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Product Catalogue
Serving Since 2009



**PERSISTENCE TO
QUALITY ENSURES VALUE**



ABOUT US

J K MACHINES is a leading tech Enterprise Specializing in development and sales of Tool Room Machines such as CNC EDM, ZNC EDM, CNC WIRECUT EDM, DRILL EDM, LASER WELDING CNC ENGRAVING MACHINE and More.

Since Its Establishment the company has continuously innovated and optimizes its technology and services. J. K. MACHINES adhere to "Quality first, customer first, Service first". We always strive to be ahead of the market by seeing the world through our customer eyes. We balance and master the two words of Contradictions i.e., the world of innovation and world of excellence, and this is what driving us to continue to be pioneer in any emerging technology in metal cutting industry. It's about blending excellence and innovation in every part of business. Hence, we are committed to be pioneer in future as well as to bring out the latest in the industry to the customer.

Constant and consistent collaboration with the customer and ever-growing hunger of excellence ensure that J K MACHINES syncs well with the Market dynamics. Being a consultant and solution provider for the complex needs of the customer is the hall mark of J K MACHINES. We nurture value driven relationship with our customers. Others can copy the design or technology from us but not the culture of our Company. Our value system is so strong which enable us to reinvent ourselves constantly to meet the market dynamics with Vigor and Valor.



In last few years the demand of High precision CNC EDM Machines has been consistently growing and we came up with High precision CNC EDM Machines.

The highest product quality, faster delivery, best service and lowest price are the expectations of customers universally. In the prevailing highly volatile and uncertain market and economic scenario, the customers preferences, and priorities changes rapidly. We must be fully prepared to meet the challenges head-on. Our close collaboration and report with the customers make it simple for us to foresee it and get prepared to face it.

In our country, cost play a big role in decision making. But in our experience if you justify your cost with values you offer customers are ready to pay the premium. Also, we have been successful in acquiring decent market share because the running cost of products are lower over its life cycle.

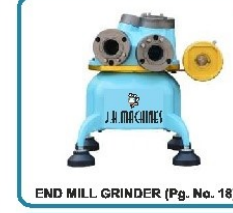
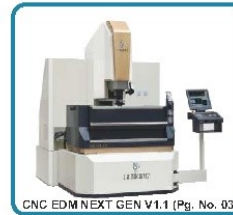
Most of the competitions are trying to be innovative in the product and technology – but their services are not good. Most of the imported machine come with barely low or No after sale support. Here, we have a big edge over the competition with well-trained service network and adequate stock of spares and consumables available 24 hours.

We have supplied more than 2000 Machines which are working satisfactorily all over India including Various IIT's, NIT's, Engineering colleges, CIPET, MSME, IGTR, TRTC, DEFENCE'S organizations such as ISRO, BARC DRDO etc.

We are registered with Gem, Central/State e-procurement portals Since our establishment in year 2009 we have participated in almost every Exhibition.



OUR PRODUCTS RANGE



www.jkmachines.co

CNC EDM (NEXT GEN V1.1)

Salient Features

- Three Axis Windows based Controller
- 15" LCD Touch screen (TFT-LCD)
- PIKA ultra precision mirror discharge circuit
- Automatically generates discharge programs
- Network Transmission ports-USB/Ethernet/RS232
- 60 Program storage
- Absolute, incremental Dual command
- Multi functional hand control box
- Discharge time indicator
- Smoke sensor & fire extinguisher
- Lateral auto discharge

Optional Accessories

- Five Axis Windows based Controller
- Auto Tool Changer
- Oil Cooler
- Servo Stabilizer
- EDM Oil
- Work holding attachments



HIGH PRECISION MIRROR CNC EDM (AUTOMATIC LIFTING OIL TANK)

Salient Features

- Three Axis Windows based Controller
- 15" LCD Touch screen (TFT-LCD)
- Ultra precision mirror discharge circuit
- Automatically generates discharge programs
- Network Transmission ports-USB/Ethernet/RS232
- 60 Program storage
- Absolute, incremental Dual command
- Multi functional hand control box
- Discharge time indicator
- Smoke sensor & fire extinguisher
- Lateral auto discharge

Optional Accessories

- Five Axis Windows based Controller
- Auto Tool Changer
- Oil Cooler
- Servo Stabilizer
- EDM Oil
- Work holding attachments



Items	Unit	A30	A40	A45
Worktable size (L x W)	mm	600x400	700x450	700x450
Liquid groove internal size (LxWxH)	mm	1020x600x400	1050x650x400	1050x650x400
Liquid level adjustment range	mm	48-198	110-292	110-300
Max. capacity of the liquid groove	L	152	200	235
X, Y, Z axis travel	mm	300x210x270	400x300x300	450x350x300
Maximum electrode weight	kg	50	50	50
Maximum workpiece size	mm	900x580x270	900x600x280	900x600x300
Maximum workpiece weight	kg	500	600	700
The maximum and minimum distance surface to electrode plate	mm	295-565	330-660	330-660
Positioning accuracy (JIS standard)	μm/mm	5 μm/(Arbitrarily)300mm		
Repeat accuracy (JIS standard)	μm	2μm		
Overall size (LxWxH)	mm	2000x2100x2200	2100x2100x2300	2100x2200x2300
Machine weight	kg	2200	3500	3800
Reservoir tank volume	L	400	400	400
Processing liquid filter type		Switching Cartridge Filter		
NC pulsed power supply unit		A40	A40	A40
Maximum current	A	40	40	40
Total input power	KVA	9	9	9
Input Supply	V	3 Phase, AC415V/50Hz		
Best surface roughness	Ra	0.1μm		
Min. electrode wear		0.1%		
Max. productivity	mm ³ /min	(Copper hit steel) 500mm ³ /min / (Graphite hit steel) 1030mm ³ /min		
Standard process		Copper/steel, fine copper/steel, graphite/steel, copper tungsten/steel, fine copper tungsten/steel, steel/steel, copper tungsten/carbide, copper/aluminium, graphite/heat resistant alloys		
Interpolation type		Linear, circular, spiral		
Each axis compensation		Each axis respectively step error compensation, clearance compensation		
Maximum number of controlled axes		Three axes linkage (standard), four simultaneous axes (optional)		
Resolution of each axis	μm	0.4		
Minimum drive unit	μm	1		

