

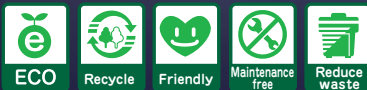
Create your future **Sodick**



Linear Motor Drive Die-Sinker EDM

AG series

**AG40LP AG40L AG60L
AG80L AG100L**

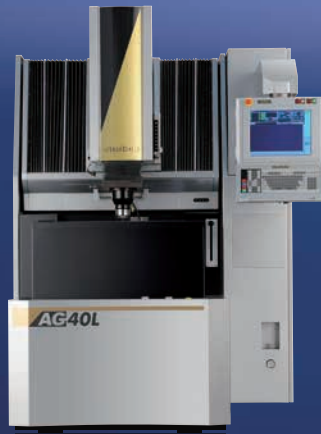


Create your future

Linear Motor Drive

High Speed/High Performance Die-Sinker EDM

AG40L



Linear Motor Drive

High Speed/High Performance Die-Sinker EDM

AG60L



AG series

**Sodick's Smart Technology Supports Manufacturing with
Highly Advanced Technology**

Linear Motor Drive

High Speed/High Performance Large-Capacity Die-Sinker EDM

AG80L



Linear Motor Drive

High Speed/High Performance Large-Capacity Die-Sinker EDM

AG100L



Released
precision
specification

Linear Motor Drive

High Speed/High Performance/High Precision Die-Sinker EDM

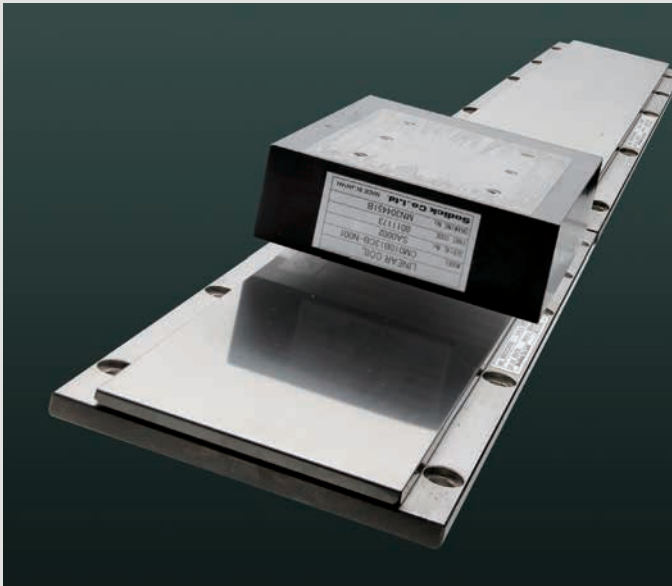
AG40LP

A premium specification machine in pursuit of ultra-high precision in machining, assembly and adjustment of the machine, equipped with the electric discharge stable machining system "Arc-less Plus" improved the machining speed and machining accuracy. Sodick thoroughly pursued precision by adding an ultra-high accuracy roller guide, and temperature control by a highly efficient inverter controller.

Core Technology

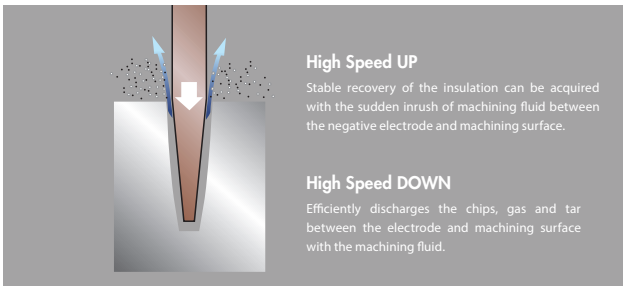
Component technology supports the machining technology of Sodick

Linear motor



Linear Motor

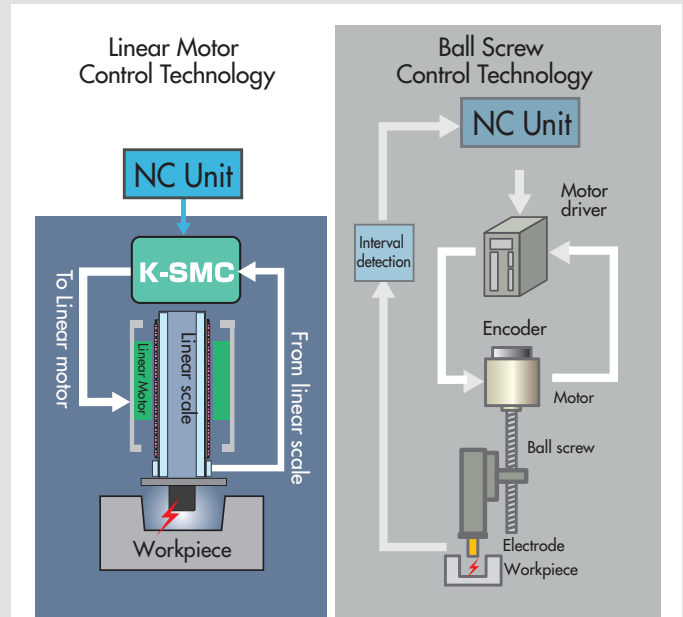
Sodick was the first in the world to mount a linear motor in a mass production type Die-Sinker EDM, and has been providing these machines for more than 17 years. Sodick's linear motor control technology offers numerous excellent features, and has obtained high praise from customers around the world.



Linear Motor Drive Electric Discharge Machining

Electric discharge machining with the linear motor drive method for thick material machining of narrow gaps with no flushing, controls the concentrated discharge and secondary discharge which occurs by the accumulation of chips and etc., and stable machining can always be performed by any operator. This is the effectiveness of the linear jump by the high speed and high thrust linear motor drive, which enables high quality machining of thick materials with narrow gaps without flushing.

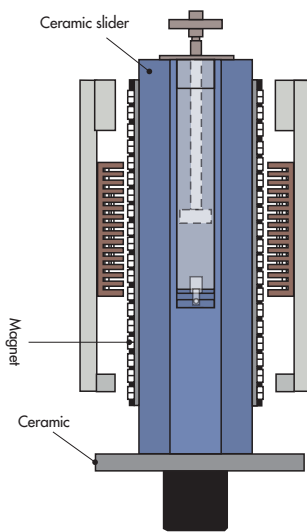
Motion controller



Sodick's Motion Controller (K-SMC)

The linear motor drive method is a direct drive which semi-permanently maintains high speed, high acceleration, high accuracy and high response. There is no existence of backlash which is a problem with the conventional ball screw drive method, and semi-permanently maintains accurate axis movement. Therefore, this is a "highly stable" and "ecological" drive method, which does not require periodic replacement like a ball screw. Moreover, the performance of this linear motor demonstrates the highest performance in combination with the motion controller (K-SMC) which Sodick has developed over the years.

Ceramic



Ceramic Components

The independently developed lightweight and high rigidity ceramic sliders with low thermal displacement are used for the slide portions of the Z-axis linear motor drive of the AG40L/AG40LP/AG60L. By mounting a finely balanced linear motor on the right and left sides of the slide portions to offset the magnetic attraction force, the shape accuracy of the slide portion is stably maintained, which realizes high straightness and a smooth drive.

Superiority of Ceramic

When low specific gravity ceramic is used in moving components, such as the slider, weight reduction can be realized which reduces the load on the motor.

