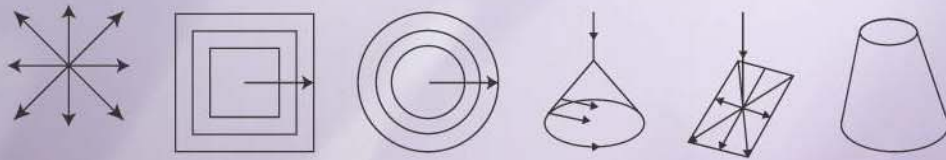




CE
ISO-9001

PRECISION 3-D CNC EDM SERIES



◆ The Features of CNC-Series EDM:

1. The Highly Rigid, Fine-Grained Cast iron Machine Base, Column, Table, And MEEHANITE Cast iron Components, Provide for Stability & Long Service life.
2. Three Axes Equipped P-Class Linear Guides (Made in Japan, Germany Or Switzerland) on Slideways. (CNC-430,460,580,650,2010) And Linear Scales Feed Back DC Servo (or AC Servo) System for Precise Orbital Positioning.
3. X,Y,Z Axes Adopt Precision Class Ballscrews And Double Nuts on Wide Saddle, Support The Table (or Over-Arm) Movement for Easy & Accuracy Positioning.
4. The PC Based Controller adapted Dialog Program Editor And Color 15" LCD-TFT. Simple & Clear touch Panel. All Digital EDM Parameter (S-Code) for Easy to Understand & Operation.
5. Automatic Positioning, Orbiting Motion & Side Sparking Function. And Automatic Edge, Center Point & Deepest Point Finding, Reference Point Searching & Multi-Coordinate Memory Function.
6. New CNC Controller Equipped Various Motion Mode for Setting (E-Code) As : Circle, Square, Sector, Taper, Inner & Outer Sphere. Radiation, 45 Degree, And The 3-Axes Linear, 2-Axes Arc, 3-Axes Spatial And 4-Axes Contouring (Optional C-Axis.) Off-Set Movement.
7. Auto Editing Function : Just input that E-Code (Motion mode) & P-Code (Programming Mode) & EDM Depth, Other Machining Conditions Will be Auto Preset from The Save Data Bank. Then Machine Automatically Operate from Rough to Fine Finish Circle.
8. New Fuzzy Logic for Arcing Control, And Fuzzy Servo Voltage Control. When the Discharging is Unsteady, EDM Parameters Will be Adjusted By The Controller, The Electrode Will be Jump Back & Up And Pulse-Off When Arcing.
9. New CIS Color, With New Metal Shield Cover on Machine Which Correspond With CE Safety Standard 89/392EEC & 93/68/EEC.
10. Automatic Electrode Changer-ATC & The Extra C-Axis Option Available.



◆ 430 Linear guiders



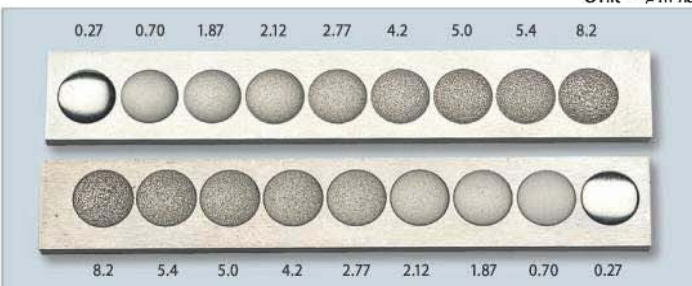
◆ 460,580,650,2010 Linear guiders



◆ The four sets of precise linear bearing in the servo spindle of Z-axis

Stands for quality by EDM

Unit : $\mu\text{m Ra}$



◆ The Test report from MITUTOYO SURETEST.

