

**High-Accuracy, Fine Finish CNC Sinker EDM**Rigid Linear Motor Driven

AD35L AD55L

# Cost-Effective Machi





#### LN Control Touch Screen

The "LN2" Professional control panel, is capable of high speed, precision, and efficient machining. The increased performance of the power supply is provided by a modern control theory based NC system, with a panel designed for stress-free operation through its Windows operating system.



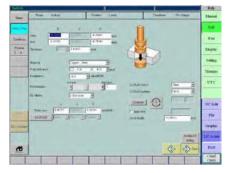


### High-Performance Machining

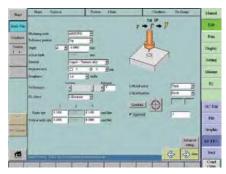
LN Professional is an easy to use graphic interface that allows for the machining of various shapes in numerous types of machining scenarios, it also comes complete with a graphite electrode search screen.



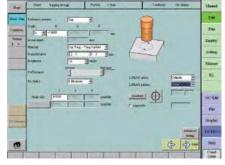
Machining Plan: In the machining plan, various conditions that match the shape can be selected. For example, if a core pin shape is selected, the machining conditions specialized in precision machining and machining operations focusing on corner accuracy will be displayed. Additionally, new machining shapes; such as, "Helical", "Tapping Through" have been added to the plan, and optimal conditions can be called up immediately.



Machined Shape: Helical



Machined Shape: Undercut



Machined Shape: Tapping Through



#### "SGF2" Nano Wear Discharge Unit

The power supply unit is equipped with the "SGF2" discharge unit. "SGF2" minimizes graphite electrode ear and maximizes cutting speed offering the highest performance level possible, for "zero-wear" machining. The "SGF2" circuit achieves rough cutting to finishing using a single graphite electrode, eliminating the use of multiple electrodes and reducing manufacturing time.



#### Complete Machining Solution

Sodick offers the AD Series as a complete package, enabling a productive machining process; the External USB and Dielectric Chiller come standard, while the C-Axis and Shuttle ATC can be optionally added to the package.



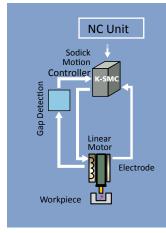
# **Core Technologies for Outstanding Performance**



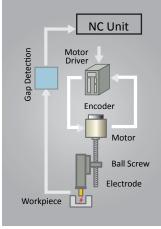
#### **In-House Developed Rigid Linear Motor Drives**

Sodick's patented rigid linear motors offer non-contact axis movement free from friction, wear, and backlash for unrivaled acceleration and position accuracy. The linear motors performance doe snot diminish over time and remains maintenance free thanks to the Motion Controller (K-SMC), which Sodick has perfected over the years.









Conventional Ball Screw



#### **Ceramic Work-Zone**

Sodick AD Series Sinker EDM is constructed using ceramic components for the work stand table and critical parts, all of which are built in-house to ensure high precision machining with better electrical insulation, abrasion resistance, and rigidity. Ceramics are ideal for high precision machining due to their very low thermal expansion coefficient (less than one third that of cast iron), high rigidity, and resistance to aging.

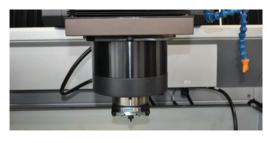






#### C-Axis (SEC-10) - Option

The SEC-10 offers 1/1,000,000 of standard resolution. The C-axis enables high precision indexing with direct-drive and continuous rotation (20 rpm), expanding the machining capabilities.





#### **Shuttle ATC - Option**

The shuttle ATC, allows you to perform operations unattended.

