

PRODUCT CATALOGUE
SERVING SINCE 2009



J.K. MACHINES

Deals In industrial Machinery

**PERSISTENCE TO
QUALITY ENSURES VALUE**





Deals In industrial Machinery



J.K. SHARMA
CEO

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.

The organization was incorporated with an aim to come up with the most innovative and high-tech range of machinery, sourced from across the globe, which in turn meets the exact requirements of our clients.

Customer understanding and our reciprocation to their needs by providing the right machining technology, Excellent after sales service that have helped us to become a reliable, multi-product and multi-location organization in a short span of time.

Owing to our excellent quality and ethical business norms, we are continuously associating new clients with our company. The quest for perfection and customer satisfaction urges us to bring in innovation in our products and finding new ways of benefiting our clients.

Since year 2009 we have dedicated association with industry. We will continue to bring the latest technology machines at affordable prices.



OUR PRODUCTS RANGE



CNC EDM (Pg. No. 03)



CNC EDM (Pg. No. 04)



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VERTICAL MOULDING (Pg. No. 21)

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 (Optional)
- 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 hole

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



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 1300x 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
Machine Dimension	mm							
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	8						
Dielectric tank								
Oil Tank Capacity	Ltr	800		1500		1800		
Oil Pump Motor Power	HP							

CNC EDM (INTERGATED TYPE)

Salient Features

- Panasonic AC servo for X, Y & Z axis.
- 15 inch LCD screen
- 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 hole

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
- Mirror processing special circuit
- Magnetic chuck



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	4	6	8	10
Dielectric tank					
Oil Tank Capacity	Ltr	300	400	500	600
Oil Pump Motor Power	HP	0.50	0.75	0.75	0.75

ZNC EDM (DC SERVO)

Salient Features

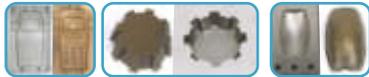
- Seven Segment
- Programmable Z axis
- 10 Step, 10 Programs storage
- Built in 3 axis DRO
- Integral design and compact footprint
- Precision co-ordinate table on flat & V type turcide coated guide ways driven by ball screw
- Double door large work tank for ease of loading & unloading of work piece
- 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		80A / 80AL		100A / 100AL
Max. working current	amp	40		80		100
Max. MRR	mm ³ /min	200		500		600
Min. electrode wear	%			<0.2		
Best surface finish	Ra			0.5		
Input power supply	V			3 Phase, AC 415V, 50 Hz		
Connected load	kVA	4		8		12
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
- Mirror finishing special circuit (Optional)
- Built in 3 axis DRO resolution 1 micron
- Precision co-ordinate table on flat & V type turcise coated guide ways driven by ball screw
- Double door large work tank for ease of loading & unloading of workpiece
- Oil level alarm, Oil temprature alarm
- Highly accurate work head with the quill running on preloaded cross roller bearing and ball screw
- High speed quill moment 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

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
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	8				
Dielectric tank						
Oil Tank Capacity	Ltr	300	350	500	500	800

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

Water Pump



Swivel Head



Drill 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	4
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

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

Water Pump



Swivel Head



Drill Head



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
- Centerlised 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

Optional Accessories

- 10 & 15 degree taper
- Magnetic filter
- Servo motor

Job Sample



Standard Accessories

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



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	400 x 560	500 x 740	600 x 840	670 x 1000	770 x 1180	990 x 1360
Working travel (X x Y)	mm	200 x 250	250 x 320	350 x 450	450 x 550	500 x 630	630 x 800	800 x 1000
Max. thickness of work piece	mm	300	300	400	400	500	700	700
Max. taper	Deg./mm	±3 Deg /100						
Max. cutting speed	mm ² /min	120 / (200 High Speed Controller)						
Optimum roughness	um	1.50						
Electrode wire diameter	mm	0.12 To 0.18						
Power consumption	kVA	3	3	3	3	4	4	4
Input power supply	V	3 Phase. 415VAC, 50Hz						
Max. work piece weight	kg.	200	200	300	400	800	1000	1500
Working liquid		DM water						
Min. input command	mm	0.001						
Overall weight	kg.	800	900	1200	1400	2400	3200	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/Mitsubishi 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 centerlised 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 400	450 x 550	500 x 630	630 x 800	800 x 1000
Work Table Size	mm	550 x 800	570 x 880	650 x 1000	850 x 1350	980 x 1580
Max. Workpiece Thickness	mm	300	300	300	400	400
Max. Taper Angle	°/mm	±3°/80 (±6°/100 & ±10°/120 Optional)				
Max. Cutting Speed	mm ² /mm	300				
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				
Wire Traveling Speed	m/mm	5 - 11				
Max. Workpiece Weight	kg	300	400	600	800	1500
Working Liquid		DM Water				
Input Power Supply	volt	3 Phase, AC415V/50Hz				
Power Consumption	kVA	2.5				
Machine Dimension	mtr	1.8x1.7x1.9	1.9x1.8x1.9	2.0x2.0x2.0	2.4x2.6x2.5	2.5x2.1x2.0
Machine Weight	kg	1800	2100	2700	4500	6500