C Axis



Auto Tool Changer



Oil Chiller



Items	Unit	JK-45RF	JK-60RF
Worktable Size (L x W)	mm	600x450	800x550
Working Tank Internal Size (LxWxH)	mm	800x550x350	1050x700x400
Liquid level adjustment range	mm	48-198	110-300
Max. capacity of the liquid groove	L	152	235
X, Y, Z axis travel	mm	450x300x300	600x400x350
Maximum electrode weight	kg	50	50
Maximum workpiece size	mm	900x580x270	900x600x300
Maximum workpiece weight	kg	800	1500
The maximum and minimum distance surface to electrode plate	mm	250-550	250-600
Positioning accuracy (JIS standard)	μm/mm	5 μm/(Arbitrarily)300mm	
Repeat accuracy (JIS standard)	μm	2μm	
Overall size (LxWxH)	mm	2100x2100x2300	2100x2200x2300
Machine weight	kg	4500	6000
Oil tank capacity	L	400	400
Maximum current	A	50	50
Total input power	KVA	9	9
Input Supply	V	3 Phase, AC415V/50Hz	
Best surface roughness	Ra	0.1μm	
Min. electrode wear		0.1%	
Max. productivity	mm ³ /min	(Copper hit steel) 500mm ³ /min / (Graphite hit steel) 1030mm ³ /min	
Standard process		Copper/steel, fine copper/steel, graphite/steel, copper tungsten/steel, fine copper tungsten/steel, steel/steel, copper tungsten/carbide, copper/aluminium, graphite/heat resistant alloys	
Interpolation type		Linear, circular, spiral	
Each axis compensation		Each axis respectively step error compensation, clearance compensation	
Maximum number of controlled axes		Three axes linkage (standard), four simultaneous axes (optional)	
Resolution of each axis	μm	0.4	
Minimum drive unit	μm	1	

C Axis



Auto Tool Changer



Oil Chiller



CNC EDM FIXED TABLE MOVING HEAD

Salient Features

- Panasonic AC servo for X, Y & Z axis. Improves efficiency
- 15 inch LCD screen
- Mirror processing special circuit
- Automatic protection circuit for carbon deposition prevention
- Multi functional hand control box
- Compact elegant looks
- Axis resolution – 1 micron
- Smoke sensor and fire extinguisher
- High lifting height for ultra deep holes



SINGLE HEAD



DOUBLE HEAD

Specification	Unit	CNC-540	CNC-850	CNC-1260	CNC-1470	CNC-1680	CNC-1880	CNC-2110
Work Tank (WxDxH)	mm	1370 x 720 x 450	1800 x 1100 x 600	2000 x 1300 x 700	2550 x 1300 x 700	2550 x 1500 x 850	3000 x 1500 x 850	3800 x 1800 x 850
Working Table	mm	850 x 500	1050 x 600	1250 x 800	1500 x 900	1700 x 1000	2000 x 1000	2500 x 1200
Longitudinal Travel (X axis)	mm	500	800	1200	Single : 1400 Double : 850	Single : 1600 Double : 1100	Single : 1800 Double : 1200	Single : 2300 Double : 1450
Transverse Travel (Y axis)	mm	400	500	600	700	800	800	900
Quill Travel (Z axis)	mm	300	400	450	500	500	600	600
Quill to Working Table	mm	690	900	1000	1100	1150	1200	1250
Max. Electrode Weight	kg	150	200	300	400	400	400	450
Max. Workpiece Weight	kg	1800	3000	3500	5000	6000	6500	8000
Drive System for X,Y,Z Axis		AC Servo	AC Servo	AC Servo	AC Servo	AC Servo	AC Servo	AC Servo
Machine Weight	kg	2500	4500	5500	Single : 9000 Double : 11000	Single : 9000 Double : 12000	Single : 13000 Double : 15000	Single : 15000 Double : 17000

Pulse Generator

Max. Working Current	amp	30 (60AMP & 90 AMP OPTIONAL)						
Max. MRR	mm ³ /min	300						
Min. Electrode Wear	%	0.1						
Best Surface Finish (Ra)	μ	0.15						
Power Supply	volt	3 Phase, AC415V/50Hz						
Connected Load	kVA	10						

Dielectric tank

Oil Tank Capacity	Ltr	800	1500	1800
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Standard Accessories

- Axis Corrector
- Flat Electrode Holder
- Round Electrode Chuck
- Flushing Aids
- Clamping Kit
- Mounting/Leveling Pads
- Tool Kit

Optional Accessories

- Servo stabilizer
- Edm oil
- 60 AMP & 90 AMP Controller
- Magnetic Chuck
- Work Holding Attachment

