



CE  
ISO-9001

# ARISTECH®

**CNC WIRE CUT E.D.M.  
AWT - AUTO WIRE THREADING SYSTEM**



## **New Fast AWT System**

- Fast & Reliable "AWT" System, Nearing 100% Success Rate.
- Flexible Cutting Database Supported In Controller.
- Fully Compatible With Other Brand Post Processor In CAM Software.



## ◆ CNC WIRE-CUT EDM SPECIFICATION :

MODEL		CW-30S/25A	CW-50S/25A
MACHINE BODY		5-AXES CNC + Auto Wire Threading	
Machining method		Submerged (In Stainless Steel Work Tank.)	
Max. work piece size (WxDxH)	mm	745X600X210	930x700x290
Max. work piece weight	kg	300	450
X,Y axes travel	mm	400X300	600x400
Z axis travel	mm	220	300
U,V axes travel	mm	60 x 60	100 x 100
X-Y axis feed rate	mm/min	Max. 800	
Drive system (5 axes)		AC Servo Motor	
Wire diameter (standard)	mm	Ø 0.25	
Option wire diameter	mm	Ø 0.15- Ø 0.3	
Wire feed rate (max.)	mm/sec	0-300	
Wire tension	gf	300 - 2500	
Max. taper angle	degree	± 15° / 80	± 15° / 100
Tank capacity	ℓ	300	350
Outside dimensions (WxDxH)	mm	1,700X2,060 x 2,100	1,650 x 2,060 x 2,230
Machine weight	kg	2,300	3,000

## ◆ FILTERING FLUID SUPPLY UNIT :

Tank capacity	ℓ	520	650
Filter element		Paper	
Ion exchange resin	ℓ	6	
Conductivity control		Auto	
Fluid temperature control		Auto (standard)	
Outside dimensions (WxDxH)	mm	1,410x600x1,270	1,600x750x1,500
Net weight (without water)	kg	300	400

## ◆ POWER SUPPLY UNIT :

Circuit system		Power MOS transistor	
Max. output current	Amp.	25A	
Voltage select	Volt.	16	
IP select	Steps	10	
Off time select	Steps	50	

## ◆ CNC CONTROLLER UNIT :

Data input		keyboard, RS-232C, CF Card.	
Display type		15" TFT-LCD Monitor	
Control system		32 bit CPU, closed loop software servo system	
Control axis		X,Y,U,V,Z (5 axes)	
Setting unit	mm	0.001	
Max. command value	mm	± 9999.999	
Interpolation		Linear / Circular	
Command system		Abs. / Inc.	
Machining feed control		Servo / Const. Feed	
Scaling		0.001 ~ 9999.999	
Auto 2nd cut system		Re-trace and auto changed machining data	
Machining condition memory		1000 - 9999	
Outside dimensions (WxDxH)	mm	780X720X1,900 / N.W. 300kg	
Total AC power input	KVA	Ø3 220V ± 10% / 13KVA	

## ◆ CNC CONTROLLER FUNCTIONS :

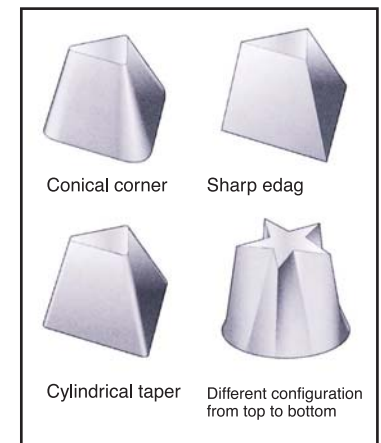
Graphic X-Y, X-Y-Z	Backlash compensation
Graphic color 16 item	NC data memory
Cutting position indicate	Dry run
Machining monitor	Single block
Graphic auto scaling	Machine lock
Zoom	Start point return
Machining time	Stop point return (Straight, Trace)
Machining speed	Retrace function
Machining length	Dwell
Stored stroke limit	Subprogram
Reference point return	Background edit
Pitch error compensation	Taper Cut
Automatic positioning (Hole, Slit, Edge)	Top-bottom independent figure machining
Non-Electrolytic AC Power Cutting.	Corner Control Aided Function.

\*Specifications subject to change without notice.

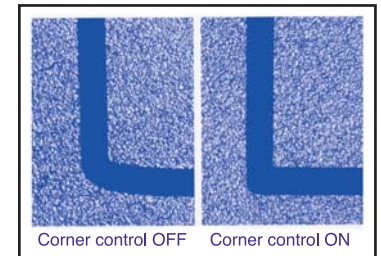
## ■ AUTOMATIC WIRE THREADING SYSTEM



## ■ MAXIMUM TAPER ANGLE: ± 15 DEGREES



## ■ CORNER CONTROL



## ◆ STANDARD ACCESSORIES :

1. Transformer For 380V, 415V, 440V, 600V.
2. Automatic vertical alignment jig.
3. Water Filtering System & Chiller Unit.
4. Wire Guide & Brass wire Dia. 0.25mm Standard.
5. Remote Controller. & Tools Box.

## ◆ OPTIONAL ACCESSORIES :

1. AVR (Auto Voltage Regulator) 15KVA.
2. WTCam V3 High Level Version software for wire cutting.
3. Linear Scales.
4. EXTRA 30KG WIRE FEEDING BOX.

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

No. 225, Jen Hwa Road, Ta-Li Dist., 41278  
Taichung City, TAIWAN, R.O.C.

TEL:886-4-2491-9588 • FAX:886-4-2491-5275.

URL:www.aristech.com.tw

E-mail:sales@aristech.com.tw