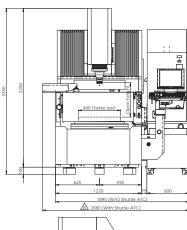
AD35L: 4 stations AD55L: 6 stations

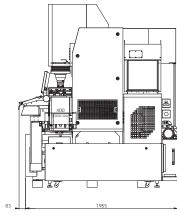


## AD35L

**Front View** 

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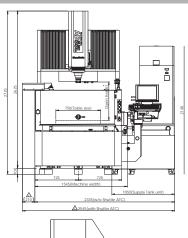


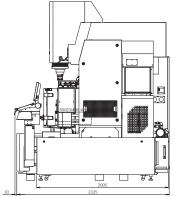
Machine			AD35L	AD55L
X/Y/Z axis travel			13.78" x 9.84" x 10.63" (350 x 250 x 270 mm)	23.62" x 15.75" x 15.75" (600 x 400 x 400 mm)
Work tank inner dimensions (W x D x H)			38.39" x 21.85" x 13.78" (975 × 555 × 350 mm)	47.24" x 31.50" x 19.69" (1,200 x 800 x 500 mm)
Work tank fluid level (min. to max.)			6.69" ~ 11.81" (170 ~ 300 mm)	6.69" ~ 17.72" (170 ~ 450 mm)
Work tank capacity			47.5 gal (180 L)	124.2 gal (470 L)
Ceramic table size (W x D)			23.62" x 15.75" (600 × 400 mm)	29.53" x 21.65" (750 x 550 mm)
Clamp Chuck	Type and Distand	ce from Table to	Chuck:	
	Erowa Combi	ER-020025	8.54" x 19.17" (217 ~ 487 mm)	9.45" x 25.20" (240 ~ 640 mm)
(Automatic)	Erowa ITS	ER-007521	8.54" x 19.17" (217 ~ 487 mm)	9.45" x 25.20" (240 ~ 640 mm)
	3R Combi	3R-460.86-2	7.87" x 18.50" (200 ~ 470 mm)	8.78" x 24.53" (223 ~ 623 mm)
	3R Macro	3R-600.86	7.87" x 18.50" (200 ~ 470 mm)	8.78" x 24.53" (223 ~ 623 mm)
(Manual) TP Spec. TPH-11 (Standard)		4.45" x 15.08" (113 ~ 383 mm)	9.45" x 25.20" (240 ~ 640 mm)	
Maximum weight of workpiece			1,212.5 lb (550 kg)	2,204.6 lb (1,000 kg)
Maximum weight of electrode			110 lb (50 kg)	110 lb (50 kg)
Distance from floor to table top			31.89" (810 mm)	35.43" (900 mm)
Machine dimensions (W x D x H)			81.89" x 76.97" x 92.52" (2,080 x 1,955 x 2,350 mm)	99.02" x 91.54" x 107.09" (2,515 x 2,325 x 2,720 mm)
Machine installation space (W x D)			110.24" x 114.17" (2,800 x 2,900 mm)	129.92" x 133.86" (3,300 x 3,400 mm)
Machine weight			7,054.8 lb (3,200 kg)	10,141.3 lb (4,600 kg)
Air pressure			0.65 MPa	0.65 MPa
Air flow			100 NL/min	100 NL/min
Total power input			3-phases 50/60Hz, 10 KVA	3-phases 50/60Hz, 10 KVA

### AD55L

**Front View** 

Side View





AD35L	AD55L
31.50" x 67.13" x 83.66"	41.34" x 78.94" x 84.25"
(800 × 1,705 × 2,125 mm)	(1,050 x 2,005 x 2,140 mm)
1,851.8 lb (840 kg)	2,645.5 lb (1,200 kg)
(including power supply)	(including power supply)
105.7 gal (400 L)	211.3 gal (800 L)
2 replaceable paper filters	2 replaceable paper filters
(MF-2400)	(MF-2400)
	31.50" x 67.13" x 83.66" (800 x 1,705 x 2,125 mm) 1,851.8 lb (840 kg) (including power supply) 105.7 gal (400 L) 2 replaceable paper filters

Standard Features				
10-Year Positioning Accuracy Guarantee	15" TFT touch screen display			
LN Professional	Dielectric cooling unit			
Linear motor drives	Automatic voltage regulator			
Linear scales (X, Y, Z axes)	Paper filters (2)			
Remote controller	Fire extinguisher			
USB port	Mouse			
SGF2 Circuit	LAN connection			



create your future