Product's Catalogue

Serving Since 2009



J.K.MACHINES

HIGH PRECISION INDUSTRIAL MACHINERY

PERSISTENCE TO QUALITY ENSURES VALUE



CNC EDM NEXT GEN V1.1



MOULD LASER WELDING



MINI VMC SINGLE COLUMN

J.K.MACHINES

HIGH PRECISION INDUSTRIAL MACHINERY



J.K. SHARMA
CEO

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 WIRE CUT EDM, DRILL EDM, CNC DRILL EDM, LASER WELDING, LASER MARKING/ENGRAVING, CNC ENGRAVING, MILLING, SUFACE GRINDER, LATHE, and More.

Since its Establishment the company has continuously innovated and optimized 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 hallmark of J K MACHINES. We nurture value driven relationship with our customers. Others can copy or snatch 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 change rapidly. We must be fully prepared to meet the challenges head-on. Our close collaboration and rapport with the customers make it simple for us to foresee it and get prepared to face it.

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

Most of the competitors are trying to be innovative in the product and technology, but their services are not good. Most of the imported machines come with barely low or no after-sales support. Here, we have a big edge over the competition with a well-trained service network and an 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 IITs, NITs, Engineering Colleges, CIPET, MSME, IGTR, TRTC, Defence organizations such as ISRO, BARC, and DRDO, etc.

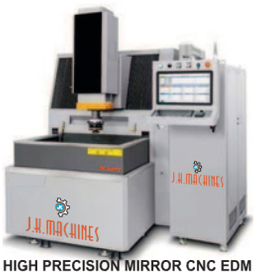
We are registered with GeM, Central/State e-procurement portals since our establishment in year 2009, we have participated in almost every exhibition.



OUR PRODUCTS RANGE



CNC EDM NEXT GEN V1.1 (Pg. No. 03)



HIGH PRECISION MIRROR CNC EDM
AUTOMATIC LIFTING OIL TANK (Pg. No. 04)



CNC EDM (Pg. No. 05)



CNC EDM (Pg. No. 06)



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CNC DRILL EDM (Pg. No. 10)



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LASER MARKING/ENGRAVING
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CNC ENGRAVING (Pg. No. 15 & 16)



CNC ENGRAVING (Pg. No. 15 & 16)



CNC WOOD ROUTER (Pg. No. 17)



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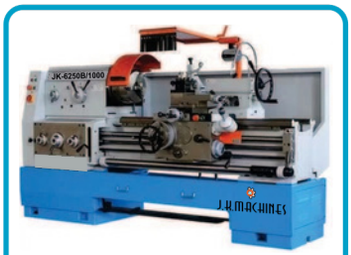
CONSUMABLES/SPARES (Pg. No. 20)



VERTICAL TURRET MILLING (Pg. No. 21)



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ELECTRICAL SCOOTY (Pg. No. 26)

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 Workpiece Co-ordinate 2 Gb Program storage
- Absolute, incremental Dual command
- Multi functional hand control box
- Discharge time indicator
- Smoke sensor & fire extinguisher
- Lateral auto discharge



Optional Accessories

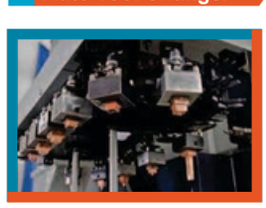
- 4 & 5 Axis Windows based Controller
- Auto Tool Changer
- Oil Cooler
- Servo Stabilizer
- EDM Oil
- Work holding attachements
- C Axis

Specification	Unit	A30	A40	A45
Work table size (L × W)	mm	600×400	700×450	700×450
Work tank internal size (L×W×H)	mm	1020×600×400	1050×650×400	1050×650×400
Oil level adjustment range	mm	48-198	110-292	110-300
Max. capacity of the work tank	L	152	200	235
X, Y & Z axis travel	mm	300×210×270	400×300×300	450×350×300
Maximum electrode weight	kg	50	50	50
Maximum workpiece size	mm	900×580×270	900×600×280	900×600×300
Maximum workpiece weight	kg	500	600	700
Quil to work table distance min/max	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 (L×W×H)	mm	2000×2100×2200	2100×2100×2300	2100×2200×2300
Machine weight	kg	2200	3500	3800
Oil tank Capacity	L	400	400	400
Processing liquid filter type		Switching Cartridge Filter		
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. MRR	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			
Axis compensation	Each axis respectively step error compensation, clearance compensation			
Maximum number of controlled axes	Three axises linkage (standard), four simultaneous axises (optional)			
Resolution of each axis	µm	0.4		
Minimum drive unit	µm	1		