CNC EDM (INTERGATED TYPE)

Salient Features

- Panasonic AC servo for Motor X, Y & Z
- 15 inch LCD screen
- Automatic protection circuit for carbide
- Multi functional hand control box
- Compact elegant looks
- Axis resolution – 1 micron
- Smoke sensor and fire extinguisher
- High lifting height for ultra deep hole
- Mirror Processing Special Circuit

Standard Accessories

- Axis Corrector
- Flat Electrode Holder
- Round Electrode Chuck
- Flushing Aids
- Clamping Kit
- Mounting/Leveling Pads
- Tool Kit

Optional Accessories

- Servo stabilizer
- Edm oil
- Magnetic chuck
- Work Holding Attachment
- Erowa



Specification	Unit	CNC-30J	CNC-45J	CNC-50J	CNC-70J
Work Tank (WxDxH)	mm	870 x 570 x 320	1050 x 610 x 450	1150 x 690 x 480	1940 x 1050 x 600
Working Table	mm	500 x 300	700 x 450	800 x 500	1200 x 700
Longitudinal Travel (X axis)	mm	300	450	500	700
Transverse Travel (Y axis)	mm	200	350	400	600
Quill Travel (Z axis)	mm	200	250 + 250	250 + 250	300 + 300
Quill to Working Table	mm	520	700	760	1000
Max. Electrode Weight	kg	50	75	75	100
Max. Workpiece Weight	kg	400	600	800	1800
Drive System for X,Y,Z Axis		AC Servo	AC Servo	AC Servo	AC Servo
Machine Weight	kg	1350	1600	2200	3500
Machine Dimension	mtr	1.50 x 1.40 x 2.30	1.80 x 1.40 x 2.40	1.90 x 1.15 x 2.50	2.10 x 2.00 x 2.80

Pulse Generator

Max. Working Current	amp	30 (60AMP & 90 AMP OPTIONAL)			
Max. MRR	mm ³ /min	300			
Min. Electrode Wear	%	0.1			
Best Surface Finish (Ra)	μ	0.30 (0.10 with mirror finish circuit)			
Power Supply	volt	3 Phase, AC415V/50Hz			
Connected Load	kVA	10			

Dielectric tank

Oil Tank Capacity	Ltr	400	500	550	600
Oil Pump Motor Power	HP	0.50	0.75	0.75	0.75

ZNC EDM (DC SERVO)

Salient Features

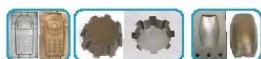
- Seven Segment Display
- Programmable Z axis
- 10 Step, 10 Programs storage
- Built in 3 axis DRO
- Integral design and compact footprint
- Precision co-ordinate table on flat & V type turcide coated guide ways driven by ball screw
- Double door large work tank for ease of loading & unloading of work piece
- Oil level alarm, Oil temperature alarm
- Highly accurate work head with the quill running on pre-loaded cross roller bearing
- High speed quill movement with DC servo motor
- Motorized back slide travel (ZNC-35 onwards)
- Hand held full function remote control (80A,100A & 40AL)
- X,Y,Z lock function
- Mm & inch function
- Reverse servo machining
- Safe & stable no arc machining
- Like to like material machining
- Calibrated EDM technology
- Fire extinguisher, Smoke detector alarm
- Sleep mode, Auto mode
- Power efficient high pressure dielectric pump
- Oil filtration with 20 micron paper filter

Standard Accessories

- Axis corrector with fine adjustment
- Flat electrode holder
- Round electrode holding chuck
- Machine lamp
- Flushing aids
- Clamping kit
- Leveling pad
- Tool kit



Job Sample



Optional Accessories

- Servo stabilizer
- Edm oil
- Orbital attachment
- Translatory head
- Magnetic chuck
- LCD color display

Technical Specification	Unit	ZNC-30	ZNC-35	ZNC-45	ZNC-50	ZNC-70
Working tank (W x D x H)	mm	850x550x320	980x560x380	1250x730x450	1460x880x530	2000x1100x600
Working table	mm	300x500	350x630	450x700	500x800	700x1200
Longitudinal travel (X)	mm	300	350	450	500	700
Transverse travel (Y)	mm	200	250	350	400	600
Quill travel (Z)	mm	200	200	250	250	300
Back slide travel	mm	-----	200	250	250	300
Quill to working table	mm	580	700	730	800	1000
Max. electrode weight	kg	50	50	75	100	150
Max. workpiece weight	kg	300	500	700	1000	2000
Oil tank capacity	Ltr.	300	350	400	500	600
Servo system for Z axis				DC Servo		
Machine weight	kg	1200	1300	1600	1900	3500
Machine dimension (LxWxH)	mm	1320x1150x2060	1350x1210x2100	1485x1420x2150	1600x1600x2200	2100x2000x2600
Pulse Generator						
		40A / 40AL		50A / 50AL		100A / 100AL
Max. working current	amp	40		50		100
Max. MRR	mm ³ /min	200		500		600
Min. electrode wear	%	<0.2			<0.2	
Best surface finish	Ra	0.5			0.5	
Input power supply	V	3 Phase, AC 415V, 50 Hz				
Connected load	kVA	4		8		10
Controller weight	kg	110		200		250
Controller dimension (LxWxH)	mm	Fitted with machine				
				800x540x1700		800x540x2000

40A/80A/100A - 7 Segment Display | 40AL/80AL/100AL - LCD Display (Optional)

ZNC EDM (AC SERVO)