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.



CRANE TYPE

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



NORMAL TYPE

Job Sample



Optional Accessories



Magnetic Ball



Smoke Suction



Rotary



360° Rotate Lens

Optional Accessories

- Rotary Device
- Magnetic Vice
- Smoke Sunction Device
- LCD Screen

Structure of Machine

- Normal
- Crane Type

Technical Specification		JKW-200	JKW-400
Average Laser Power	w	200	400
Max. Laser Power	w	240	440
Max. Energy of Single Pulse	j	75	90
Laser Wave lenght	nm	1064	
Pulse Width	ms	0.30 - 20	
Laser Welding Frequency	Hz	0.50 - 100	
Spot Size Range	mm	0.20 - 2.00	
Welding Size	mm	0.10 - 0.40	0.10 - 0.60
Input Power Supply	v	220v Single Phase 50Hz	380v 3 Phase 50Hz
Power Consumption	kw	6	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	
Machine Over all Dimension	mm	1000 x 600 x 1500	
Machine Over all Weight	kg	300	

HAND HELD LASER WELDING

Salient Features

- The welding speed is 2-10 times faster than the traditional welding speed.
- It can help you to save at least two welders a year.
- Laser welding consumes less material and has a long-life.
- Easy to operate, no need welding work license
- New corner can also weld products beautifully.
- The welding seam is smooth and beautiful, which reduces the subsequent grinding process and saves time and cost.
- No deformation, no weld scar, welding firmly.
- Safer and more environmentally friendly.

Welding Depth Data

Power	Stainless Steel	Carbon Steel	Aluminum
1000W	1.50 mm	1.50 mm	0.50 mm
1500W	2.50 mm	2.50 mm	0.60 mm
2000W	3.00 mm	3.00 mm	0.80 mm



Job Sample

LASER HANDLE

AUTOMATIC WIRE FEEDER

Technical Specification	Unit	JK-1000W	JK-1500W	JK-2000W	JK-3000W
Max. Energy of single pulse	J	100	100	120	125
Laser Type		CW Continuous Laser			
Laser wavelength	nm	1064			
Laser welding frequency	HZ	1000			
Laser spot diameter	mm	0.40 - 2.00			
Weld penetration	mm	0.10 - 3.00			
Power can be adjustable	%	5 - 100			
Pulse width	ms	1			
Cooling water temperature	deg.	<35			
Temperature protection	deg.	40			
Cooling water flow	min.	15			
Protective gas		Nitrogen gas			
Input power supply	V	Single Phase 220v / 50Hz		Three Phase 380v/50Hz	
Machine weight	kg	390	390	420	560

FIBER LASER CUTTING

Salient Features

- Heavy Structure
- Raycus laser Source (IPG Optional)
- Panasonic/Yaskawa Servo Motors & Drives
- Auto Height Adjustment
- High Precision Taiwan TBI ball screw
- Easy to maintain and cutting surface is smooth, no burr, saving time and labor.