C Axis



Auto Tool Changer



Oil Chiller



HIGH PRECISION MIRROR CNC EDM (AUTOMATIC LIFTING WORK 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 Workpiece Co-ordinate 2 Gb Program storage
- Absolute, incremental Dual command
- Multi functional hand control box
- Discharge time indicator
- Smoke sensor & fire extinguisher
- Lateral auto discharge



Optional Accessories

- 4 & 5 Axis Windows based Controller
- Auto Tool Changer
- Oil Cooler
- Servo Stabilizer
- EDM Oil
- Work holding attachments
- C Axis

Specification	Unit	JK-45RF	JK-60RF
Work table Size (L × W)	mm	600×450	800×550
Working Tank Internal Size (L×W×H)	mm	800×550×350	1050×700×400
Oil level adjustment range	mm	48-198	110-300
Max. capacity of the work tank	L	152	235
X, Y & Z axis travel	mm	450×300×300	600×400×350
Maximum electrode weight	kg	50	50
Maximum workpiece size	mm	900×580×270	900×600×300
Maximum workpiece weight	kg	800	1500
Quil to work table distance min/max	mm	250-550	250-600
Positioning accuracy (JIS standard)	µm/mm	5 µm/(Arbitrarily)300mm	
Repeat accuracy (JIS standard)	µm	2µm	
Overall size (L×W×H)	mm	2100×2100×2300	2100×2200×2300
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 axises linkage (standard), four simultaneous axises (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 efficency
- 15 inch LCD screen
- Mirror processing special circuit
- Automatic protection circuit for carbon deposition prevention
- Multi functional hand control box
- Axis resolution – 1 micron
- Smoke sensor and fire extinguisher
- High lifting height for ultra deep holes

Standard Accessories

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

Optional Accessories

- 4 & 5 axis wondows based controller
- Servo stabilizer
- Edm oil
- 60 AMP & 90 AMP Controller
- Magnetic Chuck
- Work Holding Attachment
- Oil cooler
- C Axis



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	mtr	2.5x2.5x2.7	2.8x2.7x2.7	3.1x3.2x3.3	3.9x3.5x3.3	4.1x3.7x3.5	5.2x4.3x3.6	6.5x4.5x3.8
Pulse Generator								
Max. Working Current	amp	30 (60AMP & 90 AMP OPTIONAL)						
Max. MRR	mm³/ min	300 (600 & 900 OPTIONAL)						
Min. Electrode Wear	%	≤0.1						
Best Surface Finish (Ra)	µ	0.15						
Power Supply	volt	3 Phase, AC415V/50Hz						
Connected Load	kVA	10 (12.50 & 15 OPTIONAL)						
Dielectric tank								
Oil Tank Capacity	Ltr	800		1500	1800			
Oil Pump Motor Power	HP	0.50		0.75	0.75			

CNC EDM (INTERGATED TYPE)

Salient Features

- Panasonic AC servo for Motor 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 holes
- 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

- 4 & 5 axis windows based controller
- Servo stabilizer
- Edm oil
- Magnetic chuck
- Work Holding Attachment
- C Axis
- Oil Cooler

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 (600 & 900 OPTIONAL)			
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 (12.50 & 15 OPTIONAL)			
Oil Tank Capacity	Ltr	Dielectric tank			
Oil Pump Motor Power	Hp	400	500	550	600
		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 with 5 micron resolution
- 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	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	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	560	650	700	760	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	1575 x 1180 x 2320	1605 x 1265 x 2500	1920 x 1580 x 2380	2070 x 1635 x 2450	2100 x 2000 x 2800
	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		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 with 1 micron resolution
- 50 step, 100 program storage
- Built in 3 axis DRO
- 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 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 filteration
- Copper to Steel , Graphite to Steel, Copper to Carbide Parameters can be set

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 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	400	450	500	550	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	mm	1575 x 1180 x 2320	1605 x 1265 x 2500	1920 x 1580 x 2380	2070 x 1635 x 2450	2100 x 2000 x 2800
Pulse Generator						
Max. Working Current	amp	30 (60AMP & 90 AMP OPTIONAL)				
Max. MRR	mm^3/ min	300 (600 & 900 OPTIONAL)				
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 (10 & 12 OPTIONAL)				

