

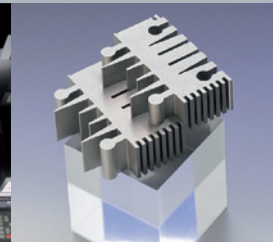
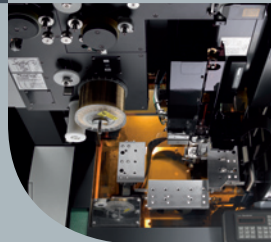


5TH GENERATION LINEAR EDM



Picture shows non-CE machine

Linear motor drive precision Wire-cut EDM



Linear Motor Drive System

Combination of linear motor drive system and a gantry structure has achieved great improvement of positioning and machining accuracy by taking full advantages of backlash free quick axis movement, while minimizing the deformation of the machine structure during axis movement. The new dielectric chiller and the surface level adjustment function ensure stable machining performance from the moment the machine is turned on.

The New "LP2W" Controller

The 5th generation electrical discharge technology "LP2W" has adopted the "Perfect Active Control," enabling simultaneous control of high-speed electrical discharge and axis-movements by using serial communication technology of 1Gbit/sec. The oil machine features Eco Cut O, which allows oil dielectric to realize a same cutting speed as water dielectric to achieve the surface finish of less than 0.15µmRa.

Improved Operability

The machine features 3-sided automatic tank door and a worktable with 3 frames to realize the user friendly operations. The optimum layout of a valve unit and a controller allows an operator to handle every work at the same place.



Nano&Solution

Specification AP250L

Gantry Structure

Machine has a symmetrical gantry design to create the highly rigid structure, minimizing the effect of thermal distortion.

High Speed Oil Cutting (Eco Cut O)

On the oil submerged machine, it realizes a same cutting speed as water dielectric to achieve the surface finish of less than 0.15µmRa

Perfect Active Control

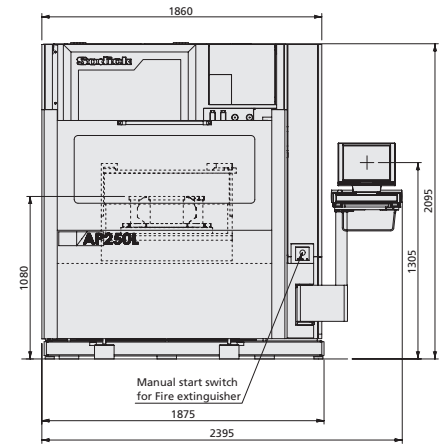
Sodick's in-house made power supply "LP2W" features the communication technology of 1Gbit/Sec.

3-sided Automatic Drop Tank

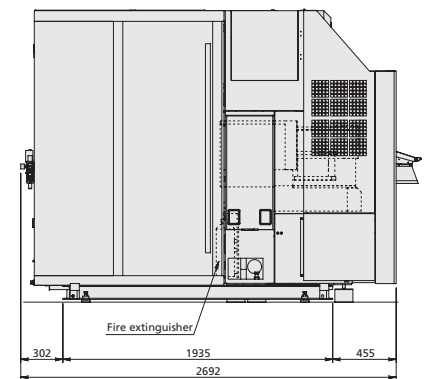
The AP250L has 3-sided Automatic Drop Tank for user-friendly operation and allows automation solution.

Machine Tool	Oil Model / Water Model
Max. workpiece dimensions (WxDxH)	400 x 270 x 100 mm
Max workpiece weight	80 kg
X-/Y-/Z- axis travel	250 x 150 x 120 mm
U axis x V axis travel	35 x 35 mm
Taper angle (at workpiece thickness of 120mm)	±7 °
Wire diameter	ø 0.05 - ø 0.20mm (ø 0.03mm optional)
Wire feed speed (max.)	250 mm/sec.
Wire bobbin weight	6 Kg
Wire tension	3 ~ 25 N
Distance from floor to table top	1080 mm
Machine tool dimensions (W x D x H)	2395 x 2692 x 2095 mm (incl. power supply, dielectric tank, and wire bucket)
Machine installation space (WxD)	2755 x 3645 mm
Machine weight	3900 kg (Incl. CNC and Dielectric tank)
Total power input	3-phases 50/60Hz 10 KVA
Machining method	Submerged
Automatic Wire Threading device	Standard

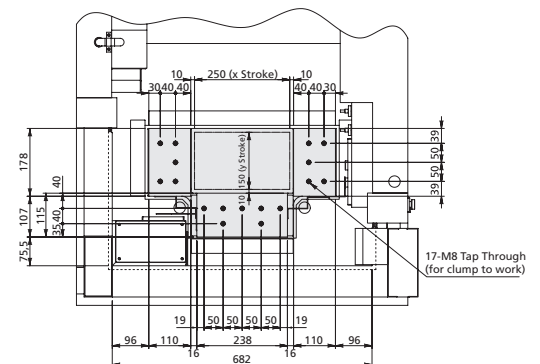
Front View



Side View



Worktable



Standard Features

High speed electrolysis free circuit (Only Water)	Tension servo	Thermally stable machine construction
Taper cut unit	FT II (Fine Pick-up Function)	LP2W Power supply
Corner control	Voltage stabilizer	3-sided automatic tank door
Energy saving circuit	Linear scale (X,Y,U,V axis)	Worktable with 3 frames
Dielectric cooling unit	Ecu-Cut O (Only oil model)	Ceramic Components
AWT (Automatic Wire Threader)	Cross roller guides	Intelligent Q3vic EDW
Super PIKA O/W	Linear Motor Drive (X, Y, U, V axes)	1 Gbit/sec Communication Technology

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