Salient Features

- 15" LCD color display
- Programmable Z axis
- 50 step, 100 program storage
- Built in 3 axis DRO resolution 1 micron
- Precision co-ordinate table on flat & V type turcide coated guide ways driven by ball screw
- Double door large work tank for ease of loading & unloading of workpiece
- Oil level alarm, Oil temperature alarm
- Highly accurate work head with the quill running on preloaded cross roller bearing and ball screw
- High speed quill movement with Panasonic AC servo motor
- Attractive compact looks
- Hand held multi function remote control
- Z axis lock function
- Mm and Inch display
- Reverse servo machining
- Safe & stable, No arc machining
- Like to like material machining
- Calibrated EDM technology
- Automatic lubrication system
- Fire extinguisher, Smoke detector alarm
- Self diagnostic trouble shooting with alarm
- Sleep mode, Auto mode
- Efficient dielectric system with double filtration

Standard Accessories

- Axis Corrector
- Flat Electrode Holder
- Round Electrode Chuck
- Flushing Aids
- Clamping Kit
- Mounting/Leveling Pads
- Tool Kit

Optional Accessories

- Servo stabilizer
- Edm oil
- Orbital attachment
- Translatory head
- Magnetic chuck
- Mirror finishing special circuit



Specification	Unit	ZNC-30S	ZNC-35S	ZNC-45S	ZNC-50S	ZNC-70S
Work Tank (WxDxH)	mm	785 x 540 x 320	875 x 540 x 380	1205 x 600 x 450	1255 x 685 x 480	1940 x 1050 x 600
Working Table	mm	500 x 300	630 x 350	700 x 450	800 x 500	1200 x 700
Longitudinal Travel (X axis)	mm	300	350	450	500	700
Transverse Travel (Y axis)	mm	200	250	350	400	600
Quill Travel (Z axis)	mm	200	200 + 200	250 + 250	250 + 250	300 + 300
Quill to Working Table	mm	560	650	700	760	1000
Max. Electrode Weight	kg	50	75	75	100	150
Max. Workpiece Weight	kg	450	500	700	1000	2000
Oil Tank Capacity	Ltr	300	350	500	500	800
Drive System for Z Axis		AC Servo	AC Servo	AC Servo	AC Servo	AC Servo
Machine Weight	kg	1200	1300	1600	1900	3500
Machine Dimension	mtr	1.50 x 1.20 x 2.32	1.60 x 1.25 x 2.50	1.90 x 1.60 x 2.40	2.00 x 1.60 x 2.50	2.10 x 2.00 x 2.80
Pulse Generator						
Max. Working Current	amp	30 (60AMP & 90 AMP OPTIONAL)				
Max. MRR	mm ³ /min	300				
Min. Electrode Wear	%	0.1				
Best Surface Finish (Ra)	μ	0.15 with mirror function / 0.40 without mirror function				
Power Supply	volt	3 Phase, AC415V/50Hz				
Connected Load	kVA	10				

DRILL EDM (NEXT GEN)



Salient Features

- Ball screw for X and Y axis
- L. M. guide for Z axis
- Parameter changing is allowable during operation
- Job material steel/copper/brass/aluminium/carbide
- Adjustable high pressure compact water pump with filtration
- 3 axis DRO with depth control
- Motorized work head movement
- Electrode dressing facility
- Job holding fixture & clamp
- Tap water is used as dielectric fluid
- Precise granite table
- Compact footprint
- Brass & copper electrodes can be used
- Machine lamp
- Automatic lubrication pump

Standard Accessories

- Leveling Pads : 4 Nos.
- Clamping Kit : 1 Set
- Tool Kit : 1 Set
- Water Can : 2 Nos.
- Guides : 3 Nos.
- Electrodes : 30 Nos.
- Rubber Seal : 5 Nos

Application

- Start hole for wire cut edm
- Gas discharge
- Ejector pins
- Cooling pins
- Air vent for forging die
- Jet hole
- Filter hole
- Remove broken tap

Optional Accessories

Water Pump



Drill Head



Swivel Head



CNC DRILL EDM



Salient Features

- Ball screw for X & Y axis
- X & Y axis move to coordinate automatically as per program
- L. M. guide for Z axis
- Adjustable high pressure compact water pump with filtration
- Spindle motor drive greatly improve the machining efficiency
- Spindle run smoothly, Low noise
- Processing parameters of the digital display, simple & intuitive
- Operation buttons uses omron micro switch, the failure rate is greatly reduced.
- Parameter changing is allowable during operation
- Job material steel/copper/brass/aluminium/carbide
- Motorized work head movement
- Electrode dressing facility
- Job holding fixture & clamp
- Tap water is used as dielectric fluid
- Precise granite table
- Compact footprint
- Brass & copper electrodes can be used
- Machine lamp
- Automatic lubrication pump
- Windows base software

Standard Accessories

- Leveling Pads : 4 Nos.
- Clamping Kit : 1 Set
- Tool Kit : 1 Set
- Water Can : 2 Nos.
- Guides : 3 Nos.
- Electrodes : 30 Nos.
- Rubber Seal : 5 Nos

Application

- Start hole for wire cut edm
- Gas discharge
- Ejector pins
- Cooling pins
- Air vent for forging die
- Jet hole
- Filter hole
- Remove broken tap

