

Linear Motor Driven Precision Wire-Cut EDM

AG400L

Linear Motor CNC Wire EDM - Where Speed Meets Accuracy

Linear Motor Drives

Sodick's linear motor drive system features a direct-drive, vibration free mechanism which has unrivaled acceleration and positioning accuracy with no backlash. Its highly dynamic responsiveness, stability for precision machining performance do not diminish over time and will remain maintenance-free. Sodick's original "K-SMC" Motion Controller also works to maximize the efficiency of the linear motor drive system.

Super Jet AWT

The Super Jet AWT (Automatic Wire Threader) features a new annealing function along with the conventional pipe jet wire threading system, resulting in the high speed auto wire threading device. With the annealing process, the wire is heated, stretched and cut. This new function ensures higher success rates when threading through a hole on a submerged workpiece or a small diameter hole. The operator can choose a round guide or split guides depending on the machining application. Additionally, the new "narrow clearance guide" comes standard, which further improves machining performance.

Power Supply: LN Series

The ergonomically designed control panel enables even inexperienced operators to easily handle a variety of machining needs. The keyboard and remote controller design is focused on the operators point of view for improved operability. The large 15.1" TFT-LCD touch screen eliminates glare and is easy to view. The control panel is equipped with a tray so operators can store small tools and items.



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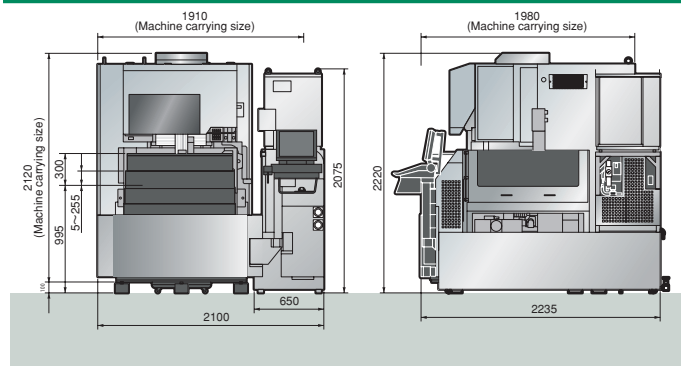
Specifications

Machine	Specifications
X-Axis Travel	15.75" (400 mm)
Y-Axis Travel	11.81" (300 mm)
Z-Axis Travel	9.84" (250 mm)
U x V Axis	4.72" x 4.72" (120 x 120 mm)
Maximum Taper Angle	±25°
Maximum Workpiece Weight	1,102 lbs (500 kg) Submerged: 771 lbs (350 kg)
Wire Diameter	φ.003"-φ.012" (φ.07-.3 mm)*
Wire Tension	3 ~ 23 N
Wire Feed Rate	Max. 16.54"/sec (420 mm/sec)
Distance From Floor to Table Top	39.17" (995 mm)
Machine External Dimensions	82.68" x 87.99" x 86.61" (2,100 x 2,235 x 2,200 mm)
Machine Installation Space	125.98" x 125.98" (3,200 x 3,200 mm)
Machine Unit Weight w/Power Unit and Dielectric Tank	8,377 lbs (3,800 kg)
Power Supply Requirement	3-Phase, 200/220V, 50/60 Hz
Total Power Consumption	13 kVa
Maximum Peak Amps	40 AMP
Air Pressure	72 psi
Air Flow	7 CFM

*Certain Conditions apply, call for details

Control: LN2W/LN2WH	
CNC	Multi-Tasking OS, Windows XP
Display	15.1" TFT-LCD (SVGA)
Number of Coordinate Systems	60
Maximum Input Command	±999999.999 / ±99999.9999 / ±9999.99999 (switchable)
Simultaneous Control Axes	Max. 4 Axes (up to 8 axes with option)
Drive Mechanism	Linear Motor
Subprogram Nesting Levels	50 Levels
Q Command Nesting Levels	7 Levels
Discharge Condition Codes	1,000 (C000 ~ C999)
Offset Settings Storage Capacity	1,000 (H000 ~ H999)
User's Memory Capacity	Editing: 100,000 blocks / Saving: 30MB
Memory Device	4 GB CF Card, 1 GB External Memory
Input Format	External Memory, Touch Panel, Keyboard, Mouse
Character Set	Alphanumeric and Symbols
Keyboard	Standard 101-Key, Function Key
Positioning Command	Incremental and Absolute
Drive Mechanism	Full Closed Loop (Linear Scales)
Editing	Editing During Machining, Multi-Editing of Two Files on One Screen
Graphics	XY, YZ, ZX, Plane, 3D, Graphics Drawing During Machining, Background Graphics Drawing, etc...

Layout



Dielectric Tank	
Capacity	158.5 gallons (600 liters)
Tank External Dimensions (W x D)	25.59" x 81.89" (650 x 2,080 mm)
Filter Type	Replaceable Paper Filter Cartridge (3)
Dielectric Fluid Type	Ion Exchange Resin (18-liter type)

Standard Features	
Linear Motor (X, Y, U and V Axes)	Ion-Exchange Unit
Advanced Corner Control	Automatic Tension Control Servo
Energy Saving Circuit	FT II (Fine Pick-Up Function)
Dielectric Cooling Unit	Anti-Electrolysis Function
Super-Jet AWT	Wire-Tip Disposal Unit
Heart NC	USB and LAN Connection Port

Please consult sales representative for more details.

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Due to ongoing research, specifications are subject to change without prior notice.

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