Standard Accessories

- Leveling Pads-6 Nos.
- Tool Kit-1 Set,
- Protect Glass-1 Nos.
- Nozzle-2 Nos.
- Ceramic Ring-1 Nos.
- Wrench-1 set

Laser Source



Industrial Chiller



Job Sample



Technical Specification	Unit	JK-1330FL	JK-1530FL
Travel of working table (X Axis)	mm	1300	1500
Travel of working table (Y Axis)	mm	3000	3000
Travel of working (Z Axis)	mm	120	120
Fiber Laser Power	w	1000/1500/2000/3000	
X, Y Position Accuracy	mm/min	± 0.02	
Max. Cutting Speed	mm/min	12000	
Max. Rapid Travel	mm/min	60000	
Graphic Format		BMP/PLT/DST/DXF/AI	
Compatible Software		Coral Draw/AutoCad/Photoshop	
Control System		AuTech	
Working Voltage	V	AC230V SINGLE PHASE / AC415V/50Hz 3 PHASE	
Connected Load	Kw	10	
Drive Motor		Servo Motor	
Machine Weight	Kg	1800	2000

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 (200 x 200 mm Optional)
Marking Depth	0.05 - 1.20 mm
Wavelength	1060 nm
Beam Quality	<1.50
Repeat Frequency	10KHz - 100KHz
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	0.15 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		3-101 Hz Automatic adjustment
Output Power	W	30
Power Consume	W	5-900
Function		Precise / Normal / Single / Continuous
Welding Mode		0 , 1 , 2 , 3 , 4 , 5
Power	V	AC220V/50Hz
Weight	Kg	15
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



NK105 CONTROLLER



SYNTEC CONTROLLER



NK280 CONTROLLER



NC STUDIO



DSP CONTROLLER



NC STUDIO



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 ROUTER

Standard Accessories

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 Alluminium 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.

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



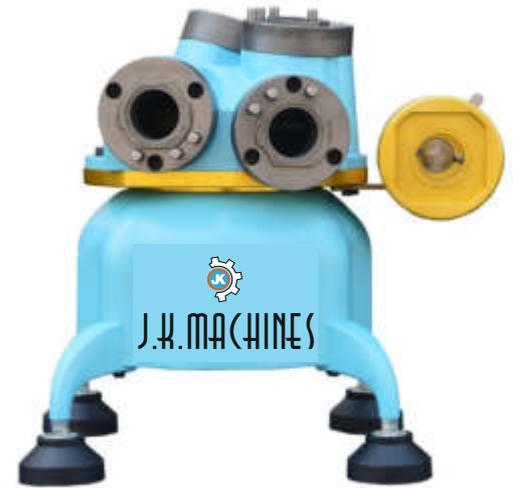
Job Sample



Technical Specification	Unit	JK-1325WR
Travel of working table (X Axis)	mm	1300
Travel of working table (Y Axis)	mm	2500
Travel of working (Z Axis)	mm	200
Spindle	Kw	3Kw Water Cooling
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
Drive & Motor		Stepper Motor & Drive
Machine Weight	Kg	1800

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	5200
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

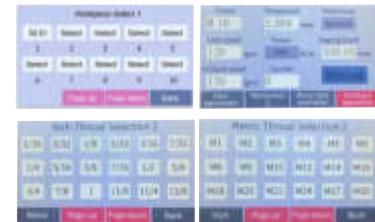


LINEAR GLASS SCALE



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



Steel



Aluminum



Copper

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



ELECTRONICA 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



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ZNC EDM Spares Parts & Consumables



SERVO STABILIZER



EDM OIL



PAPER FILTER



TRANSLATORY HEAD



ORBITAL ATTACHMENT



AXIS CORRECTOR



X,Y,Z BALL SCREW

Laser Welding Spare Parts & Consumables



XENON LAMP



LASER WIRES



PROTECTION GLASS



JOT STICK



YAG LASER



OTHER SPARES

Vertical Injection Molding (Standard Table)



Salient features

- Micro processor based Techmation / 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

STANDARD SINGLE/DOUBLE/ROTARY SLIDE

Specification	Unit	ST-160	ST-200	ST-400	ST-550	ST-700	ST-900	ST-1200	ST-1600
Screw Diameter	mm	22	28	32	36	36	42	45	50
Injection Pressure	kg/cm ²	1627	1446	1659	1311	1722	1265	1572	1275
Theoretical Shot Volume	cm ³	40	68	96	122	183	249	286	352
Max. Shot Weight	g/oz	36/1.30	61/2.10	86/3.00	109/3.80	164/5.70	224/7.80	259/9.00	316/11
Injection Rate	cm ³ /sec	36	50	57	73	91	124	150	185
Temperature Control	zone	2	3	3	3	4	4	4	4
Material Hopper Capacity	L	15	15	15	15	30	30	60	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	280	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 Wattage	kw	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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