Optional Accessories

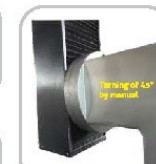
Water Pump



Drill Head



Swivel Head



Technical Specification	Unit	BH-4030	BH-5040
Dimension of working table (X x Y)	mm	400 x 600	440 x 630
Travel of working table (X x Y)	mm	300 x 400	400 x 500
Z axis travel (Z + W)	mm	400 + 350	400 + 350
Distance from quill to table	mm	85 - 435	85 - 485
Max. machining current	amp	30	30
Drilling range	mm	0.30 - 3.00	
Max. electrode length	mm	500	500
Max. workpiece weight	kg	200	300
Max. machining speed	mm/min	30 - 60	30 - 60
Max. power consumption	kVA	3.5	3.5
Drive system for Z axis		Servo Motor	
Input power supply	V	3 Phase, 415V , 50Hz	
Machine dimension	mm	1060 x 1050 x 1950	1250 x 1150 x 2100
Machine weight	kg	500	600

Technical Specification	Unit	CNC-4030	CNC-5040
Dimension of working table (X x Y)	mm	400 x 600	440 x 630
Travel of working table (X x Y)	mm	300 x 400	400 x 500
Z axis travel (Z + W)	mm	350 + 300	350 + 300
Distance from quill to table	mm	50 - 350	200 - 500
Max. machining current	amp	30	30
Drilling range	mm	0.20 - 3.00	
Max. electrode length	mm	500	500
Max. workpiece weight	kg	200	300
Max. machining speed	mm/min	30 - 60	30 - 60
Max. power consumption	kVA	3.5	3.5
Drive system for X, Y, Z axis		Servo Motor	
Input power supply	V	3 Phase, 415V , 50Hz	
Machine dimension	mm	1200 x 1000 x 2170	1300 x 1075 x 2320
Machine weight	kg	800	900

CNC WIRECUT (DC Stepper)

Salient Features

- XY axis on L. M. guide driven by ball screw
- Wire drum on L. M. guide
- Reciprocating molybdenum wire technology
- Fine pitch screw for UV axis moment
- Stepper motor for X, Y, U, V axis
- Flexible job stand for job mounting
- Variable speed AC motor for wire drum
- Sturdy base
- Low running cost
- User friendly software interface
- Color LCD display
- Display of machining time
- 2D/3D graphic simulation of wire path
- Centerised Lubrication pump
- Display of operator help and error message
- Simultaneous control of X, Y, U, V axis
- Single block execution
- Rotation/mirror of program
- Automatic center find, edge find
- Program input from USB
- Wire brake protection mode
- Can cut complex profile job
- Industrial CPU
- Auto short-circuit recovery
- Z axis motorized
- Water tank with filter



Job Sample



Standard Accessories

- Wire Right Angle Block
- Drum Handle
- Molybdenum wire
- Jr3 Gel
- Clamping Kit
- Allen Keys
- Spanner
- Scissor

Optional Accessories

- High Speed Controller
- 10 & 15 degree taper
- Magnetic filter
- Servo motor
- Linear Guide on Z Axis
- Linear Guide on U & V

Parameter/Specification	Unit	ECO-20	ECO-25	ECO-35	ECO-45	ECO-50	ECO-63	ECO-80
Working table (X x Y)	mm	270 x 420	430 x 630	540 x 780	580 x 880	650 x 1000	750 x 1150	980 x 1350
Working travel (X x Y)	mm	200 x 250	250 x 350	350 x 450	450 x 550	500 x 630	630 x 800	800 x 1000
Max. thickness of work piece	mm	300	300	500	500	700	700	800
Max. taper	Deg./mm	±3 Deg /100						
Max. cutting speed	mm ² /min	Std. 100 / (200 High Speed Controller)						
Optimum roughness	um	1.50 (0.80 Multiple Cutting)						
Electrode wire diameter	mm	0.12 To 0.25 (0.18 Std)						
Power consumption	kVA	1.50						
Input power supply	V	3 Phase, 415VAC, 50Hz						
Max. work piece weight	kg.	200	200	300	400	600	800	1000
Working liquid		DM water						
Min. input command	mm	0.001						
Overall weight	kg.	800	1200	1700	1900	2400	3000	4500
Dimension of machine	mtr	1.5x1.0x1.4	1.5x1.0x1.4	1.6x1.3x1.7	1.7x1.5x1.7	2.0x1.7x1.7	2.2x1.9x1.9	2.5x2.1x2.0

CNC WIRECUT (AC SERVO)

Salient Features

- "C" structure, "I" shape machine bed same as brass WEDM structure
- Reusable reciprocating technology
- Linear Guide & Ball Screw for X, Y, U, V, Z Axis & Wire Drum
- Special industrial computer with LCD color display
- **Panasonic AC servo motors** with close loop feedback on X,Y Axis
- Die electric tank with paper filter
- Multi cut, Multi cavity
- AutoCut controller system based on Window XP
- Automatic centerised lubrication system
- Automatic wire tension system
- Motorized Z axis on L. M. guide
- LED working lamp
- Program input from USB, LAN online
- Incremental, Absolute command
- Linear & Circular interpolation
- Steps error, backlash error compensation
- Display of machining time & cutting rate
- 2D/3D graphic simulation of wire path
- Display of operator help & error message
- Simultaneous control of X,Y,U,V axis
- Single block execution
- Rotation/mirror of program
- Automatic center find, Edge find
- Wire brake protection mode
- Auto gap short recovery
- Alarm light
- Resumption of cutting from power fail position