The low co-efficient of the linear thermal expansion, minimizes the thermal deformation caused by temperature changes in the environment.

The excellent insulation enables the accurate supply of low discharge energy used in finish machining between the poles.

The initial shape accuracy can be stably maintained over long periods.

CNC Power Supply



CNC Power Supply + Discharge Unit

This EDM is equipped with the new power supply "LP Power Supply," standardly provided with all the functions required for high accuracy and highly efficient machining. Moreover, a CF card has been adopted for the memory media to realize improvements in reliability and energy savings.

High Accuracy & High Rigidity

High Accuracy & High Rigidity

Rigidity of the Machine Supports the High Speed, High Response and High Thrust Linear Motor Drive

Highly Rigid Construction & Space-saving

Sodick was successful in reducing the machine installation space, as well as creating an extremely high base with machine rigidity, by making full use of the latest CAE analysis technology to perform repeated analysis for the optimization of the rib arrangement and optimization of the cast thickness. In order to improve the superiority further with this latest design technology, ideal machine accuracy has been achieved by thoroughly performing scraping by personnel who have mastered the technology at the highest levels.

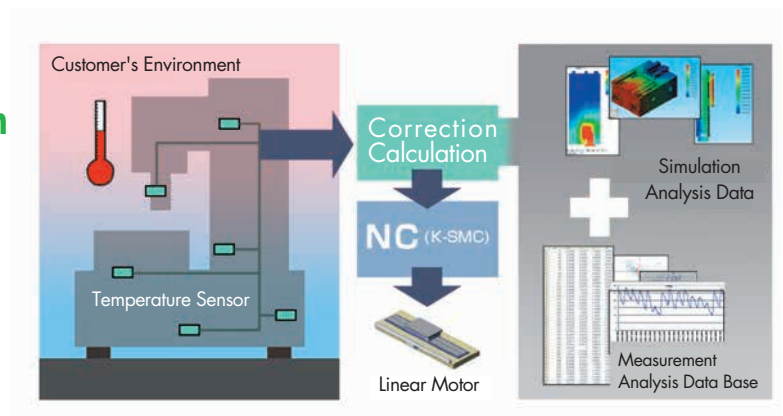


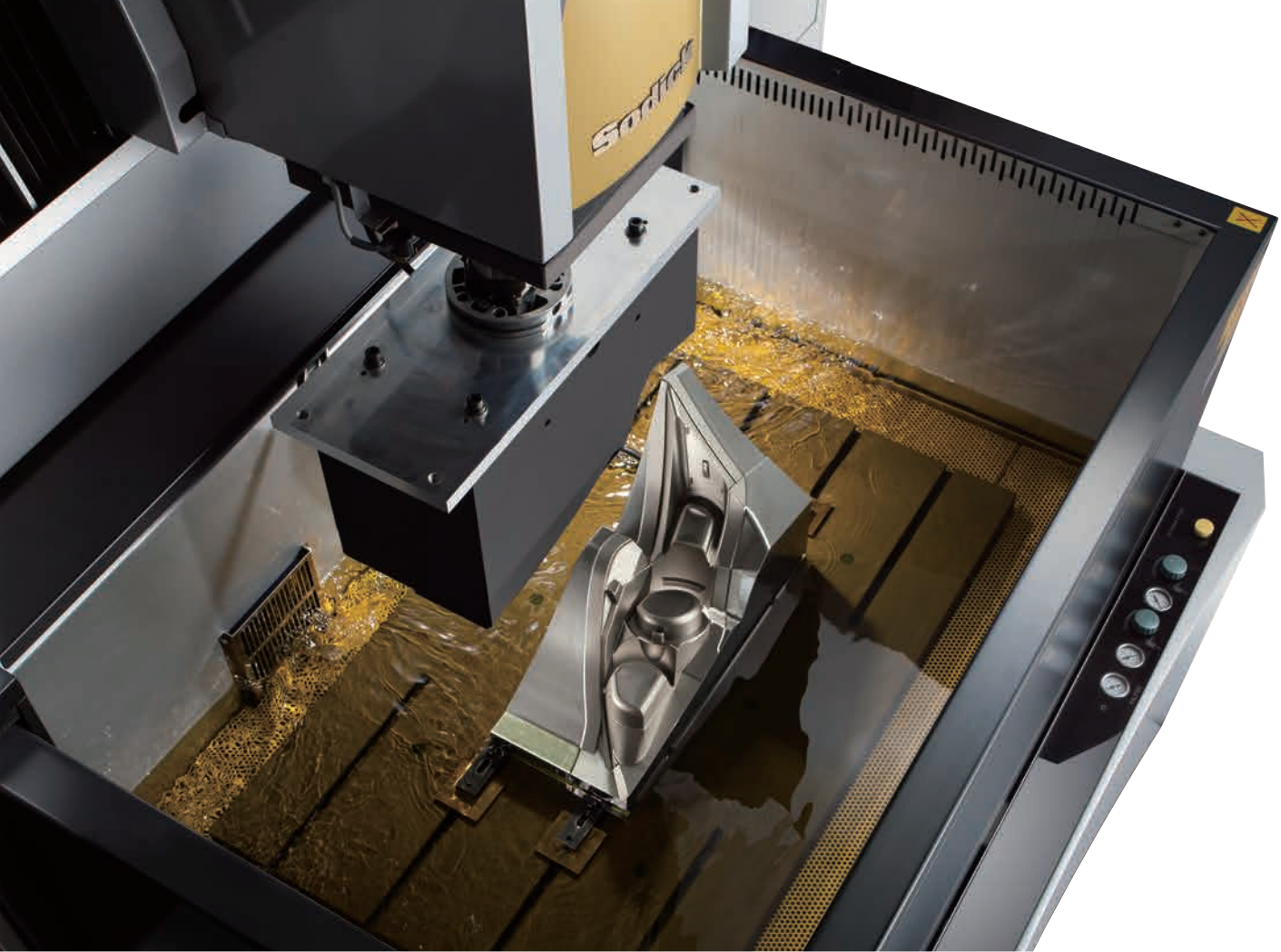
Suppresses the Amount of Displacement Caused by Temperature Changes in Installation Environment

The machine environment is maintained to an optimal condition, by discharging the air from inside the machine to keep a uniform temperature inside/outside of the casting. Accordingly, the amount of thermal displacement in the machine decreases.

Thermal Multi-fit (Option) Precision Thermal Displacement Correction System

Thermal multi-fit is a system to estimate and correct the thermal displacement of the machine in real time, based on the temperature data measured in each part of the machine. The displacement caused by the environment temperature can be reduced by about 1/3 to 1/2. Furthermore, the customer fit function realizes stable machining by performing corrections based on data actually measured in the customer's environment. (Available for AG40L/AG40LP/AG60L/AG80L)





Arranging the External Appearance in a Compact Size Ensures Large Workspace

Improved Operability

Since the table is fixed to the movement of each axis, the approachability is excellent without changing the spatial relationship between the operator and the table.

Moreover, all of the X, Y and Z axes operate on the electrode side therefore the setup work can be performed efficiently.