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

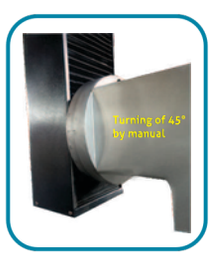
Water Pump



Drill Head



Swivel Head (Optional)



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 (0.20 Upto 10 mm Depth)	
Max. electrode length	mm	500	500
Max. workpiece weight	kg	300	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

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
- 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 based 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



Drill Head



Swivel Head (Optional)



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 massage
- 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

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

Job Sample





Standard Accessories

- 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	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	±6 Deg /80						
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	2						
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/Mitsubishi AC servo motors with close loop feedback on X,Y Axis
- Die electric tank with paper filter
- Multi cut, Multi cavity
- AutoCut 10.1 controller system based on Window 10
- Automatic centerlised lubrication system
- MPG remote for axis movement and machine run
- 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 massage
- 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/mm	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	mm	1800x1800x1900	1900x1900x1900	2000x2000x2000	2400x2600x2500	2500x2100x2000
Machine Weight	kg	2000	2300	2700	4000	5500

LASER WELDING MACHINE

Salient Features

- 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.
  YAG laser technology for stable welding
  FIBER Laser Machine also available



CRANE TYPE

Type of Table

- Manual
- Motorized
- Automatic

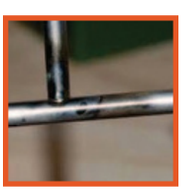
Weldable Materials

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

Structure of Machine

- Normal
- Crane Type

Job Sample






Optional Accessories


Magnetic Vice


Smoke Suction


Rotary


360˚Rotate Lens



NORMAL TYPE

Technical Specification	Unit	JKW-200	JKW-400	JKW-600
Average Laser Power	w	200	400	600
Max. Energy of Single Pulse	j	75	120	120
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	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 Single Phase 50Hz	380v 3 Phase 50Hz	380v 3 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		
Machine Over all Dimension	mm	1000 x 600 x 1500		
Machine Over all Weight	kg	300		

FIBER LASER MARKING/ENGRAVING

Job Sample



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 byusing TIF, SHX character code.

Specification	
Laser Type	FIBER / UV / MOPA / 3D
Laser Power	20W, 30W, 50W, 60W, 80W, 100W & more
Marking Area	100x100 mm (150x150/200x200/300x300 MM Optional)
Marking Depth	0.01 - 1.20 mm
Wavelength	1060 nm
Beam Quality	<1.80
Repeat Frequency	30KHz - 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. Charater Size	0.20 mm
Repeat Accuracy	+ 0.003 mm
Input Power	0.60 Kw
Power Supply	Single Phase AC200V/50Hz



ROTARY (Optional)



Optional Accessories

- Z axis motorized
- Portable type machine
- Online UPS

MICRO TIG WELDING MACHINE

Salient Features

- Precision microtig welding for mould and die repair
- Minimal heat affected zone
- Suitable for welding for Die steel/copper/aluminium/stainless steel
- High welding accuracy with negligible distortion
- Compact and portable design

Application

Mould & Die Repair, Plastic Injection Moulds, Pressure Die Casting Dies, Punches & Die, Cutting Tools, Foundry Defects, Crack Repair, Edge Build-up, Precision Component Repair

Specification	Unit	JKMTW
Frequency Range		1-5 Hz Automatic adjustment
Pulse Power Welding	W	0.05 - 40
Power Welding Mode	W	10-1000
Electrode Size Input	1-2-3-4	Precise / Normal /, Single / Continous
Power Supply Weight	mm	0.20 - 2.00
Dimension	V	AC220V/50Hz
	Kg	9
	mm	350 x 210 x 150



CNC ENGRAVING MACHINES









Salient Features

- High precision ball screw/L.M. guide ways (Hiwin)
- Leadshine/Panasonic/Delta/Yaskawa Stepper/Servo 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
- 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
- SPM Available

Type of Controllers



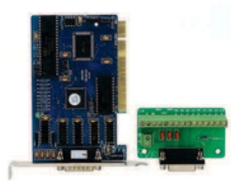
Nk105 CONTROLLER



SYNTEC CONTROLLER



Nk280B CONTROLLER



NC STUDIO

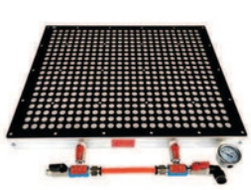


DSP CONTROLLER



NC STUDIO

Optional Accessories



VACUUM TABLE



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		Steeper / 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

- Cast Iron/Steel Fabricated 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 Aluminum Table with Dust Collector
- Lead shine Stepper Motors & Drives.
- Automatic Lubrication System.
- High Precision Taiwan ball screw & L M Guide
- Easy to maintain, cutting surface is smooth, saving time and labor.

