



CNC WIRE CUT E.D.M. MOLYBDENUM WIRES



◆ FEATURES

- A** The First Set FAST Molybdenum Wire Cut EDM Made in TAIWAN. It is Suitable Super-Hard Alloy, Simple, Complicated Shape Mold & Precision Die. Especial for Economize the Power & Materials.
- B** X,Y Axes adopt Precision Class Ball Screw & Linear Guides. And Linear Scales (Optional) Feed Back Stepping Motors (or AC Servo Motors.)System for The Table movement & Accuracy positioning.
- C** Equipped Automatic Wire Tighten Roller Device for Good Performance When Wire cutting. And Multiple Flushing Nozzlers for Good Dielectric Fluid Circulation.
- D** The Highly Rigid, Fine-Grained Cast Iron Machine base. Column, Table, And Meehanite Cast Iron Components Provide the Stability & Long Service Life.
- E** Using Industrial PC. Programming & Edit. The ON-LINE Edit, NC Code Edit, 3B Code Edit, (CAM Graphic Transfer.) Easy to Understand & Operation.
- F** The “AC Motor” Type With AC Servo Motors and Gap Interpolation Function for Whole travel in X,Y Axes. The Remote Controller with Three Different Jog Speed for Position of Mold Adjustment, Wire Alignment, Refer point, Start point Searching, Hold point Return. With 99 Coordinate Number Can be Selection, More Functions & Convenient for Operation.
- G** New Controller & Constant Speed Fine Finish Control System in The “AC Motor” Type, Equipped Cutting Data Bank for Various Material Cutting, Such as : Steel, Stainless Steel, Harden Alloy, Copper, Aluminum . Easy to Understand & Operation.
With The Wire Cutting Speed Monitor System, Can be Auto Regulating The Power feed speed & Currents, And Stop Heavy Power & Machining Automatically When Wire Interruption, Saving Times for Irregular Mold Cutting.



SIMPLE & ACCURACY.
STANDARD MAXIMUM HIGH OF WORK-PIECE. 400mm.
OPTIONAL : 600mm MAXIMUM.

◆ CNC FUNCTION

1. Automatic positioning
2. Program editing
 - (a) On-line edit (simple CAD)
 - (b) N.C. code edit (G.M code)
 - (c) 3B code edit
 - (d) DXF edit (CAM, graphic transfer file)
3. Forward point or reverse orbital function
4. Automatic or block stop machining
5. Mirror image function
6. Coordinate rotation function
7. Dry run function
8. Battery backup for memory
9. (MDI) manual data input
10. Start point or hold point return
11. Short-circuit interrupt protection & Auto. stop
12. Edming gap compensation
13. Wire diameter compensation
14. Cutting path compensation
15. Cutting path display

◆ CNC CONTROL UNIT

Circuit system	Power MOS Transistor
Average output current	5A
Voltage select	Automatic Switching.
IP select	1-10 steps
Off time select	Automatic Switching.
Data input	USB, Internet.
Positioning Display	15" LCD TFT
Cutting Data Display	5" LCD TFT
Graphic Function	2D/3D Display
Control system	Open Loop/Stepping System Close loop / AC servo system
Control axis.	X,Y,U,V. (4 axes)
Minimum moving unit.	0.001mm
Minimum Setting unit.	0.001mm
Max. command value	± 999.999mm
Interpolation	Linear / Circular
Command system	Abs. / Inc.
Total AC power input	(ϕ 110V or ϕ 220V) 3.0/4.0 KVA



(2) EFFICIENT FAST WIRE CUTTING
THE WIRE BOBBIN DRIVING SYSTEM



(3) ACCURATE POSITIONING
POSITIONING JIG AND WORK TABLE WITH LINEAR
GUIDES ON SLIDWAYS

DW-35AC./DW-45AC.



◆ MACHINE UNIT

SPECIFICATIONS	SERIES NO	DW-35,DW-35AC	DW-45,DW-45AC
		Work-Tank size (WxDxH)	mm
Work table size (XxY)	mm	690x430	750x480
X x Y axes travel	mm	450x350	500x400
Z axis travel (by AC Motor)	mm	400	400
U x V axes travel (under 50mmH.)	mm	30x30	30x30
Max. work-piece thickness	mm	400	400
Max. work-piece size (WxDxH)	mm	400x350x400	500x400x400
Max. work-piece weight	kgs	250	400
The wire bobbin travel	mm	180	230
Dia. of molybdenum wire	mm	φ0.18	φ0.18
Maximum taper Angle	Degree	6 degree Under 50mm High	6 degree Under 50mm High
External dimensions (WxDxH)	mm	1,770x1,370x1,960	1,950x1,470x2,000
Packing dimensions (WxDxH)	mm	1,820x1,610x2,185	2,000x1,710x2,245
Net weight	kgs	1,700	1,850

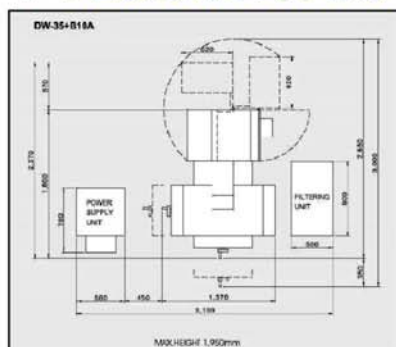
◆ DIELECTRIC FLUID UNIT

Capacity of dielectric fluid	ℓ	120	120
Dielectric fluid tank size (WxDxH)	mm	900x500x280	900x500x280

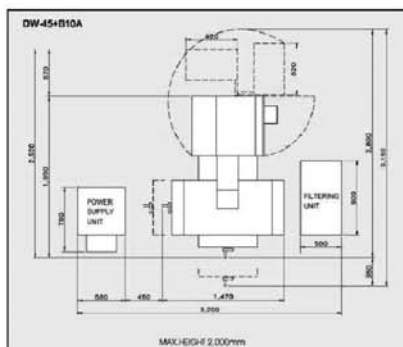
◆ POWER SUPPLY UNIT

Machining Average Current	A	5	5
Cutting speed	mm ² /min	100~200	100~200
Cutting accuracy	mm	±0.015	±0.015
Best finish roughness	μ m RA	1.0	1.0
Max. power consumption	KVA	3.0	3.0
External dimensions (WxDxH)	mm	780x580x1,700	1,020x710x1,800
Packing dimensions (WxDxH)	mm	750x750x2,000	1,190x880x2,100
Net weight	kgs	200	200

◆ FLOOR LAYOUT



DW-35



DW-45

◆ STANDARD ACCESSORIES

1. Work lamp. 1 pc
2. Clampers & kits. 1 set
3. Positioning jig set. 1 set
4. Tools & toolbox. 1 set
5. Electrode molybdenum 1 roll wires (φ0.18mm)2KM.
6. Dielectric liquid. 20ℓ
7. Operation manual & data. 1 set
8. 2 axes digital readout & linear scales.
9. U.V Axes ± 3° taper device. (6° under 50mm height)



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