

Linear Motor Driven Die-Sinker EDM

AD30L

Cost-Friendly Model 3-Axis Linear Motor Driven Die-Sinker EDM

Linear Motor Drive System

Sodick's linear motor drive system is the ideal mechanism that semi-permanently sustains high speed axes-movements and instantaneous response. There is no mechanical contact within the linear motor drive system, resulting in stable machining accuracy, reliability and maintainability that can be sustained for years. Combined with the Motion Controller (K-SMC) developed by Sodick, the advantage of the linear motor drive system is multiplied, achieving supreme machining performance.

"SVC" Circuit

The "SVC" Circuit is the Sodick standard in the process of achieving *Zero electrode wear and high-quality surface finish. To create a uniform satin surface, the "SVC" enables a no-polish finish for micro and non-forms that are difficult to polish, by producing high grade surface finishes equaling shorter processes, improved quality and prolonged stability.

*Zero electrode wear is an electrode wear rate of less than .06 percent.

The New "LN" Controller and Power Supply Unit

The new "LN" controller will maximize the advantages of the linear motor drive system. "LN Assist" (standard) will enable even a beginner to operate the machine with ease. The power supply unit is designed to conserve energy.

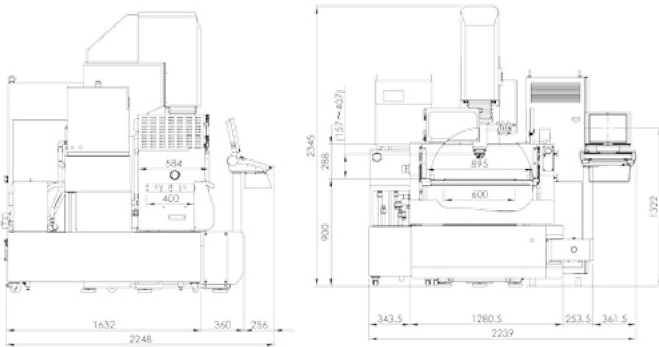


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Specifications

Machine	Specifications
Worktable Size (W x D)	23.62" x 15.74" (600 x 400 mm)
Worktank Size (W x D x H)	35.23" x 22.99" x 11.33" (895 x 584 x 288 mm)
Fluid Level (min ~ max)	3.38" ~9.29" (86 ~ 236 mm)
X-Axis Travel	12.59" (320 mm)
Y-Axis Travel	7.87" (200 mm)
Z-Axis Travel	9.84" (250 mm)
Maximum Workpiece Weight	1,212 lbs (550 kg)
Maximum Thrust	110 lbs (50 kg)
Work Tank Capacity	37.25 gallons (141 liters)
Distance From Floor to Table Top	35.43" (900 mm)
Machine External Dimensions	88.14" x 88.50" x 92.32" (2,239 x 2,248 x 2,345 mm)
Machine Installation Space	112.20" x 118.50" (2,850 x 3,010 mm)
Machine Unit Weight w/Power Unit	4,188 lbs (1,900 kg)
Power Supply Requirement	3-Phase, 200/220V, 50/60 Hz
Total Power Consumption	10 kVa
Maximum Peak Amps	60 AMP
Air Pressure	.45 MPa (.65 MPa when using auto-clamp chuck)
Air Flow	100 NL/min

Layout



Control: LN1	
Display	15.1" TFT-LCD (SVGA)
Number of Coordinate Systems	60
Minimum Increment Command	.000004"
Maximum Increment Command	99999.9999"
Jog Feed Rate	118.11"/min (3 m/min)
Axis Positioning Movement	Up to 4 Simultaneous
Axis Linear Interpolation Movement	Up to 4 Simultaneous
Axis Circular Interpolation Movement	Up to 3 Simultaneous
Plane Specifications	X-Y, X-Z, Y-Z
Subprogram Loop	9,999 times
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	CF Card, External Memory
Input Format	External Memory, Touch Panel, Keyboard
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...

Dielectric System	
Capacity	92.19 gallons (349 liters)
Filter Type	Replaceable Paper Filter (MF-2400)
Tank External Dimensions	34.31" x 64.25" x 72.48" (871.5 x 1,632 x 1,841 mm)
Tank Weight (Empty)	772 lbs (350 kg)
Dielectric Fluid Type	Oil

Accessories			
Linear Motor (X, Y, Z)	●	Glass Scale Feedback (X, Y, Z)	●
Chiller Unit	●	SVC Circuit (Fine Finish Circuit)	●
SGF2 Circuit (Zero Wear)	●	SEC 10 (C Axis)	△
Shuttle ATC	△	Fire Extinguisher	●
LAN	●	USB Memory Port	●

● Standard △ Option

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

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