Optional Accessories

- Bigger Taper
- Higher Z Height
- Magnetic Filter
- U & V Servo

Standard Accessories

- Wire Right Angle Block
- Drum Handle
- Molybdenum Wire
- DIC 206 Fluid
- Tool Kit
- Allen Keys
- Leveling Pads
- Spanner
- Scissor

Job Sample



Specification	Unit	ECO-35S	ECO-45S	ECO-50S	ECO-63S	ECO-80S
Work Table Travel	mm	350 x 450	450 x 550	500 x 630	630 x 800	800 x 1000
Work Table Size	mm	550 x 800	570 x 880	750 x 1000	850 x 1350	980 x 1580
Max. Workpiece Thickness	mm	300	300	300	300	400
Max. Taper Angle	°/mm	±3°/80 (±10°/120 Optional)				
Max. Cutting Speed	mm ² /min	200				
Positional Accuracy	mm	±0.005				
Max. Working Current	amp	10				
Optimum Roughness	μ Ra	1.50 Single Cut & 0.60 Multiple cutting				
Range of Wire Diameter	mm	0.12 - 0.25 (0.18 Std)				
Wire Traveling Speed	m/mm	5 - 11				
Max. Workpiece Weight	kg	300	400	600	800	1200
Working Liquid		DM Water				
Input Power Supply	volt	3 Phase, AC415V/50Hz				
Power Consumption	kVA	2.5	2.5	2.5	4.0	4.0
Machine Dimension	mtr	1.8x1.8x1.9	1.9x1.9x1.9	2.0x2.0x2.0	2.4x2.6x2.5	2.5x2.1x2.0
Machine Weight	kg	2000	2300	2700	4000	5500

LASER WELDING MACHINE

Salient Features

- High Accuracy, the welding rod diameter is 0.20 - 0.60 mm.
- Little affect area, no distortion of the processing parts.
- No etching effect after welding, low oxidation rate, the color of the processing parts is intact.
- No blow holes appeared after welding.
- Can process at the welding point, especially applicable to repair moulds & dies.
- Laser welding can be done on hard parts hardness up to 50-60 HRC.

Applicable to material and field

Laser welding can be used in welding SS, H13, D2, D3, SKD11, SKD61, P20, STARVAX, ALUMINUM, COPPER, EN31, NICKEL etc.

Type of Table

- Manual
- Motorized
- Automatic

Job Sample



Optional Accessories



CRANE TYPE



NORMAL TYPE

Structure of Machine

- Normal
- Crane Type

Technical Specification		JKW-200	JKW-400	JKW-600
Average Laser Power	w	200	400	600
Max. Energy of Single Pulse	j	75	120	120
Laser Wave length	nm	1064		
Pulse Width	ms	0.30 - 20		
Laser Welding Frequency	Hz	0.50 - 100		
Spot Size Range	mm	0.20 - 2.00	0.30 - 3.00	0.30 - 3.50
Welding Size	mm	0.10 - 0.40	0.10 - 0.60	0.10 - 0.80
Input Power Supply	v	220v 1 Phase 50Hz		
Power Consumption	kw	8	12	15
Water Pressure Protection	mpa	0.025		
Cooling Water Temperature	degree	35		
Temperature Protection	degree	45		
Cooling Water Flow	L/min	10		
Cooling Way		Water Cooling		
Laser Type		Pulse		

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FIBER LASER MARKING/ENGRAVING

Salient Features

- Fiber laser: high- speed scanning galvo mirror; English operation system.
- Strong software functions, convenient Control Panel, set and deal separately.
- Professional control software is compatible with AutoCAD, CorelDraw and Photoshop.
- It could achieve the auto arrangement and amendment of letter, symbol, pattern, figure, image, bar code, 2D code, serial number, and auto increasing, etc. It supports PLT, PCX, AI, DXF, BMP, JPG format pictures.
- It is also available by using TIF, SHX character code.

Specification	
Laser Type	FIBER / UV / MOPA / 3D
Laser Power	20W, 30W, 50W, 60W, 80W, 100W
Marking Area	100 x 100 mm (150x150 & 200x200 mm Optional)
Marking Depth	0.01 - 0.10 mm
Wavelength	1064 nm
Beam Quality	<1.80
Repeat Frequency	30-80 KHz
Beam Divergence	- 0.30 - +0.30 mrad
Resolution	18um
Repeatability	50um
Linear Speed	800 Characters
Marking Linear Speed	12000 mm/s
Min. Line Width	0.012 mm
Min. Character Size	0.20 mm
Repeat Accuracy	+/- 0.003 mm
Input Power	0.60 Kw
Power Supply	Single Phase AC200V/50Hz

Job Sample



ROTARY

Optional Accessories

- Z axis motorized
- Portable type machine
- Online UPS

MICRO TIG WELDING MACHINE

Salient Features

- Firm: The welded area can sustain milling and filling without peeling off.
- Precise: 0.03 mm -0.22 mm less waste of filler, easier trimming afterward.
- Minimum Annealing: Heats only a tiny spot, minimize damage of annealing.
- Protection Function: Automatic protection against damage of mis-operation & accident.