◆ Standard Accessories:

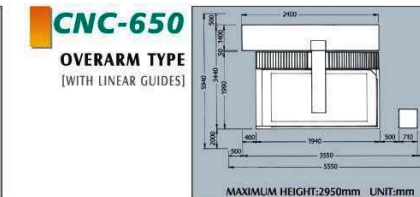
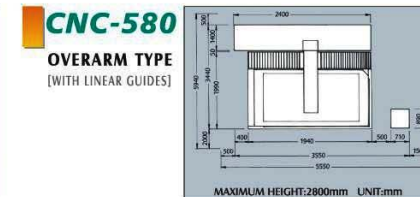
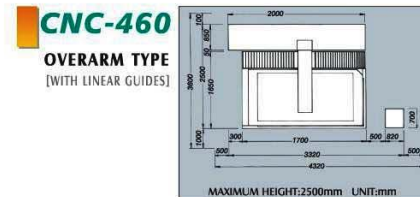
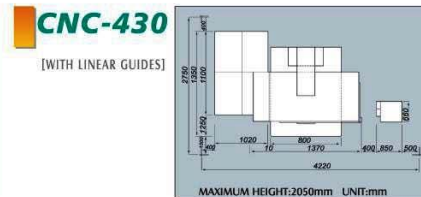
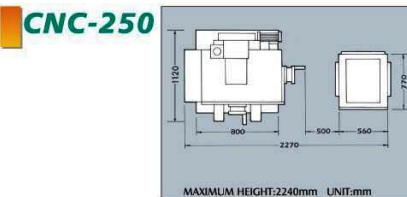
1. Industrial Pc & 15" LCD-TFT & 3-Axes Linear Scales.
2. 3 Axes DC, Or AC Servo Motors & Ballscrews.
3. 1Pc Electrode Holder.
4. 1 Pc Working Lamp.
5. 1 Set Tools With Tool Box & Clamplng Kits.
6. 1 Set Cartridge Paper Filters.
7. Machine Level Mounts.
8. Auto Fired Detect System & Fire Extinguisher.
9. Remote Controller.
10. Operation Manual & Technical Data.

◆ Optional Accessories:

1. System 3R, Tool Holders.
2. ATC/Automatic Electrode Changers. Erowa Or System 3R.
3. Extra C-Axis.
4. Chiller Unit From Habor.
5. Hydraulic Power For Up/Down Worktank Front Door.



◆ CNC POWER SUPPLY UNIT



MACHINE UNIT

SERIES NO.	CNC-250	CNC-430	CNC-460	CNC-580	CNC-650	CNC-2010	CNC-3010
Work tank(WxDxH)inner size	750x500x340 (29.5x19.7x13.4)	1,090x600x370 (42.9x23.6 x14.6)	1,400x800x500 (55.1x31.5x19.7)	1,700x1,050x700 (66.9x41.3x27.6)	2,150x1,150x700 (84.7x45.3x27.6)	2,900x1,500x700 (114.2x59.1x27.6)	4,000x1,600x800(157.5x63x31.5)
Work table size (XxY)	600x300 (23.6x11.8)	650x350 (25.6x13.8)	900x600 (35.4x23.6)	1,100x700 (43.3x27.6)	1,400x900 (55.1x35.4)	2,240x1,050(88.2x41.3)	3,100x1,050(122x41.3)
Work table travel (XxY)	300x200 (11.8x7.9)	400x300 (15.7x11.8)	600x500 (23.6x19.7)	1,000x600 (39.4x23.6)	1,200x700 (47.3x27.6)	2,000x1,000(78.7x39.4)	3,000x1,000 (118x39.4)
Work head travel (W-axis)	200 (7.9)	270 (10.6)	—	—	—	—	—
Ram servo travel (Z-axis)	180 (7.1)	200 (7.9)	300 (11.8)	450 (17.7)	450 (17.7)	550 (21.7)	550 (21.7)
Minimum/Max. distant between The table surface and electrode plate.	0-380 (0-14.9)	40-510(1.6-20.0)-STANDARD 270-570(10.6-22.4)-OPTIONAL	450-750 (17.7-29.5)	520-970 (20.5-38.2)	560-1,100 (22.1-43.3)	600-1,150 (23.6-45.3)	600-1,150(23.6x45.3)
Max.electrode weight	50 (110)	120 (264)	200 (440)	400 (880)	400 (880)	500 (1,100)	500 (1,100)
Max. workpiece weight	300 (660)	400 (880)	1,800 (3,960)	3,000 (6,600)	4,000 (8,800)	9,000 (19,800)	12,000 (26,400)
External dimension (WxDxH)	1,200x1,200x2,240 (47.2x47.2x86.6)	1,210x1,400x2,040 (47.6x55.1x80.3)	1,700x2,000x2,450 (66.9x78.8x96.5)	2,500x1,900x2,880 (98.4x74.8x113.4)	2,500x2,500x3,040 (98.4x98.4x119.7)	3,000x2,400x3,150(118.14x94.5x124)	4,800x2,400x3,150(189x94.5x124)
Packing dimension(WxDxH)	1,245x1,215x2,220 (49.4x47.8x87.4)	1,515x1,320x2,230 (59.7x52x87.8)	2,170x1,760x2,560 (85.4x69.3x100.8)	2,320x2,280x3,190 (94.4x89.8x125.6)	2,340x2,300x2,500 (92.2x90.6x98.5)	DEPEND ON REQUIRED	Separated packing in container
Net weight	1,050 (2,310)	1,800 (3,960)	2,800 (6,160)	5,400 (11,880)	6,300 (13,200)	13,000 (28,600)	15,000 (33,000)