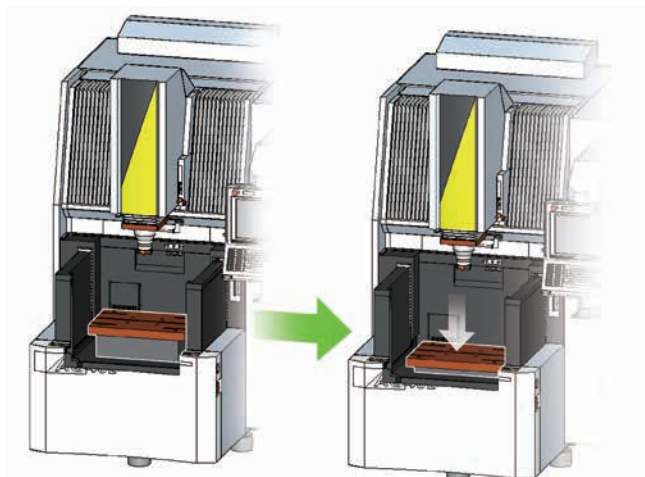
In the AG40L/AG40LP/AG60L/AG80L, the area around the machining tank is completely open all the way to the back, which provides excellent visibility during setup and machining. The machine is also designed so that there are no obstructions when moving large workpieces to the table, or using a crane, hand lifter or etc.

Table Down (Optional for AG40L/AG40LP/AG60L)

In recent years, the demand for machining using a rotary table and machining with a clamp chuck attached to the table in response to automation has been increasing. In conventional machines, the head was raised to respond to this requirement. However, in the AG40L/AG40LP/AG60L, a specification which satisfies both the "open height" and "level of the machining fluid" has been realized by lowering the table, which flexibly responds to the various setup work of customers.

Centralized Operation Layout

The operability during machining has been greatly improved by installing the flushing/suction adjustment knob, flushing/suction pressure gauge, filter pressure gauge and etc. in front of the machining tank. Moreover, since the fluid supply/discharge time has been reduced, shifting from setup to machining and checking while machining can be performed smoothly.



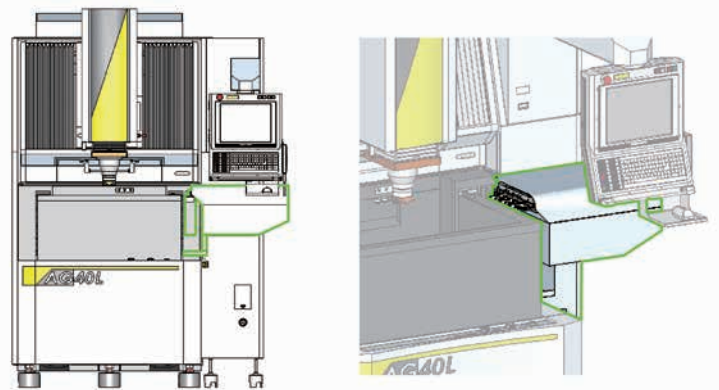
Automation System Automated Tool Changer (ATC) (Option)

Sodick developed the AG Series based on a structure compatible to automation systems, aiming for power savings and full automation.

This system is compatible to any automation, from simple automation systems utilizing automated tool changers (ATC) to full-scale automation systems using robots.

Shuttle ATC (Option)

This is the most simple automation system. In the AG40L/AG40LP/AG60L/AG80L, the overhang from the machine was reduced by arranging the shuttle ATC on the right side of the machining tank to realize a space saving design. Moreover, the flexible stroke of the shuttle ATC arm was extended, and the electrode standby position was moved from inside the machining tank to outside the machining tank. Therefore, the space in the machining tank can be utilized without worrying about the presence of the standby electrodes.



Max. electrode size	75 x 75 mm (EROWA Combi/ITS, system 3R Combi/Macro)
Max. electrode length *1	200 mm (Holder included)
Max. electrode weight *2	3 kg (Holder included)
Electrode storage capacity	AG40L/AG40LP: 4, AG60L: 6 AG80L: 6, AG100L: 6 (EROWA Compact/ITS, System 3R Junior/Macro)

*1: The length changes with the shape of the workpiece and setting.

*2: The maximum total weight of the electrode is 15 kg (Holder included).





* Photo shows the ATC16

ATC-12S (Option for AG40L/AG40LP/AG60L)

This easy to operate automated tool changer realized an electrode storage capacity of up to 12 electrodes, even with the smaller footprint.



Max. electrode size	φ 72 mm □ 60 mm
Max. electrode length ^{*3}	200 mm (Holder included)
Max. electrode weight ^{*4}	4 kg (Holder included)
Electrode storage capacity	12

*3: The length changes with the shape of the workpiece and setting.

*4: The maximum total weight of the electrode is 24 kg (Holder included).

ATC16/32 (Option)

This automated tool changer (ATC 16/32) is installed on the side of the machining tank, and holds 16 or 32 electrodes. The installation space has been reduced compared to the conventional type.

Max. electrode size	φ250 mm
Max. electrode length ^{*5}	AG40L/AG40LP: 200 mm, AG60L: 250 mm AG80L: 250 mm, AG100L: 250 mm
Max. electrode weight ^{*6}	10 kg (Holder included)
Electrode storage capacity	16/32

*5: The length changes with the shape of the workpiece and setting.

*6: The maximum total weight of the electrode is 100 kg (Holder included).

Automation System Robot (Option)

This is a fully automated system utilizing robots which automatically changes electrodes and workpieces. In the AG40L/AG40LP/AG60L/AG80L, when the 3 sided auto up/down type machining tank is lowered, the right and left sides of the machining tank are completely open therefore it can be accessed from the right or left sides of the machine.

Starter kits combined with EROWA COMPACT 80 are available for the AG40L/AG40LP/AG60L.

Starter Kit A

"ITS148" palette Die-Sinker EDM: 1 (AG40L/AG40LP/AG60L)

Machine interface

Chuck control: 2 sets (Table x 1: Power chuck, Quill x 1: ITS)

ITS148 palette: 10 places (Including: 4 ITS148 palette)

ITS holder: 33 places (Including: ITS Holder x 24, Chucking plugs x 20)

Starter Kit B

"UPC" palette Die-Sinker EDM: 1 (AG40L/AG40LP/AG60L)

Machine interface

Chuck control: 2 sets (Table x 1: UPC chuck, Quill x 1: ITS)

UPC palette: 4 places (Including: UPC palette x 2, Gripper links x 2)

ITS holder: 33 places (Including: ITS Holder x 24, Chucking plugs x 20)



Advanced Version

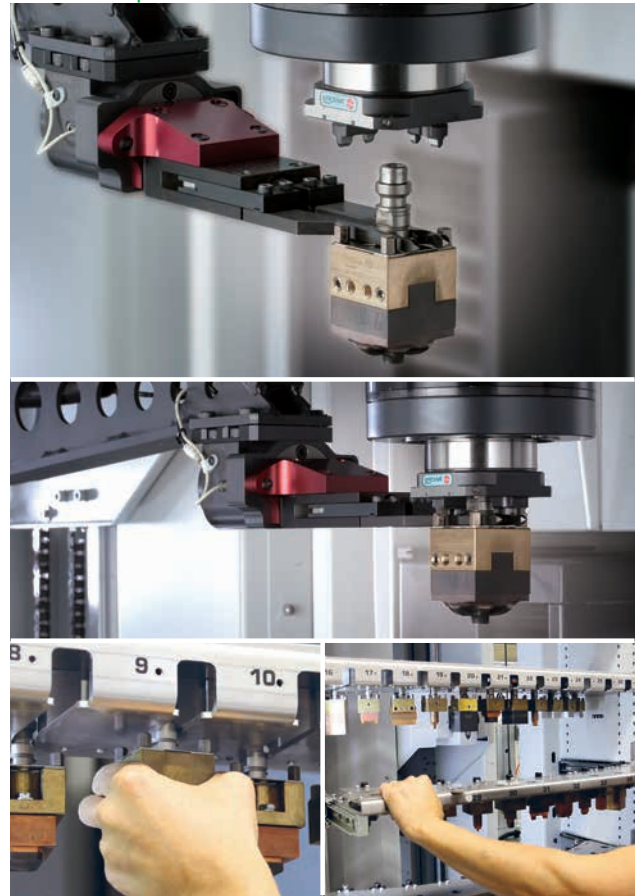
The layout of the machine body and robot can be arranged freely, and one robot can also be placed between two standard specification machines.

