

All New A-series Wire Cut

Innovation Achievement Future

Advanced compact design

Saving space nearly 15% compared to conventional model.

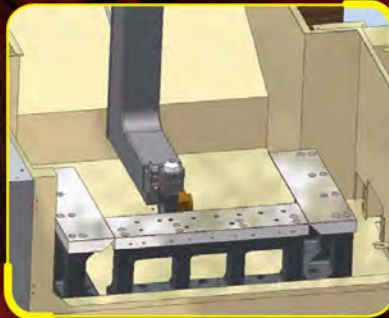
Advanced rigidity and thermal balanced structure

The machine has been designed at gantry type base frame through 3D simulate designing and FEA optimize process. With optimum structure and reinforced ribs to secure the perfectly rigidity and highly accurate machining.



LINEAR MOTOR

Beyond the limit of technology. The in house "Linear Motor Technology" developed by CHMER Group has overcome the mechanical inaccuracy associated with the back-lash that came from ball-screw drive system, the actual position is precisely monitored.



Optimum design

Unique slanted wire ejection mechanism that gets rid of the possibility of water leakage and friction comes from the lower arm that interfere Y axis movement so as to machining accuracy.



In-House controller

- ◆ All Software and Hardware are with full authorized. (Copyright Reserved by CHMER)
- ◆ Adopted Compatible 5x86 grade Processor (CPU).
- ◆ Touch Screen and Optical Mouse Support (OPT).
- ◆ External USB Card Reader and Intranet Data Exchange Support.



5th Generation AWT system

In house new generation Auto Wire Threading (AWT) features concise mechanism and is capable of threading on location (wire break point) and in water. "Wire Tension Control Technology" for highest reliability.



To comply with the trend of environment protection, the first energy saving circuit for EDM in Taiwan that applies "counter electric potential" elevates the voltage, achieves 15% power consumption reduction that cuts down on the operation cost of customer and the affection to the environment.



Specifications

Model	A422SL	
Axis Travel(X×Y×Z)	mm	400×250×200
Auxiliary Table Travel(U×V)	mm	60×60
Max. Size of Workpiece	mm	800x560x195
Max. Weight of Workpiece	kg	550
X Y Feed Rate		Max. 1500 mm/min
Axis Drive System		X,Y axis by linear Motor; U,V,Z axis by AC Servo Motor
Wire Diameter Range(Standard)		Ø.15-0.3mm (Ø0.25mm)
Max. Wire Feed Rate		300mm/sec
Wire Tension		300-2500gf
Taper Angle		±14.5°/80mm WIDE ANGLE NOZZLE
Machine Weight	Kg	2600
Working Fluid Supply Unit		
Tank Capacity		580L
Filter Element		Paper
Ion Exchange Resins		14L
Conductivity Control		Auto
Fluid Temperature Control		Auto
Power Supply Unit		
Circuit System		Power MOS Transistor
Max. Output Current		25A
IP Select		10
Off Time System		50
CNC Unit		
Data Input		Keyboard,RS-232C
Display		15-Inch Color
Control System		32bit,1-CPU,Semi-Closed Loop
Control Axis		X,Y,U,V,Z (5 Axis)
Setting Unit		0.001mm
Max. Command Value		±9999.999mm
Interpolation		Linear/Circular
Command System		ABS/INC
Machining Feed Control		Servo/Const. Feed
Scaling		0.001-9999.999
Machining EDM Condition Memory		1000-9999
Total AC Power Input		3 Phase 220 ±10%/13kva

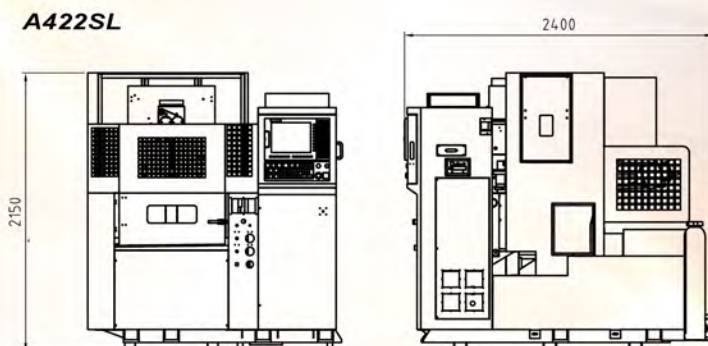
Standard Accessories

- | | |
|--------------------------------|-------|
| 1. X,Y axis Linear Motor | 1set |
| 2. X,Y axis Linear scale | 1set |
| 3. AWT | 1set |
| 4. Auto Vertical Alignment jig | 1 set |
| 5. Chiller | 1set |

Optional

- | | |
|-------------------------------|--|
| 1. Ø 0.1 mm wire unit | |
| 2. AC-μ Circuit | |
| 3. Wire Chopper | |
| 4. Bridge Rule | |
| 5. B-Axis (6th Axis Function) | |

Machine Layout



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