

Linear Motor Driven Precision Wire-Cut EDM

AG360L

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.

"Fixed Jet" FJ AWT

The Fixed Jet AWT features a reliable threading rate for both submerged and non-submerged threading. The FJ AWT has improved wire straightness due to thermal cuts and improved cutter performance is ensured by closed round guides. The AG360L comes with a tension servo function that controls and stabilizes the wire tension during cutting to ensure highly accurate performance.

LN Series Control: Power Supply

The ergonomically designed control panel enables even inexperienced operators to easily handle a variety of machining needs. The keyboard and remote controller is designed for the operator's 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.



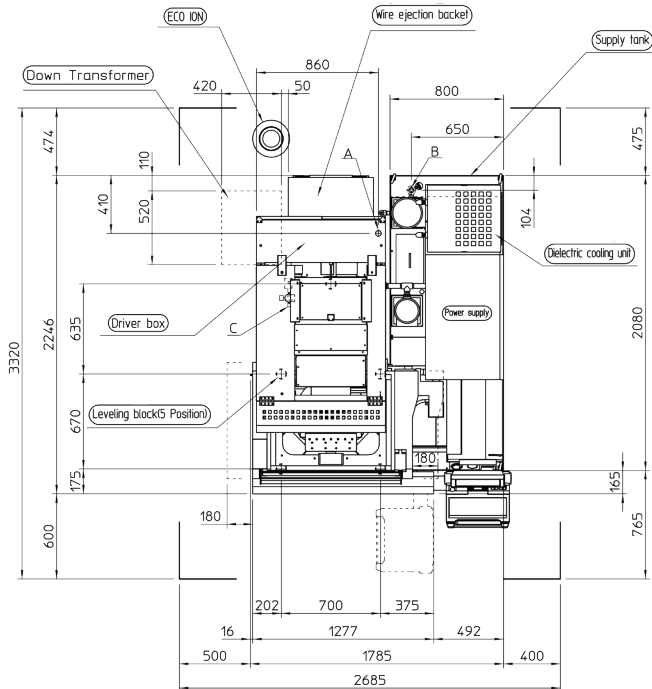
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Specifications

Machine	Specifications
X-Axis Travel	14.17" (360 mm)
Y-Axis Travel	9.84" (250 mm)
Z-Axis Travel	8.66" (220 mm)
U x V Axis	3.15" x 3.15" (80 x 80 mm)
Maximum Taper Angle	±20°
Maximum Workpiece Weight	881 lbs (400 kg)
Wire Diameter	φ.006"-φ.012" (φ.15-φ.3 mm)
Wire Tension	3 ~ 23 N
Wire Feed Rate	Max. 16.54"/sec (420 mm/sec)
Distance From Floor to Table Top	38.58" (980 mm)
Machine External Dimensions	50.28" x 88.43" x 81.18" (1,277 x 2,246 x 2,062 mm)
Machine Installation Space	105.71" x 130.71" (2,685 x 3,320 mm)
Machine Unit Weight w/Power Unit	5,952 lbs (2,700 kg)
Power Supply Requirement	3-Phase, 50/60 Hz
Total Power Consumption	13 kVa
Air Flow	.5 MPa 30 NL/min

Control: LN2W	
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
Drive Mechanism	Linear Motor (X, Y, U, V Axes)
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 Glass 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	155.9 gallons (590 liters)
Tank External Dimensions (W x D x H)	31.50" x 81.89" x 74.49" (800 x 2,080 x 1,892 mm)
Filter Type	Replaceable Paper Filter Cartridge (2)
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
FJ AWT	Wire-Tip Disposal Unit
Heart NC CAM System	USB and LAN Connection Port
Glass Scales (X, Y, U, V)	Automatic Dielectric Level Control

Please consult sales representative for more details.

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Due to ongoing research, specifications are subject to change without prior notice. The content of this catalog is current as of December 2011.

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