

◆ The Features of CNC-Series EDM:

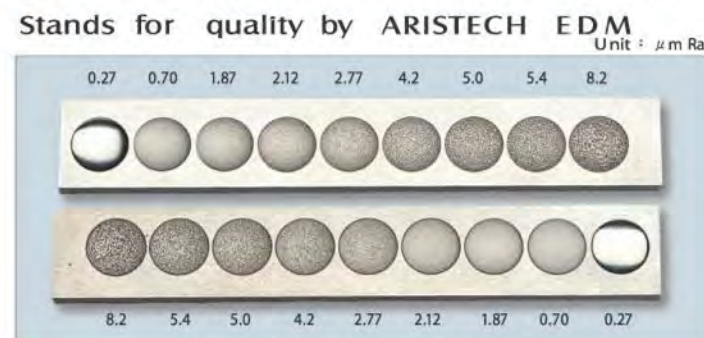
1. The Highly Rigid, Fine-Grained Cast iron Machine Base, Column, Table, And MEEHANITE Cast Iron Components, Provide for Stability & Long Service life.
2. Three Axes Equipped P-Class Linear Guides (Made in Japan, Germany Or Switzerland) on Slideways. (CNC-430,460,580,650,2010) And Linear Scales Feed 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



◆ 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 & Clamping 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