Moreover, the process of machining and electric discharge can be constructed by combining a Die-Sinker EDM and milling center. Various patterns can be created efficiently, from the manufacturing of electrodes to automatically performing electric discharge machining utilizing the electrodes.

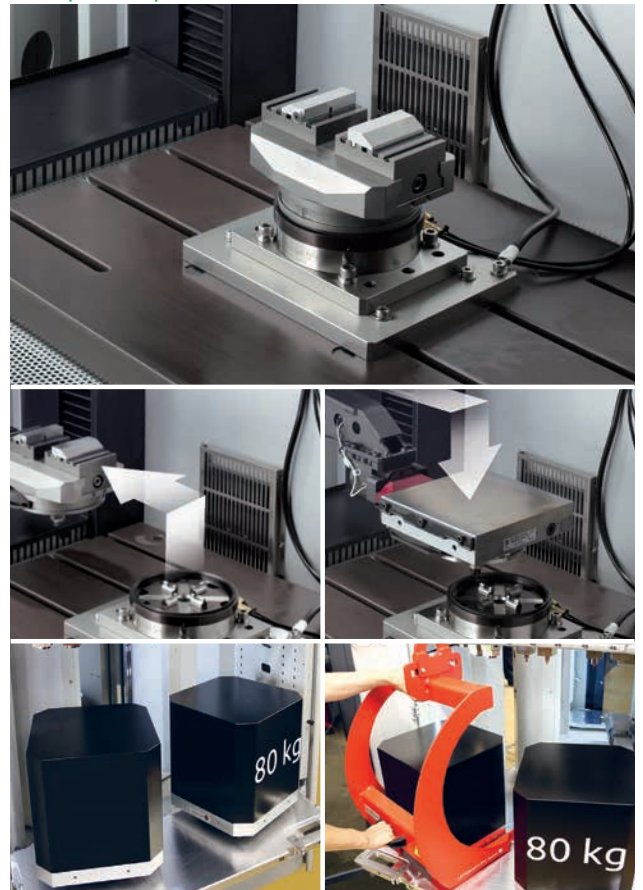




Electrode Replacement



Workpiece Replacement



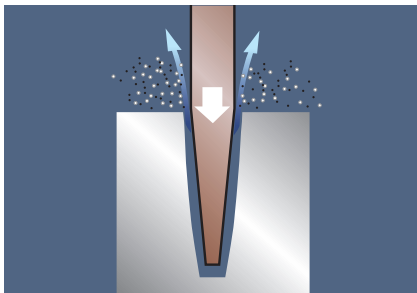
Electric Discharge Technology

Equipped with "TMM3" Discharge Power Supply Unit

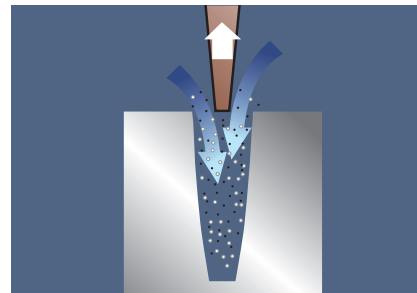
High Speed, High Response & High Thrust
**Linear Motor Drive
 Electric Discharge
 Machining**

Thick Material Machining of Narrow Gaps with No Flushing

Electric discharge machining with the linear motor drive method controls the concentrated discharge and secondary discharge which occurs by the accumulation of chips and etc., and stable machining can always be performed by any operator. This is the effectiveness of the linear jump by the high speed and high thrust linear motor drive, which enables high quality machining of thick materials with narrow gaps without flushing.



High Speed DOWN
 Efficiently discharges the chips, gas and tar between the electrode and machining surface with the machining fluid.



High Speed UP
 Stable recovery of the insulation can be acquired with the sudden inrush of machining fluid between the negative electrode and machining surface.

**Realizes Stable Machining of
 any Material at all Times**

- Substantially reduces consumption of graphite electrodes
- High speed copper electrode machining
- Non-flush machining of carbide

Arc-less Plus

Realizes Reliable High Precision Machining

Arc-less Plus demonstrates its effectiveness in any workpiece material, and finishes the electric discharge machining reliably even with carbide. Stable discharge can also be performed in machining with large size electrodes where a high negative pressure is applied. Arc-less Plus realizes reliable and high performance machining in various machining scenes, which greatly reduces the machining time, reduces the overall costs by reducing the number of electrodes to be manufactured, and reduces human errors.



Since carbide can be machined without flushing, a machining environment can be established without depending on experimental rules.

Arc-less Plus also reduces the consumption of electrodes. (Arc-less Plus)

Machine	AG40L
Workpiece material	Cemented carbide
Electrode size	φ5.0 mm
Electrode material	Copper-tungsten
Number of electrodes	3
Electrode wear	Rough: 2.173 mm, Medium: 0.041, Finishing: 0.006 mm
Electrode undersize	0.12 mm/side
Machining depth	15 mm
Surface roughness	Ra 0.61 μm (Rz 4.09 μm)
Machining fluid	VITOL-2

High Quality Finishing

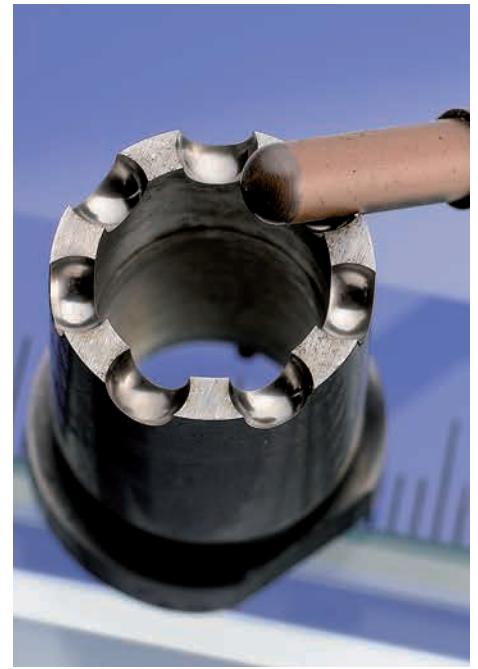
"SVC" Circuit

Bearing Retainer Glossy Surface Finishing

High quality machining surfaces can be acquired in a short time with the "SVC" Circuit, which enables high speed and uniform machining, ideal 3D orbiting and finishing with a micro current.



