

### ◆ MACHINE UNIT

SPECIFICATIONS		SERIES NO	<b>DW-35,DW-35AC</b>	<b>DW-45,DW-45AC</b>
Work-Tank size (WxDxH)	mm		960×580	1,130×690×550
Work table size (XxY)	mm		690×430	750×480
X x Y axes travel	mm		450×350	550×450
Z axis travel (by AC Motor)	mm		400 (Optional heightening)	400 (Optional heightening)
U x V axes travel (under 50mmH.)	mm		30×30	30×30
Max. work-piece thickness	mm		400	400
Max. work-piece size (WxDxH)	mm		450×350×400	550×450×400
Max. work-piece weight	kgs		350	400
The wire bobbin travel	mm		180	230
Dia. of molybdenum wire	mm		ø0.18-0.2(Standard ø0.18)	ø0.18-0.2(Standard ø0.18)
Maximum taper Angle	Degree		6 degree(±3°) under 50mm High	6 degree(±3°) under 50mm High
External dimensions (WxDxH)	mm		1,770×1,370×1,960	1,950×1,470×2,000
Packing dimensions (WxDxH)	mm		1,820×1,610×2,185	2,000×1,710×2,245
Net weight	kgs		1,700	1,850

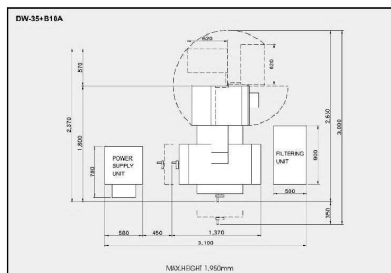
### ◆ DIELECTRIC FLUID UNIT

Capacity of dielectric fluid	ℓ		120	120
Dielectric fluid tank size (WxDxH)	mm		900×500×280	900×500×280

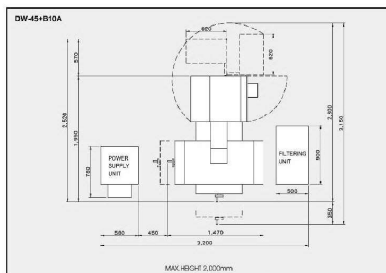
### ◆ POWER SUPPLY UNIT

Machining Average Current	A		5	5
Cutting speed	mm <sup>2</sup> /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		900×610×1700	900×610×1700
Packing dimensions (WxDxH)	mm		900×780×2000	900×780×2000
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 (φ 0.18mm)2KM.
6. Dielectric liquid. 20 ℓ
7. Operation manual & data. 1 set
8. 2 axes digital readout & linear scales (for model DW-35 & DW-45).
9. U.V Axes ± 3° taper device. (6° under 50mm height)

## LIEN SHENG MECHANICAL & ELECTRICAL CO., LTD.

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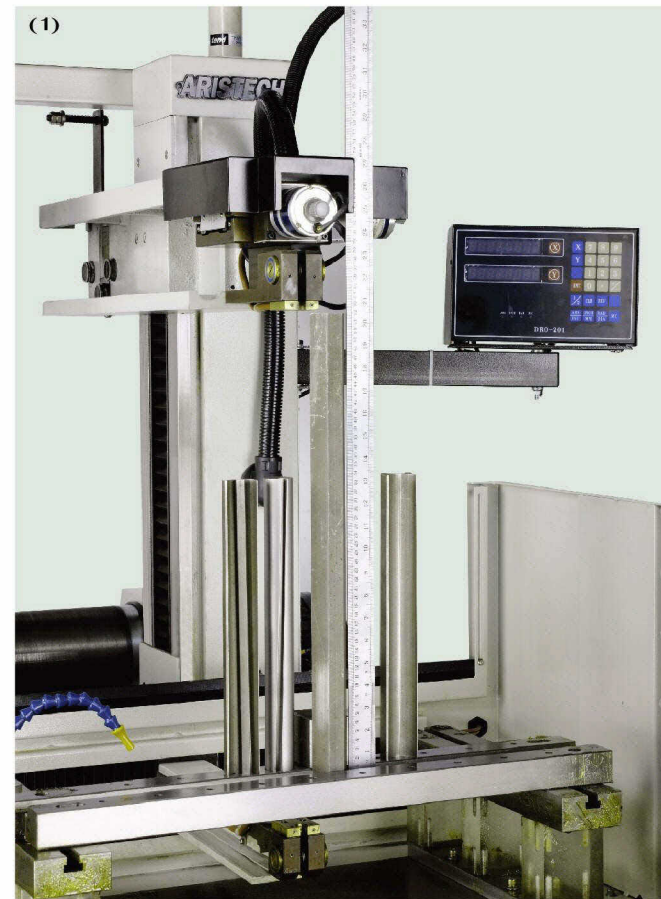
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◆ **FEATURES**

- 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**

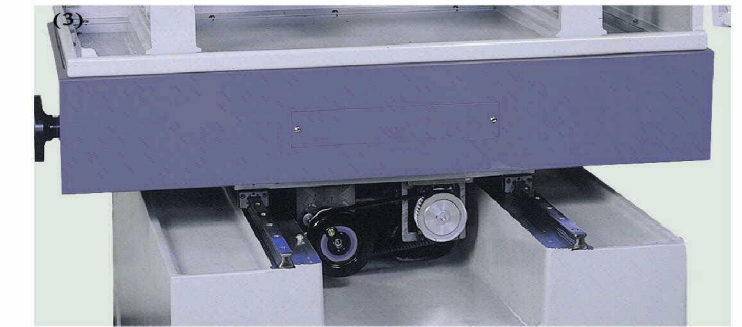
1. Automatic positioning
2. Program editing
  - (a) On-line edit (simple CAD)
  - (b) N.C. code edit (G.M code)
  - (c) 3B code edit
  - (d) DXF edit (CAM, graphic transfer file)
3. Forward or reverse orbital function
4. Automatic or block stop machining
5. Mirror image function
6. Coordinate rotation 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



**EFFICIENT FAST WIRE CUTTING**  
THE WIRE BOBBIN DRIVING STSTEM

◆ **CNC CONTROL UNIT**

Circuit system	Power MOS Transistor
Average output current	5A
Voltage select	Automatic Switching.
Off time select	Automatic Switching.
Data input	USB, LAN.
Positioning Display	15" LCD TFT
Cutting Data Display	5" LCD
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
Command system	Abs. / Inc.
Total AC power input	3.0/4.0 KVA



**ACCURATE POSITIONING**  
POSITIONING JIG AND WORK TABLE WITH LINEAR GUIDES ON SLIDWAYS

**DW-35/DW-45**



**DW-35AC /DW-45AC**