CERTIFICATION OF EXCELLENCE      ISO-9001 CERTIFICATION      CE MARK CERTIFICATION



◆ THE NEW SECOND PLANT

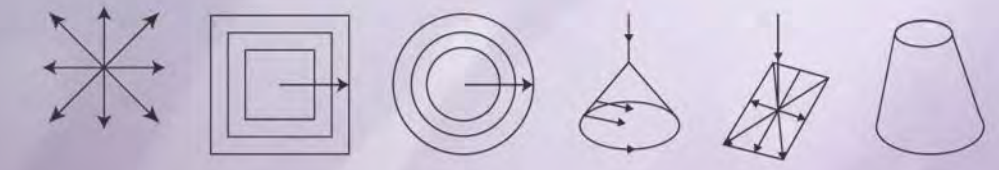


◆ THE FIRST PLANT

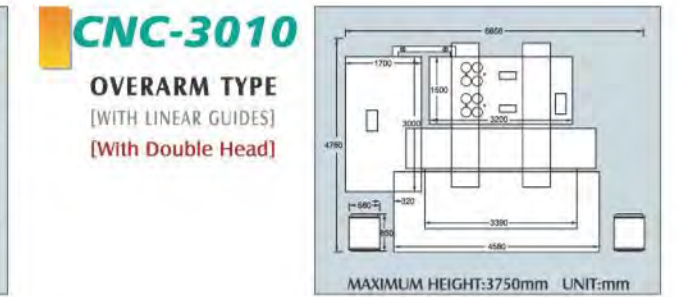
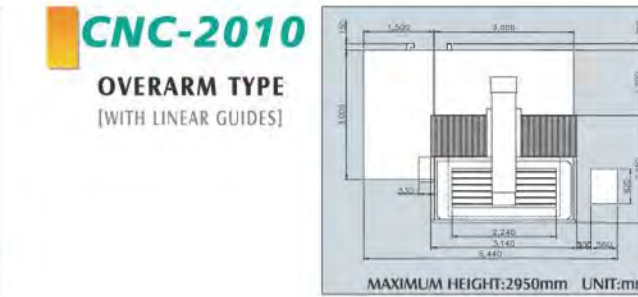
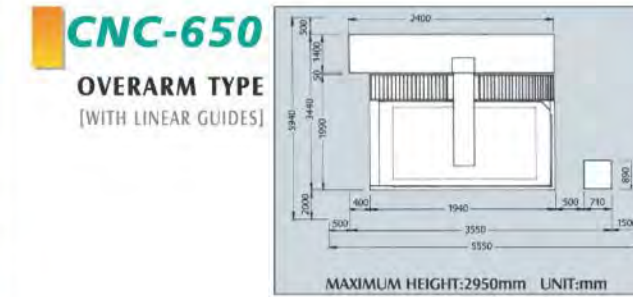
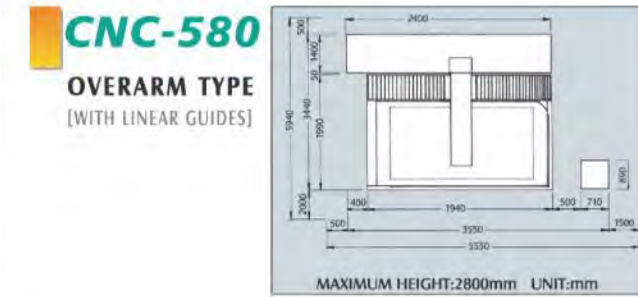
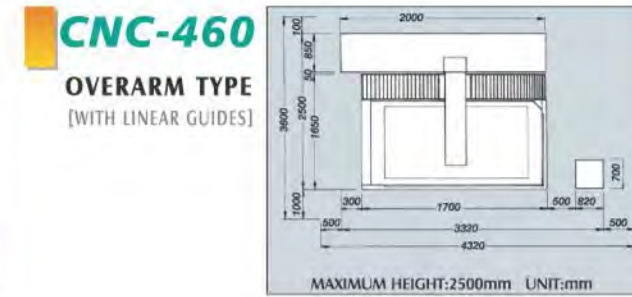
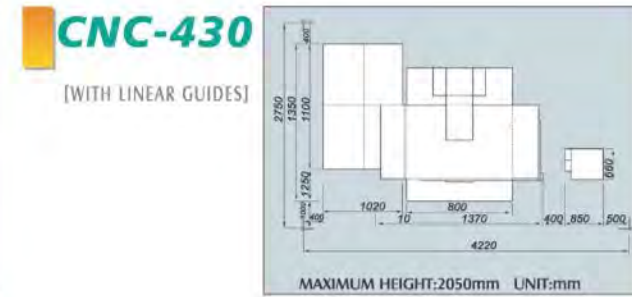
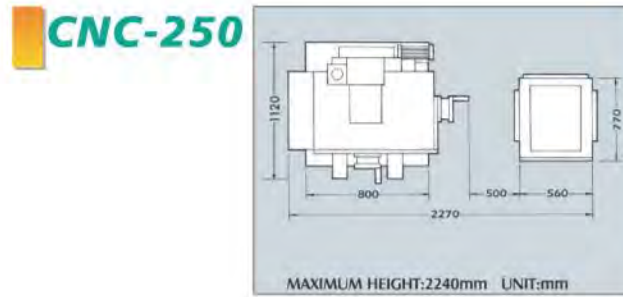
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**ARISTECH®**  
 PRECISION 3-D CNC EDM SERIES







◆ MACHINE UNIT

| SERIES NO.  |         | CNC-250                            | CNC-430  | CNC-460                             | CNC-580                             | CNC-650                             | CNC-2010                           | CNC-3010                        |
|---|---------|------------------------------------|--|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|---------------------------------|
| Work tank(WxDxH)Inner size  | mm/inch | 750x500x340 (29.5x19.7x13.4)       | 1,090x600x370 (42.9x23.6x14.6)                           | 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)   | mm/inch | 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)   | mm/inch | 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)   | mm/inch | 200 (7.9)                          | 270 (10.6)   | —                                   | —                                   | —                                   | —                                  | —                               |
| Ram servo travel (Z-axis)   | mm/inch | 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. | mm/inch | 0-380 (0-14.9)                     | 40-510(1.6-20.0)-STANDARD<br>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  | kgs/lbs | 50 (110)                           | 120 (264)  | 200 (440)                           | 400 (880)                           | 400 (880)                           | 500 (1,100)                        | 500 (1,100)                     |
| Max. workpiece weight   | kg/lbs  | 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)  | mm/inch | 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)  | mm/inch | 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  | kgs/lbs | 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, RADIATION, 45 HOOLENARGE, ETC. |                                   |     |     |
| Least Input Increment      | mm<br>inch  | 0.001<br>(0.00004)                |     |     |
| Max.Input Increment        | mm<br>inch  | ± 9999.999<br>( ± 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 <sup>3</sup> /min  | 360                               | 550 | 700 |
| Electrode Wear Rate        | %   | < 0.3                             |     |     |
| Best Surface Roughness     | Min.Ra  | 0.3 μm                            |     |     |
| External Dimension (WxHxD) | mm<br>inch  | 800x730x1,800<br>(31.5x28.8x70.9) |     |     |
| Packing Dimension (WxHxD)  | mm<br>inch  | 950x880x2,000<br>(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 Setting 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/0.00004inch 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   |