Standard Accessories

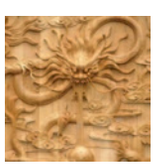
- Leveling Pads
- Tool Kit

Optional Accessories

- Dust Collector
- Auto Tool Changer
- Water Chiller
- Servo Stabilizer
- Servo Motor and Drives
- SPM



Job Sample



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		Corel Draw / Auto Cad / 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	JKDB-13-30
Range	mm	03-13	13-30
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



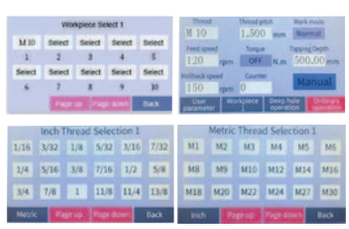
LINEAR MAGNETIC SCALE

TAPPING MACHINE









Touch Screen Display



Internal Tapping



Outer Circular Die



Chamfer of Inner Hole



Self Tapping Brass

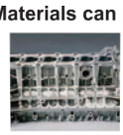


Magnetic Base
300 Kg / 600 Kg

Various Materials can be Tapping



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 PNEUMETIC PUMP


WATER PUMP

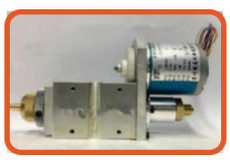

BRASS/COPPER ELECTRODE


MULTI HOLE ELECTRODE


RUBBER SEAL


KEYLESS DRILL CHUCK


TAIWAN DRILL HEAD

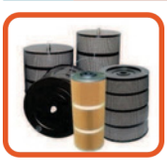

CHINA DRILL HEAD


ROUND DRILL HEAD


DRILL CHUCK


DRILL GUIDES

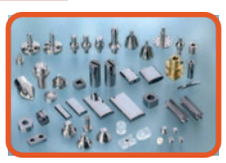
Wire Cut EDM Spare Parts & Consumables


FILTERS


JR3JEL


WATER LIQUID

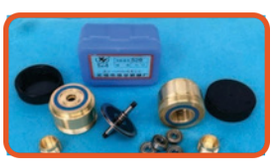

DIC-206

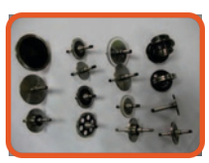

GUIDES/CARBIDES


ROLLER BALL BEARINGS


X & Y MOTOR


U&V MOTOR


BRASS ASSEMBLY


ROLLERS


RESIN


MOLYBDENUM WIRE


BALL SCREW

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

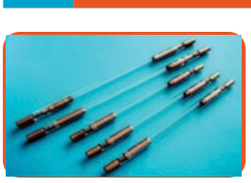

EDM CHUCK


CENTERING PROBe


COLLET HOLDER


SPIGOT

Laser Welding Spare Parts & Consumables


XENON LAMP

LASER WIRES

PROTECTION GLASS

JOY STICK

YAG LASER

OTHER SPARES

VERTICAL TURRET MILLING

Salient Features

- Round/Square/Hex head milling machine
- Adjustable nut design for minimal backlash
- Double lock on saddle, ram & knee
- X axis & Y axis lined with turcide B coating
- Double speed motor for high RPM
- Built in standard coolant tank in the base of machine
- Electric panel box fuse, overload relay etc.
- Hardened & Ground X & Y slide ways
- CE Certified



Standard Accessories

- 2 Axis DRO
- Collet Set
- Clamping Kit (52 Nos)
- Machine Vice
- Chip Pan Tray
- Machine Lamp
- Tool Box
- Lubrication System
- Draw Bar

Optional Accessories

- Axis Power Feed
- ISO-30 Spindle Taper
- Boring Head Set
- Rotary Indexing Table
- Dividing Head
- Horizontal Milling Attachment
- 3rd Axis DRO with Scale