Machine	AG40L
Workpiece material	SKD61
Electrode material	Cu
Machining depth	1.7 mm
Surface roughness	Rz 0.85 μm



Gate Machining

Uniform gate outlet diameters ($\phi 0.39$ mm) without variations can be machined without flushing.

Machine	AG40L
Workpiece material	ELMAX
Electrode material	Cu
Machining depth	6 mm
Surface roughness	Ra 0.15 μm (Rz 1.00 μm)
Machining fluid	VITOL-2



Copper Electrode Gate Shaped Deep Hole Machining

Stable deep hole machining without flushing, turning or orbiting can be maintained from a solid.

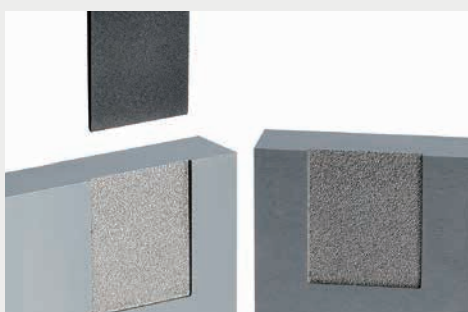
Machine	AG60L
Workpiece material	NAK80
Electrode material	Cu, Tip $\phi 1.0$ mm, Taper 0.5° /side
Machining depth	150 mm



Machining of Bottom Corner R

Accurate transferability in minute areas enables machining of bottom corners at R0.008 mm.

Machine	AG40L
Workpiece material	Steel SKH51
Electrode material	Copper-tungsten
Machining depth	1.0 mm
Surface roughness	Rz 0.8 μm
Machining fluid	VITOL-2



Graphite Electrode Rib Shaped Machining

One graphite electrode can maintain stable rib machining without flushing from a solid.

(Used Graphite Fit Mode of LN Professional)

Machine	AG60L
Workpiece material	SKD61
Electrode material	ISO63, Tip 1 x 25 mm, Taper 1.0° /side
Machining depth	30 mm

* Based on Sodick's machining environment and specified conditions.

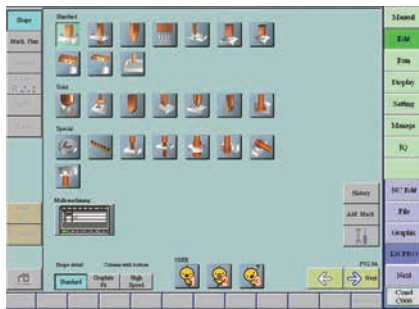
* This catalog uses the surface roughness unit Rz based on JIS B0601: '01; ISO 4287: '97/ISO 302: '02.

LN Professional

Optimal conditions can be easily selected from more than 10,000 machining conditions. LN Professional provides various machined shapes for all machining scenes. The machining conditions inference engine "Q³ute" which is an improved version of the conventional method of selecting the optimal conditions from the vast number of registered machining conditions is standardly equipped in this machine.

Shape Selection

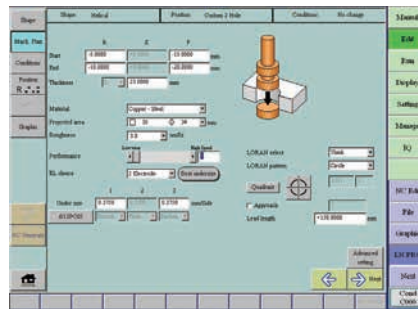
Shapes can easily be set even by beginners, using the graphic icon indications.



- Selection items | Standard shapes, cubic shapes and special shapes
- History | NC programs that have been performed once previously can be called up immediately.
- User | Original NC programs created by the customer can easily be called up.

Machining Plan

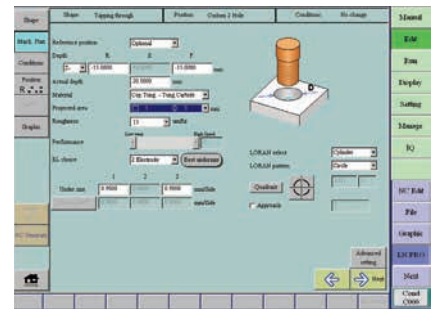
In the machining plan, the various conditions which matched each shape can be selected. For example, if a core pin shape is selected, the machining conditions specialized in precision machining and machining operations focusing on corner accuracy will be displayed.



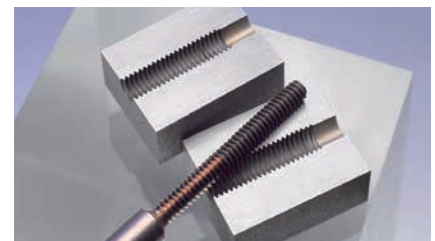
Machined shape: Helical



■ Performance adjustment bar
The balance between the machining speed and electrode wear can be set with this performance adjustment bar. Accordingly, the setting can be changed flexibly according to the production schedule.



Machined shape: Tapped through

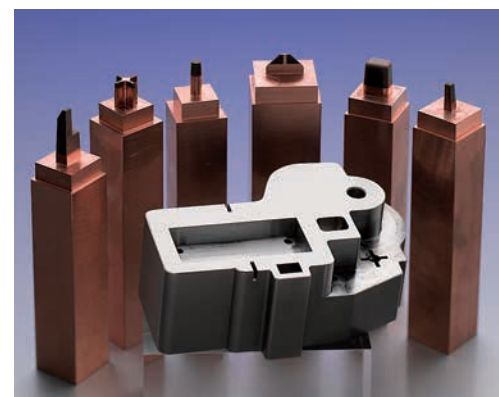


Intelligent Q³vic EDM

Standardly equipped with Intelligent Q³vic EDM (Machine equipped with LP Power Supply)

The "Intelligent Q³vic EDM" is an on machine CAM for Die-sinker EDMs which can be used by importing 3D solid model data used in mold designs into an electrical discharge machine as is.

The 3D data can be used to confirm the machining positions, positioning and etc., which enables intuitive operation by the 3D display, and setup can be performed quickly without errors with a feeling like there is no NC. The operating ratio of the machine will improve with the intuitive operation by the 3D display, without any complicated input work.



Supports All Machining Scenes

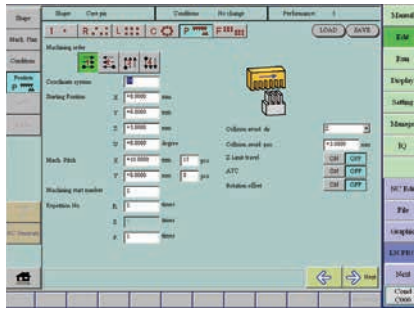
Condition Details

In the condition details, the entire schedule can be confirmed in a list format. In this screen, the conditions can be specified by directly inputting more detailed settings.



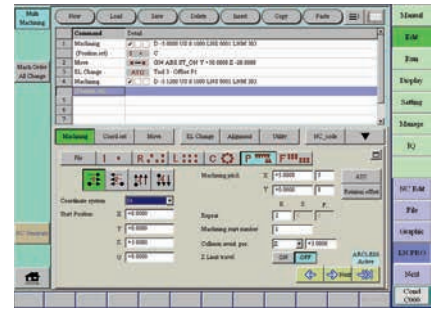
Position Settings

Programs can easily be created in combination with the button operations, such as registration of the machining, coordinate settings, travel, electrode replacement, positioning and electrode offset.

