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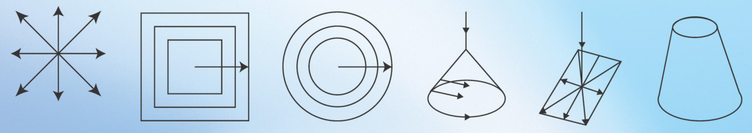
ARISTECH®

PRECISION 3-D CNC EDM SERIES
WITH DOUBLE WORK HEAD & GENERATORS.



MODEL : CNC-3010, CNC-4010

ARISTECH® PRECISION 3-D CNC E.D.M.

◆THE FEATURES OF CNC-SERIES EDM:

1.Three Axes Equipped P-Class Linear Guides on Slideways.
And Linear Scales Feed Back AC Servo System for Precise Orbital Positioning.
2.X,Y,Z Axes Adopt Precision Class BallScrews And Double Nuts on Wide Saddle, Support The Table Movement for Easy & Accuracy Positioning.
3.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.
4.Automatic Positioning, Orbiting Motion & Side Sparking Function. And Automatic Edge, Center Point & Deepest Point Finding; Reference Point Searching & Multi-Coordinate Memory Function.
5.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.
6.Auto Editing Function : Just Input The E-Code (Motion Mode) & P-Code (Programing 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.
7.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.
8.Automatic Electrode Changer- ATC & C-Axis Option Available.

◆ ARISTECH CNC DIE-SINKING EDM.

SPECIFICATIONS / Model No.		CNC-3010 With Double Head	CNC-4010 With Double Head
Work Tank (L x W x H)Inner size	mm	4,000 x 1,600 x 800	5,000 x 1,600 x 800
Work Table	mm	3,100 x 1,050	4,200 x 1,050
Over arm Travel (X x Y) (When other one head Stay at Edge)	mm	3,000 x 1,000 Each Head Maximum 2,000mm Minimum 1,000mm for The Center of Two head	4,000 x 1,000 Each Head Maximum 2,000mm Minimum 1,100mm for The Center of Two head.
Z-axis travel (Z1)	mm	550	550
Electrode stroke (Z1) Maxi to Minimum Distant	mm	600-1,150	700 -1,250
Max. electrode weight	kgs	500	500
Max. work piece weight	kgs	12,000	20,000
External dimensions (L x W x H)	mm	4,800 x 2,400 x 3,150	5,800 x 3,800 x 3,600
Packing dimensions (L x W x H)	mm	Spearated packing in container	Separated packing in container
Net weight	kgs	15,000	25,000
Capacity / Filtering Tank	ℓ	5,400 liters	7,400 liters
Filter Paper / Pump motor	piece	6/2	6/2
Tank Dimensions (L x W x H)	mm	3,000 x 1,700 x 670 x 1 Piece 3,200 x 1,500 x 670 x 1 Piece	3,200 x 1,900 x 670 x 1 Piece. 3,400 x 1,700 x 670 x 1 Piece.
Tank Packing Dimensions (L x W x H)	mm	Upon required tanks	Upon required tanks
Tank Net weight (Empty)	kgs	Upon required tanks	Upon required tanks

PLEASE NOTED : SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

◆ FUNCITION 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
5	Arithmetic limits	±9999.999mm
6	Positioning Command Format	Incremental. Absolute
7	Manual Feed Rate(By Romote Controller)	4 Speed
8	Inching(x1)	0.001mm per push
9	Positioning Parameters Sets	E-Code
10	Machining Parameters Sections	S-Code
11	Enlarged Machining Functions	Circle, Square, Sector, Inner, Outher, 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

◆ 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	0.001	
Max.Input Increment	mm	±9999.999	
Coordinates System	Relative		
Display System	15" LCD-TFT		
Norminal Current	A	60	120
Total Power Input	KVA	6	10
Max.Material Removal Rate	mm^3/min	550	700
Electrode Wear Rate	%	<0.3	
Best Surface Roughness	Min.Ra	0.3 μm	
External Dimension(W×H×D)	mm	800x730x1,800	
Packing Dimension(W×H×D)	mm	950x7880x2,000	
Net Weiget	kgs	200	

※ Subject changed without notice.

◆ Standard Accessories:

1. INDUSTRIAL PC & 15" LCD-TFT & 3-AXES LINEAR SCALES.
2. 3 AXES AC SERVO MOTORS & BALLSCREWS.
3. 1PC ELECTRODE HOLDER.
4. 1 PC WORKING LAMP.
5. 1 SET TOOLS WITH TOOL BOX & CLAMPLING 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, OR EROWA 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.

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