Technical Specification	Unit	M3	M4	M5
Table Size	mm	1270 x 254	1370 x 254	1370 x 306
Longitudinal Travel	mm	830	930	930
Cross Travel	mm	400	400	400
Vertical Travel	mm	500	500	500
Table T-slots	mm	16x3x63	16x3x80	16x3x80
Spindle Motor	HP	3	3	3
Spindle Speed	RPM	50-4260	50-4260	50-4260
Spindle Taper		R8		R8
Spindle Nose to Table	mm	40-510	40-510	40-510
Spindle Centre to Column Surface	mm	200-680	200-680	200-680
Quill Travel	mm	127	127	127
Auto Quill Feeds	mm/min	0.04/0.08/0.15	0.04/0.08/0.15	0.04/0.08/0.15
Head Swivel		RL 90	RL 90	RL 90
Ram Travel	mm	480	480	480
Max. Load on Table	Kg	300	300	300
Machine Weight	Kg	1200	1250	1300

HYDRAULIC SURFACE GRINDER

Salient Features

- Rigid Meehanite grade cast iron construction
- Hardened & precision ground guide ways
- Hydraulic table movement for smooth operation
- High precision spindle for low vibration
- Automatic lubrication system
- Efficient coolant system
- Easy maintenance
- High surface finish and dimensional accuracy



Standard Accessories

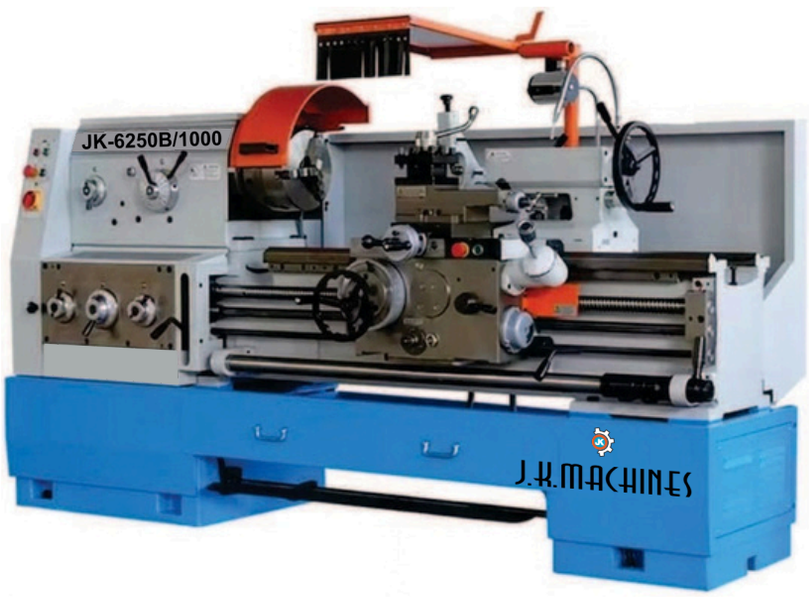
- Grinding wheel
- Grinding wheel flange unit
- Wheel balancing mandrel
- Set of necessary wrenches
- Table mounted wheel dressing block
- Grinding wheel clamping & Extraction bolt
- Levelling Pads & Bolts
- Coolant system

Model		Unit	JKSG-2550	JKSG-3060	JKSG-4080	JKSG-50100
Table size		mm	500×250	600×300	800×400	1000x500
Max. table travel (L x W)		mm	520×260	650×310	830×410	1030x510
Max. distance from table to spindle		mm	360	435	460	500
Table slide-way			Double V-type Rail	Double V-type Rail	Double V-type Rail	Double V-type Rail
Cross feed on Hand wheel	per revolution	mm	2.5	2.5	2.5	2.5
	per graduation	mm	0.02	0.02	0.02	0.02
Vertical feed on hand wheel	per revolution	mm	1.25	2.0	2.0	2.0
	per graduation	mm	0.01	0.01	0.01	0.01
Wheel speed		RPM	2850	1450	1450	1450
Wheel size		mm	200x31.75x20	300x30x127	300x30x127	350x30x127
Power of Spindle motor		watt	1500	2200	4000	5000
Hydraulic station motor		watt	1500	2200	2200	3000
Working Pressure		mpa	3	4	4	6.3
Max Oil Flow		L/min	18	20	20	22
Oil Tank Capacity		Ltr	60	80	100	120
Coolant pump		watt	100	100	100	100

ALL GEARED LATHE

Salient Features

- IS.20/25 graded casting
- Rigid and box section type 250 mm wide bed provides maximum torsional stiffness.
- Rigid and accurate, alloy steel hardened and ground main spindle mounted on precision taper roller bearings & ball bearings.
- Forced lubrication in universal feed gear box Apron with oil bath.
- Thread and feed mechanism interlocked (Only one can be engaged a time).
- Camlock spindle nose (DI-4 type)
- Overload Protection through suitable relays and contactors.
- Switch shaft lever fix at carriage to Reverse/forward & stopped main spindle.



