |
| Longitudinal travel( X -axis) |  | 400 mm |  | 400 mm |  | 400 mm |  | 500 mm |  | 600 mm |  | 800 mm |  | 1000 mm |  | 1000 mm |  | 1200 mm |
| Cross travel(Y-axis) |  | 300 mm |  | 300 mm |  | 300 mm |  | 400 mm |  | 450 mm |  | 600 mm |  | 600 mm |  | 600 mm |  | 700 mm |
| Z axis travel(Z-axis) |  | 300 mm |  | 300 mm |  | 300 mm |  | 350 mm |  | 400 mm |  | 500 mm |  | 500 mm |  | 500 mm |  | 500 mm |
| Distance between platen to table |  | 0~610mm |  | 0~570mm |  | 0~570mm |  | $20 \sim 770 \mathrm{~mm}$ |  | 50~750mm |  | 0~950mm |  | 50~950mm |  | $0 \sim 1000 \mathrm{~mm}$ |  | 0~1010mm |
| Max. Electrode weight |  | 100kgs |  | 100kgs |  | 100kgs |  | 200kgs |  | 250 kgs |  | 350kgs |  | 350 kgs | 100 kgs 3 k | kgs (suremadiningucass) |  | 400 kgs |
| Max. Work piece weight |  | 500kgs |  | 1000kgs |  | 1000kgs |  | 2000kgs |  | 3000kgs |  | 4000kgs |  | 4500kgs |  | 4000kgs |  | 5000kgs |
| Fluid tank capacity |  | 300L |  | 370L |  | 370 L |  | 850 L |  | 1100L |  | 1400L |  | 1600L |  | 1560L |  | 1900L |
| Mactine outside dimensions(WxXXXH) | 1700x1 | 1600x2350mm | 1900x1 | 1750x2350mm | 2700x1 | 1750x2350mm | 2700x | x2250x2400mm | 2850x2 | $2700 \times 2610 \mathrm{~mm}$ | 3400x 3 | 3250x3200mm | 3600x | x3250x3200mm | 3600x | $3200 \times 3200 \mathrm{~mm}$ | 4000x | 3400x3250mm |
| Machine weight |  | 1750kgs |  | 2250 kgs |  | 2400 kgs |  | 2700 kgs |  | 3600 kgs |  | 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 | 13 KVA |
| 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\% |
| Best surface / Ra |  | a $0.2 \mu \mathrm{~m}$ |  | a $0.2 \mu \mathrm{~m}$ |  | a $0.1 \mu \mathrm{~m}$ |  | Ra $0.2 \mu \mathrm{~m}$ |  | Ra $0.2 \mu \mathrm{~m}$ |  | Ra $0.2 \mu \mathrm{~m}$ |  | Ra $0.2 \mu \mathrm{~m}$ |  | Ra $0.2 \mu \mathrm{~m}$ |  | Ra $0.2 \mu \mathrm{~m}$ |
| Min. D. R. O. resolution(mm) |  | . 001 mm |  | . 001 mm |  | 0.001mm |  | 0.001 mm |  | 0.001 mm |  | 0.001 mm |  | 0.001 mm |  | 0.001 mm |  | 0.001 mm |
| Generator weight |  |  |  |  |  |  |  | 320 kgs |  | 320 kgs |  | 350 kgs |  | 350 kgs |  | 350 kgs |  | 350 kgs |



[^0]shape and size of electrode, spark condition, material of work piece and working fluid.

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 INSTAGRAM
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[^0]:    ote : All specifications and design are subject to change without notice.
    The actual result will be varied depends on the input voltage