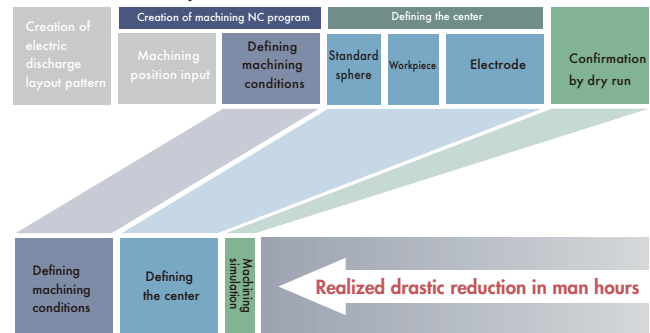
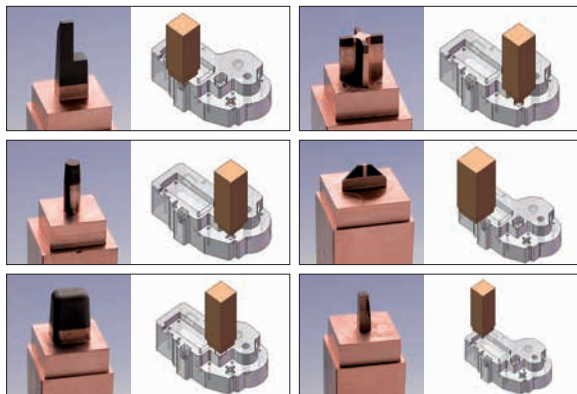


Complex Machining

Complex machining can be listed in combination, which allows the creation of programs at once.



Common Setup



Intelligent Q³vic EDM

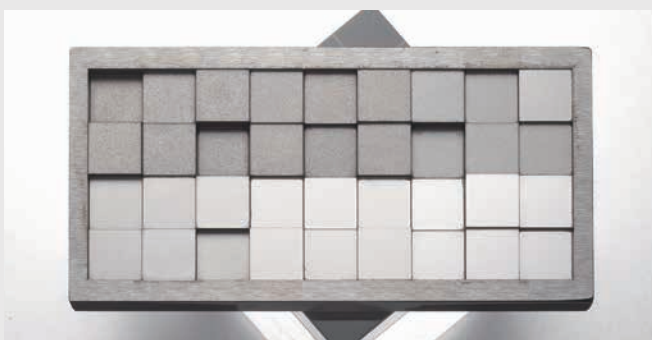
The operating ratio of the machine will improve with the intuitive operation by the 3D display, without any complicated input work.

Machined Samples



Hexagon Head Machining

Machine	AG40L
Workpiece material	Cemented carbide
Electrode size	CuW
Machining depth	6 mm
Surface roughness	Rz 1.8 μm



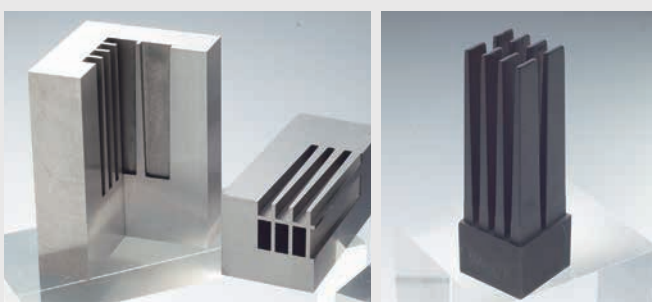
Electric Discharge Machined Surface

Machine	AG40L
Workpiece material	SKD61
Electrode size	Cu
Machining depth	0.3 - 3 mm
Surface roughness	Rz 0.6 μm



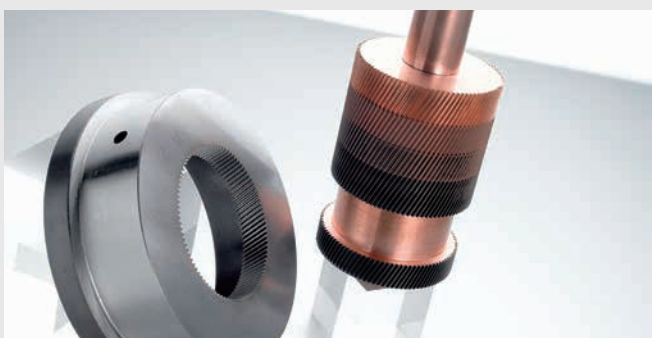
Bearing Retainer Glossy Surface Finishing

Machine	AG40L
Workpiece material	SKD61
Electrode size	Cu
Machining depth	1.7 mm
Surface roughness	Rz 0.85 μm



Graphite Rib Machining

Machine	AG60L
Workpiece material	SKD11
Electrode size	Gr (TTK-5)
Machining depth	40 mm
Surface roughness	Rz 10 μm



Helical Gear

Machine	AG40L
Workpiece material	SKD61
Electrode size	Cu
Machining depth	12 mm
Surface roughness	Rz 3 μm



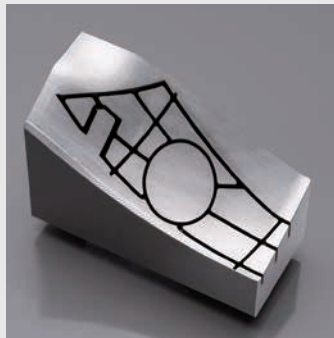
Turbine fin machining by 1 electrode

Machine	AG60L
Workpiece material	SKD61
Electrode material	Gr (TTK9)
Electrode wear	0.020 mm
Machining depth	25 mm
Surface roughness	Rz 9.8 μm



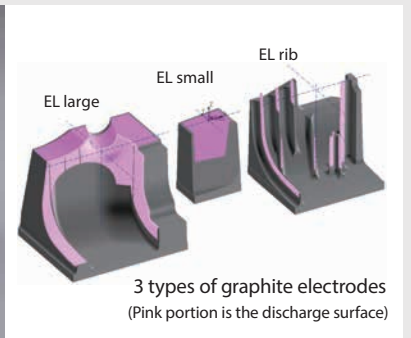
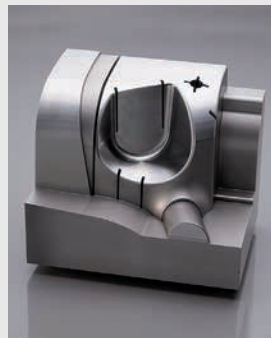
Speaker grill machining by 1 electrode

Machine	AG60L
Workpiece material	NAK80
Electrode material	Gr (EX70)
Electrode wear	0.006 mm
Machining depth	3 mm
Surface roughness	Rz 10.8 μm



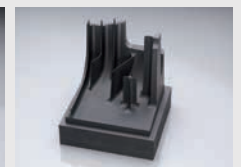
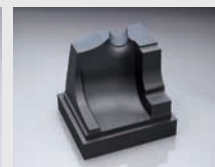
Speaker deep rib machining by 1 electrode

Machine	AG60L
Workpiece material	NAK80
Electrode material	Gr (ISO63)
Electrode wear	0.018 mm
Machining depth	24 mm
Surface roughness	Rz 9.8 μm