※Optional X,Y Axes travel 1,500x700mm

DIELECTRIC FLUID UNIT.

Capacity	LITERS	300	350	850	1,000	2,000	4,200	5,400
Filter paper/pump	PCS	2/1PC.	4/1PCS.	5/2PCS.	6/2PCS	6/2PCS	6/2PCS	6/2
External dimension(WxDxH)	mm/inch	BUILTIN	1,350x1,400x2,050 (51.6x55.1x80.7)	2,000x850x500 (78.8x33.5x19.7)	1,400x2,400x800(55.1x94.5x31.5)	1,840x2,760x1,000 (72.4x108.7x39.4)	1,500x3,000x470(59x118.1x18.5)	Upon required tanks
Packing(WxDxH)Dimension	mm/inch	BUILTIN	1,210x1,110x1,025 (47.6x43.7x40.4)	2,150x955x1,020 (84.6x37.6x40.2)	3,130x1,430x1,030 (123.3x56.3x40.6)	2,820x1,400x1,560 (111.1x55.2x61.5)	DEPEND ON REQUIRED	Upon required tanks
Net weight	kgs/lbs	BUILTIN	120 (264)	200 (400)	300 (660)	450 (990)	500 (1,100)	Upon required tanks

POWER SUPPLY UNIT

Control Axes	X,Y,Z			
Moving Locus	CIRCLE, SQUARE, SECTOR, INNER, OUTER, SPHERE, TAPER, PADIATION, 45 HOLEENLARGE, ETC.			
Least Input Increment	mm inch	0.001 (0.00004)		
Max.Input Increment	mm inch	± 9999.999 (± 393.7)		
Coordinates System	Relative			
Display System	15" LCD-TFT			
Norminal Current	A	30	60	120
Total Power Input	KVA	3.5	6	10
Max.Material Removal Rate	mm ³ / min	360	550	700
Electrode Wear Rate	%	< 0.3		
Best Surface Roughness	Min.Ra	0.3 μm		
External Dimension (WxHxD)	mm inch	800x730x1,800 (31.5x28.8x70.9)		
Packing Dimension (WxHxD)	mm inch	950x880x2,000 (37.5x34.7x78.7)		
Net Weight	kgs(lbs)	200(440)		

※ Subject changed without notice.

FUNCTION OF POWER SUPPLY UNIT

NO	DESCRIPTION	SPECIFICATION
1	Display	15" LCD-TFT
2	Control Method	CNC Close Loop
3	Control Axes	X,Y,Z(Optional C-Axis)
4	Minimum Settling Unit	0.001mm/0.00004inch
5	Arithmetic limits	±9999.999mm
6	Positioning Command Format	Incremental, Absolute
7	Manual Feed Rate(By Remote Controller)	4 Speed
8	Inching(x1)	0.001mm/0.0004inch per push
9	Positioning Parameters Sets	E-Code
10	Machining Parameters Sections	S-Code
11	Enlarged Machining Functions	Circle, Square, Sector, Inner, Outer, Sphere, Taper, Radiation, 45° Holeenlarge, etc.
12	Orbital Movement Control	X,Y,Z(Free), X,Y(Fixed)
13	Machining Position (Max)	200 Position
14	Screen Pages	20 Pages
15	Program Date Capacity	100 Files At Least
16	Linear Scales Resolution	0.001mm/0.00004inch