Standard Accessories

- Three Jaw Chuck
- Four Jaw Chuck
- Face Plates
- Steady Rest
- Follow Rest
- Foot Brake
- Coolant System
- Machine Lamp
- Centre and Sleeve
- Splash Guard
- Induction Hardened Bed
- Oil Gun
- Thread Chasing Dial
- Operational Manual,
- Wrenches

Technical Specification	Unit	JK-6250B/1000	JK-6250B/1500
Center Height	mm	210	210
Distance Between Centres	mm	1000	1500
Swing Over Bed	mm	420	420
Swing Over Cross Slide	mm	250	250
Turning in The Bed Gap	mm	590	590
Length of Bed Gap	mm	260	260
Width of Bed	mm	250	250
Spindle Speed	RPM	45-1800	45-1800
Number of Steps		16 Stage	16 Stage
Spindle Taper		MT 6	MT 6
Spindle Seat		Camlock ASA D 1-6"	Camlock ASA D 1-6"
Spindle bore	mm	52	52
Travel Top Slide	mm	140	140
Travel Cross Slide	mm	230	230
Total Connected Load	Kw	2.2	2.2
Machine Weight	Kg	1050	1350

RADIAL DRILL MACHINE

Salient Features

- Mechanical transmission
- Mechanical clamping
- Mechanical speed changing
- Motorized arm rising - falling
- Automatic feed
- Spindle double column and whole arm moves on this bearing at column and hence very smooth movement
- Integrating the technology for casting parts is excellent adopting casting equipment Spindle parts are made by special high quality steel heat treatment to be made by first class equipment



Standard Accessories

- Tool box
- Machine Lamp
- Box Table
- Coolant System

Technical Specification	Unit	JK-3032	JK-3040	JK-30506
Max. Drilling Capacity	mm	32	40	50
Diameter of Column	mm	180	230	280
Spindle to Work Table	mm	260 - 740	260 - 1150	650 - 1330
Spindle to Column Distance	mm	240 - 700	360 - 1200	350 - 1450
Travel of Spindle	mm	160	180	310
Type of Spindle Bore	mt	MT-4	MT-4	MT-4
Speed Range of Spindle	rpm	108 - 1000	34 - 1220	8 - 1000
Speed Classes fo Spindle	no.	6	12	6
Feed Range of Spindle	mm	0.06 - 0.25	0.06 - 0.25	0.10 - 0.56
Feed Classes of Spindle	no.	6	6	6
Hydraulic Clamping of Spindle & Column		Mechanical	Mechanical	Hydraulic
Arm Rotation Angle	Deg.	+/- 180	+/- 180	+/- 180
Power of Main Motor	Kw	2.2	2.2	4
Arm Lifting Motor Power	Kw	1.1	1.1	1.5
Cooling Motor Power	W	40	40	40
Machine Dimension	Mtr	1.4x0.70x1.9	1.7x0.8x2.0	2.5x1.0x2.6
Machine Dimension	Kg	1425	2100	4300

Salient fetures

- 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	25	28	30	32	36	32	36	36	42	36	42	45	50	50	55
Injection Pressure	kg/cm²	1627	1260	1446	1107	1659	1311	1659	1311	1722	1265	1722	1265	1572	1275	1855	1533
Theoretical Shot Volume	cm³	40	52	68	88	96	122	96	122	183	249	183	249	286	352	431	522
Max. Shot Weight	g/oz	36/1.30	46/1.60	61/2.10	79/2.70	86/3.00	109/3.80	86/3.00	109/3.80	164/5.70	224/7.80	164/5.70	224/7.80	25/9.00	316/11	387/13.5	470/16.4
Injection Rate	cm³/sec	36	46	50	65	57	73	57	73	91	124	91	124	150	185	159	193
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/cm²	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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