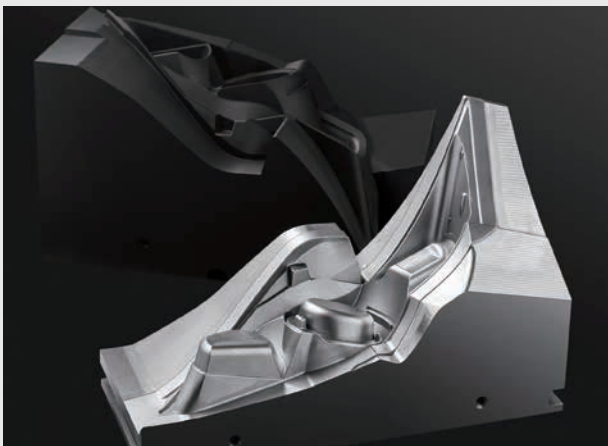


Handle column cover by 1 electrode

Machine	AG60L
Workpiece material	NAK80
Electrode material	Gr (EX70)



EL large	EL small	EL rib
Electrode wear	0.014 mm	0.008 mm
Machining depth	50 mm	6.2 mm
Surface roughness	Rz 9.9 μm	Rz 9.9 μm
Electrode wear	0.010 mm	0.010 mm
Machining depth	85 mm	85 mm
Surface roughness	Rz 9.9 μm	Rz 9.9 μm



Automobile Component Integral Mold

Workpiece material	S55C
Electrode material	Gr
Surface roughness	Ra 1.5 μm (Rz 9 μm)

Specification sheet

Specification sheet

Machine		AG40L / AG40LP		AG60L	
Table dimensions (W x D)		600 x 400 mm (Ceramic)		750 x 550 mm (Ceramic)	
Work tank inner dimensions (W x D x H)		750 x 620 x 350 mm		950 x 740 x 450 mm	
Liquid level adjustable range (From upper surface of table)		100 - 300 mm		150 - 400 mm	
Max machining tank capacity		190 Liter		330 Liter	
X axis stroke		400 mm		600 mm	
Y axis stroke		300 mm		420 mm	
Z axis stroke		270 mm		370 mm	
Clamp chuck ^{*1}	Auto clamping	EROWA system3R	COMBI Spec.	ER-020025	
	Manual clamping	EROWA system3R	ITS Spec. COMBI Spec. MACRO Spec. TP specification	ER-007521 3R-460.86-2 3R-600.86 TP-02	
Max. weight of workpiece		550 kg		1500 kg	
Max. suspended weight ^{*2}		50 kg (AG40L) / 20 kg (AG40LP)		50 kg	
Distance from workpiece mounting surface to upper surface of table ^{*3}		150 - 420 mm		200 - 570 mm	
Distance from floor to table upper surface		830 mm		850 mm	
Machine dimensions (W x D x H)		1550 x 2440 x 2330 mm (AG40L) / 1550 x 2407 x 2330 mm (AG40LP) (Power supply and service tank included)		1740 x 2785 x 2570 mm (Power supply and service tank included)	
Machine weight (Power supply & service tank included)		4000 kg		5150 kg	
Total electric capacity		3-phase 50/60 Hz 10 kVA		3-phase 50/60 Hz 10 kVA	
Air pressure		0.65 MPa ^{*4}		0.65 MPa ^{*4}	
Air flow rate		100 NL /min		100 NL /min	

Service Tank		AG40L / AG40LP		AG60L	
Machining fluid		Electric Discharge Machining Oil		Electric Discharge Machining Oil	
Machining fluid		285 Liter		465 Liter	
Machining fluid required capacity		330 Liter		560 Liter	
Machining fluid filtration method		Replaceable paper filter		Replaceable paper filter	

CNC power supply		AG40L / AG40LP / AG60L	
Max. machining current		40A	
Electric discharge power supply		TMM3 power supply for ideal pulse control (Equipped with Arc-less, SVC circuit)	
Power supply input specification		200/220 V 50/60 Hz	
NC unit		OS built-in multitasking, K-SMC-LINK method	
User memory capacity		Editing: 100,000 blocks Saving: 30 MB	
Memory device		CF card, external memory	
Input method		External memory Touch panel, keyboard	
Display method		15" TFT-LCD (XGA)	
Printable character		Kanji (JIS Level 1 Kanji characters), alphabet, numerical characters, etc.	
Keyboard		Standard 101 keyboard, function key	
Remote controller		Standard jog (Multi-stage switching), Assist A0 - A3 Clamping/Unclamping, etc.	
Position command method		Incremental / absolute in combination	
Input range		±999999.999/±99999.9999/±9999.99999 (Changeable)	
Electric discharge machining condition registration function		1000 conditions can be registered	
Offset function		1000 conditions (H000 to H999)	
Program sequence No.		N000000000 to N999999999 possible by specified setting	
Subprogram nesting levels		50	
Q command nesting levels		7	
Coordinate value		60	
Number of simultaneously controlled axes		Max 4 axes (LP20: Max 6 axis / 8 axis specification)	
Min. command unit		0.1μm	
Min. drive unit		0.1μm	
AJC speed	X, Y-axis	Max 10 m/min	
	Z-axis	Max 36 m/min	
Max. feed speed		X, Y, Z-axis 6 m/min	
Position detection method		Full closed loop (Linear scale)	
Drive system		Linear motor	
Various compensation		Pitch error, plane pitch error, torque compensation for each axis	
Editing		Editing during machining, multi-editing of two files on one screen	
Graphics function		XY/ YZ/ ZX plane, graphics drawing during machining, background graphics drawing LORAN shape drawings, electric discharge graphs, etc.	

^{*1}. Select the clamp chuck. (There are additional charges if a chuck made by EROWA, System3R is selected.) If there is no specification, a TP clamp chuck will be supplied (cannot be used with ATC).
^{*3}. With the EROWA COMBI/ITS specification. ^{*4} If the specified air pressure cannot be satisfied, attach a booster regulator (option).

^{*2}. It is necessary to adjust the air pressure manually.

AG80L			AG100L		
1100 x 700 mm (Ceramic)			1600 x 1000 mm		
1400 x 950 x 500 mm			2100 x 1250 x 650 mm		
150 - 450 mm			325 - 600 mm		
690 Liter			1725 Liter		
850 mm			1200 mm		
520 mm			650 mm		
420 mm			500 mm		
	EROWA	COMBI Spec.	ER-020025		
	EROWA	ITS Spec.	ER-007521		
	system3R	COMBI Spec.	3R-460.86-2		
	system3R	MACRO Spec.	3R-600.86		
		TP specification	TP-02		
3000 kg			5000 kg		
100 kg			100 kg		
250 - 670 mm			350 - 850 mm		
840 mm			940 mm		
2060 x 3130 x 2900 mm			3820 x 4200 x 3340 mm		
(Power supply and service tank included)			(Power supply and service tank included)		
9400 kg			12500 kg		
3-phase 50/60 Hz 17 kVA			3-phase 50/60 Hz 18 kVA		
0.65 MPa ^{*4}			0.65 MPa ^{*4}		
100 NL/min			100 NL/min		

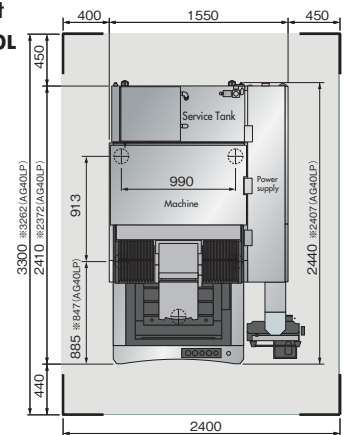
AG80L		AG100L	
Electric Discharge Machining Oil		Electric Discharge Machining Oil	
846 Liter		2770 Liter	
1000 Liter		2770 Liter	
Replaceable paper filter		Replaceable paper filter	