Applications

Repairing wear, tear and erosion of moulds, die and tools, dents and bad corners, foundry defects, TIG defects, etc

Specification	Unit	JKMTW
Frequency Range		1-5 Hz Automatic adjustment
Pulse Power	W	0.05 - 40
Power Consume	W	10-1000
Function		Precise / Normal / , Single / Continuous
Welding Mode		1, 2, 3, 4
Power	V	AC220V/50Hz
Weight	Kg	9
Dimension	mm	350 x 210 x 150



CNC ENGRAVING MACHINES



Salient Features

- High precision ball screw/L.M. guide ways (Hiwin)
- Lead shine stepper motors & drives
- Advance PC based controller
- Automatic lubrication system
- Works with G code like .tap, .nc, .opt, .plt
- Suitable for engraving on Steel, Brass, Copper & Aluminum
- Double fixed column, Table movement for stable working
- Cast iron robust structure

Standard Accessories

- Tool length calibrator
- Automatic lubrication system
- Machine lamp
- Coolant system
- Clamping kit
- Levelling pad
- Spanners

Optional Accessories

- 4th Axis Rotary Attachment
- Auto Tool Changer
- Water Chiller
- Vacuum Table
- MPG hand remote

Type of Controllers



NK105 CONTROLLER



SYNTEC CONTROLLER



NK280 CONTROLLER



NC STUDIO



DSP CONTROLLER



NC STUDIO

Optional Accessories



WATER CHILLER



ROTARY ATTACHMENT

Parameter / Specification	Unit	JK-404	JK-606	JK-609
Working Table (X x Y)	mm	440 x 440	620 x 620	620 x 920
Working Travel (X x Y)	mm	400 x 400	600 x 600	600 x 900
Travel (Z axis)	mm	200	200	200
Feeding Height (Z axis)	mm	200	200	300
Position accuracy	mm	0.01 / 300		
Repeatability	mm	0.008		
Spindle speed	rpm	6000 - 24000		
Spindle power	kw	2.2 kw (Water cooling) 3.2 kw, 4.5 kw & 5 kw (Optional)		
Control system		NC Studio / DSP / NK105 / NK280 / SYNTEC 6MA		
Drive system		Stepper / Servo		
Max. rapid travel speed	m/min	6		
Max. working speed	m/min	3		
Input power supply	V	Single phase, 220VAC (3Phase 415VAC , 50Hz Optional)		
Gross weight	kg	500	800	1000
Over all dimension	mm	850 x 800 x 800	950 x 850 x 850	1000 x 1300 x 1000

CNC WOOD/STONE ROUTER

Salient Features

- Integrally Cast Iron Bed Structure, Robust and without distortion.
- Y axis Double Motor Driving System ensures Stable & Smooth Movement.
- High Precision Rack Gear Transmission ensures fast speed & High Accuracy.
- T-slot Aluminium Table with Dust Collector.
- Leadshine Stepper Motors & Drives.
- Lubrication System.
- High Precision Taiwan TBI ball screw.
- Easy to maintain, cutting surface is smooth, saving time and labor.

Job Sample



5 Axis Rotating Head



Standard Accessories

- Leveling Pads-6 Nos.
- Tool Kit-1 Set,

Technical Specification	Unit	JK-1325WR	JK-1530-5A
Travel of working table (X Axis)	mm	1300	1500
Travel of working table (Y Axis)	mm	2500	3000
Travel of working (Z Axis)	mm	200	600
Spindle	Kw	3Kw Water Cooling	9Kw (HSD)
Spindle Rotating Speed	rpm	3000 ~ 24000	
X, Y Position Accuracy	mm/min	± 0.05	
Max. Cutting Speed	mm/min	20000	
Max. Rapid Travel	mm/min	30000	
Graphic Format		G-code / u00 / MMG / PLT	
Compatible Software		Coral Draw / AutoCad / Photoshop	
Control System		DSP / NC Studio	
Working Voltage	V	AC230V SINGLE PHASE / AC415V/50Hz 3 PHASE	
Connected Load	Kw	3	15
Drive & Motor		Stepper/Servo Motor & Drive	
Machine Weight	Kg	1800	3000

END MILL GRINDER

Specification	Unit	JKEM-03-13	JKEM-04-20
Range	mm	03-13	04-20
Motor	W	180	
Motor Speed	RPM	4800	
Diamond Wheel		CBN1203/300 (SSDC1203/3003)	
Collet		2 Flute, 3 Flute, 4 Flute - 1 Set each	
Power	V	AC220V/50Hz	
Weight	Kg	25	
Dimension	mm	350 x 230 x 240	



DRILL BIT GRINDER

Specification	Unit	JKDB-03-13
Range	mm	03-13
Motor	W	180
Motor Speed	RPM	4800
Diamond Wheel		CBN1203/300 (SSDC1203/3003)
Point Angle	Degree	95 - 135
Power	V	AC220V/50Hz
Weight	Kg	10
Dimension	mm	320 x 180 x 190



SINGLE LIP CUTTER GRINDER

Specification	Unit	JKSL-3-16
Collet Diameter	mm	3-16
Grinding Diameter	mm	3-16
Taper Angle	Degree	0-180
Relief Angle	Degree	0-45
Motor Speed	RPM	2800
Motor		220V/50Hz 1/3 HP
Weight	Kg	45
Dimension	mm	450 x 400 x 350



