



# CNC WIRE CUT E.D.M. MOLYBDENUM WIRES



## ◆ FEATURES

- A** THE FIRST SET FAST WIRE CUTTING EDM MADE IN TAIWAN. IT IS SUITABLE SUPER-HARD ALLOY, SAMPLE, COMPLICATED SHAPE MOLD & PRECISION DIE. ESPECIAL FOR ECONOMIZE THE POWER & MATERIALS.
- B** X,Y AXES ADOPT PERCISION CLASS BALLSCREW & 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 FOR 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 & OPERATE.



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

## DW-35





## ◆ 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 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, RS-232C, Internet.
Positioning Display	15" LCD TFT
Cutting Data Display	5" LCD TFT
Graphic Function	2D/3D Display
Control system	Open Loop/Stepping 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	( $\phi$ 110V or $\phi$ 220V ) 3KVA



2) EFFICIENT FAST WIRE CUTTING  
THE WIRE BOBBIN DRIVING SYSTEM



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

## DW-45



## ◆ MACHINE UNIT

SPECIFICATIONS		SERIES NO	DW-35	DW-45
Work-Tank size (WxDxH)	mm		930x530x550	1,130x690x550
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		φ 0.18	φ 0.18
Maximum taper Angle	Degree		6 degree Under 50mm High	6 degree Under 50mm High
Packing dimensions (WxDxH)	mm		1,685x1,155x2,050	1,920x1,420x2,000
Net weight	kgs		1,650	1,850

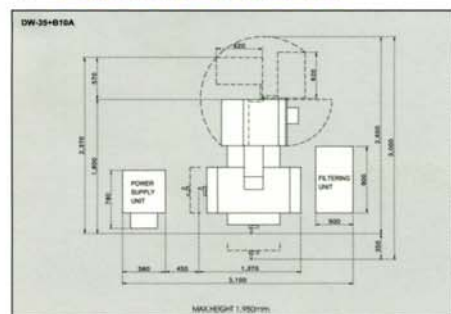
## ◆ DIELECTRIC FLUID UNIT

Capacity of dielectric fluid	ℓ	100	100
Dielectric fluid tank size (WxDxH)	mm	1000x290x340	1000x290x340

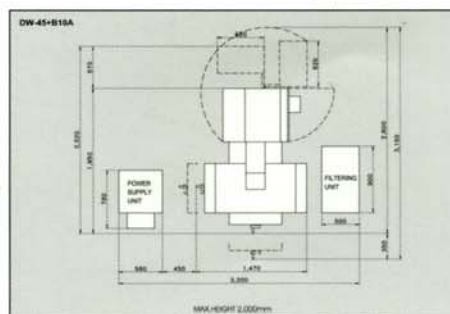
## ◆ POWER SUPPLY UNIT

Machining Average Current	A	5	5
Cutting speed	mm <sup>2</sup> /min	100~180	100~180
Cutting accuracy	mm	± 0.015	± 0.015
Best finish roughness	μm RA	1.0	1.0
Max. power consumption	KVA	3.0	3.0
External dimensions (WxDxH)	mm	660x610x1,700	660x610x1,700
Packing dimensions (WxDxH)	mm	775x730x1,940	775x730x1,940
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 wires (φ 0.18mm) 2KM. 1 roll
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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