AG80L / AG100L	
80A	
TMM3 power supply for ideal pulse control (Equipped with Arc-less, SVC circuit)	
200/220 V 50/60 Hz	
OS built-in multitasking, K-SMC-LINK method	
Editing: 100,000 blocks	
Saving: 30 MB	
CF card, external memory	
External memory	
Touch panel, keyboard	
15" TFT-LCD (XGA)	
Kanji (JIS Level 1 Kanji characters), alphabet, numerical characters, etc.	
Standard 101 keyboard, function key	
Standard jog (Multi-stage switching), Assist A0 - A3	
Clamping/Unclamping, etc.	
Incremental / absolute in combination	
±999999.999/±99999.9999/±9999.99999 (Changeable)	
1000 conditions can be registered	
1000 conditions (H000 to H999)	
N000000000 to N999999999 possible by specified setting	
50	
7	
60	
Max 4 axes (LP20: Max 6 axis / 8 axis specification)	
0.1 μm	
0.1 μm	
Max 10 m/min	
Max 36 m/min	
6 m/min	
Full closed loop (Linear scale)	
Linear motor	
Pitch error, plane pitch error, torque compensation for each axis	
Editing during machining, multi-editing of two files on one screen	
XY/ YZ/ ZX plane, graphics drawing during machining, background graphics drawing	
LORAN shape drawings, electric discharge graphs, etc.	

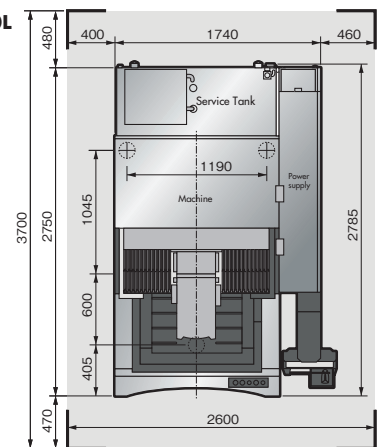
depending on the suspended weight. The auto type is also available as an option.

Layout

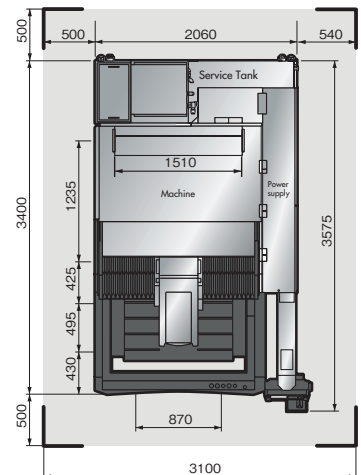
AG40L



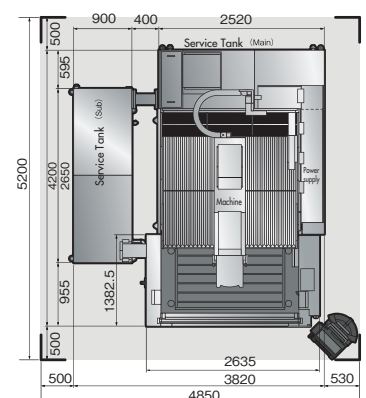
AG60L



AG80L



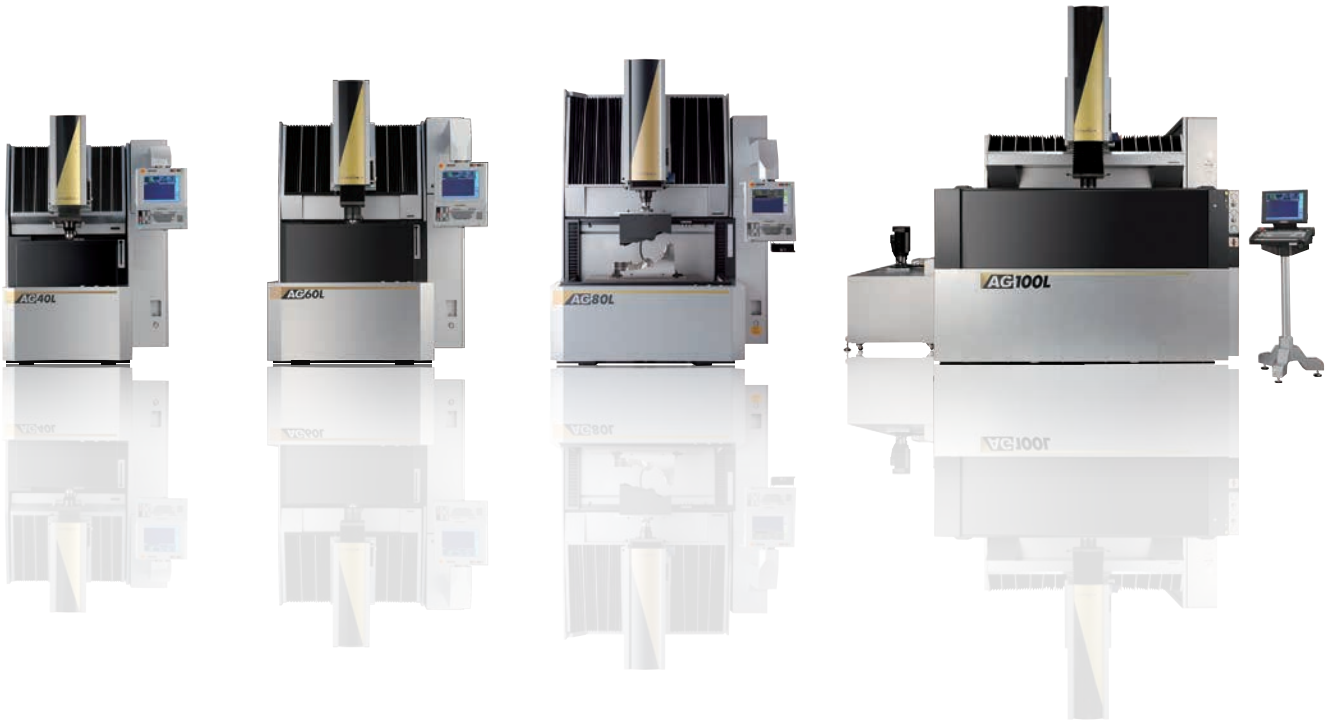
AG100L



Linear Motor Drive Die-Sinker EDM

AG series

AG40LP AG40L AG60L AG80L AG100L



Sodick Co.,Ltd.

3-12-1, Nakamachidai, Tsuzuki-ku, Yokohama, Kanagawa

224-8522 Japan

TEL: 81-45-942-3111 FAX: 81-45-943-7880

<http://www.sodick.jp>

- The export of Sodick's products and its related technologies (including software applications) is regulated under Japan's Foreign Exchange and Foreign Trade Control Law. In addition, because some of these products may be subject to re-export controls under the Export Administration Regulations (EAR) of the United States; please contact Sodick before offering or exporting these products overseas.
- This catalogue contains a photographic image that has been generated from 3DCG.
- Due to ongoing research, specifications are subject to change without prior notice.
- The contents of this catalog is current as of November, 2016.