DIGITAL READ OUT SYSTEM



DRO 3 AXIS EDM



DRO 2 AXIS LATHE/MILLING



DRO 3 AXIS LATHE/MILLING



DRO 3 AXIS LCD

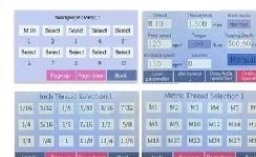


LINEAR GLASS SCALE



LINEAR MAGNETIC SCALE

TAPPING MACHINE



Touch Screen Display



Internal Tapping



Outer Circular Die



Chamfer of Inner Hole



Self Tapping Brass



Magnetic Base
300 Kg / 600 Kg



Various Materials can be Tapping

Specification	Unit	M3-M12	M3-M16	M6-M24	M6-M30	M6-M36	M6-M48
Working Table	mm	900x600x700					
Tap Capacity	mm	3 to 12	3 to 16	6 to 24	6 to 30	6 to 36	6 to 48
Motor		Servo					
Motor Power	W	600	600	1200	1200	1200	1200
Motor Speed	rpm/m	1000	375	200	200	125	50-250
Input Power	V	220V Single Phase 50Hz					
Weight	Kg	32	32	49	49	67	125
Machine Dimension	mm	700x660x220	700x660x220	810x770x220	810x770x220	810x770x220	1200x1020x240

CONSUMABLES & SPARES

Drill EDM Spares Parts & Consumables



WATER AIR PUMP



WATER PUMP



BRASS/COPPER ELECTRODE



MULTI HOLE ELECTRODE



RUBBER SEAL



KEYLESS DRILL CHUCK



TAIWAN DRILL HEAD



CHINA DRILL HEAD



ROUND DRILL HEAD



DRILL CHUCK



DRILL GUIDES

WireCut EDM Spare Parts & Consumables



FILTERS



JR3JEL



WATER LIQUID



DIC-206



GUIDES/CARBIDES



ROLLER BALL BEARINGS



U&V MOTOR



X&Y MOTOR



BRASS ASSEMBLY



ROLLERS



RESIN



MOLYBDENUM WIRE

EDM Accessories & Consumables



SERVO STABILIZER



EDM OIL



PAPER FILTER



ORBITAL ATTACHMENT



TRANSLATORY HEAD



AXIS CORRECTOR



X,Y,Z BALL SCREW



ELECTRODE HOLDER
STAINLESS



ELECTRODE HOLDER
BRASS



ELECTRODE HOLDER
BRASS



VMC CHUCK



EDM CHUCK



CENTRING PROB



COLLET HOLDER



SPIGOT

Laser Welding Spare Parts & Consumables



XENON LAMP



LASER WIRES



PROTECTION GLASS



JOY STICK



YAG LASER



OTHER SPARES

Vertical Injection Molding (Standard Table)



SINGLE/DOUBLE/ROTARY SLIDE

STANDARD

- Micro processor based Tachimation / Porcheson controller.
- Nitrided steel screw & barrel directly driven by high torque hyd. motor
- Multi stage speed pressure & position for injection & clamping
- Screw cold start prevention
- Close loop barrel temperature control
- Molding condition monitoring with alarm
- Low pressure mold protection device
- Hydraulic RAM type clamping system
- Safety sensor for machine & operator safety
- Automatic purge system
- Emergency stop
- Proportional pressure & flow control valves
- Barrel cover
- Set of easy damage parts
- Level Pads / Tool kit set
- Steel Hopper

Specification	Unit	ST-160	ST-200	ST-400	ST-550	ST-700	ST-900	ST-1200	ST-1600
Screw Diameter	mm	22	25	28	30	32	36	42	55
Injection Pressure	kg/cm ²	1627	1260	1446	1107	1659	1311	1722	1855
Theoretical Shot Volume	cm ³	40	52	68	88	96	122	183	286
Max. Shot Weight	g/oz	30/1.30	46/1.60	61/2.10	79/2.70	86/3.00	109/3.80	164/5.70	224/7.80
Injection Rate	cm ³ /sec	36	46	50	65	57	73	91	124
Temperature Control zone	zone	2	3	3	3	3	3	4	4
Material Hopper Capacity	L	15	15	15	15	15	30	30	60
Clamping Force	T	16	20	40	55	70	90	120	160
Opening Force	T	6.3	5	4	5	11	16	19	16.5
Distance Between Tie Bars	mm	280 x 145	355 x 225	415 x 255	490 x 300	500 x 340	560 x 410	660 x 510	660 x 630
Min. Mold Height	mm	120	100 (150 Optional)	150 (200 Optional)	150 (200 Optional)	200 (250 Optional)	200 (250 Optional)	250 (300 Optional)	300 (350 Optional)
Opening Stroke	mm	160	180	200	200	250	270	300	300
Max. Open Daylight	mm	200	280 (330 Optional)	350 (400 Optional)	350 (400 Optional)	450 (500 Optional)	470 (520 Optional)	550 (600 Optional)	600 (650 Optional)
Ejector Force	T	1.30	1.30	1.30	1.30	2.70	2.70	3.90	5.40
Ejector Stroke	mm	40	40	50	50	60	60	75	95
Max. Hydraulic Pressure	kg/cm ²	140	140	140	140	140	140	140	140
Pump Output	L	80	130	180	180	200	250	350	400
Pump Motor Power	kw	3	4	5.50	5.50	11	11	15	18.50
Barrel Heating Power	kw	2.10	2.70	3.60	3.60	4.50	4.50	7.70	10.50
Total Weightage	kg	5.10	6.70	9.10	9.10	15.50	15.50	22.70	29
Machine Weight	kg	760	1200	1700	1900	3000	4200	5800	7300
Machine Dimension	mm	1300 x 800 x 2300	1400 x 900 x 2400	1800 x 1000 x 2400	1800 x 1000 x 2400	2000 x 1200 x 3100	2200 x 1300 x 3100	2600 x 1100 x 3600	2700 x 1200 x 3800

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