

3-AXIS HIGH SPEED LINEAR DRIVE DIE SINKER E.D.M



FEATURE

Impact Design

All-in-one design to save occupied space by 10%.

X, Y, Z Axis Linear Drive

Highly rigid column moving structure design attached with X, Y, Z axis Linear Motors has the features of high speed, backlash-free, high precision machining, and the orbit function enhances the track and ensures the shape accuracy.

New Generation Circuit

Applying the new generation circuit extends the range of machining conditions and allows users to control the discharge power more accurately for fine molds.

Super-hard Alloy Circuit (SAC)

The advanced technology in Super-hard Alloy Circuit (SAC) can apply in special EDM processing, e.g. tungsten-carbide steel. It brings 2 times higher cutting efficiency & reduces 15% electrode wear than the general circuits.

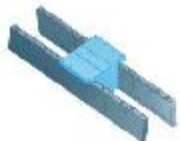

Air Balance Spindle

The linear motor and air balance system are adopted in the EDM spindle with high responsive servo. It can have good machining result on tiny and deep holes also in rib jobs.

User Friendly Surface

It's easy and fast to have suitable combination of working conditions (E code) by entering the electrode and work-piece materials, the ampere, and the roughness through friendly conversation windows.

HIGH SPEED MOVEMENT

	LINEAR Motor	Ball-Screw
Traverse Speed	18 - 21 m / min	2 - 5 m / min
Positioning Lag	NO	YES
Structure		

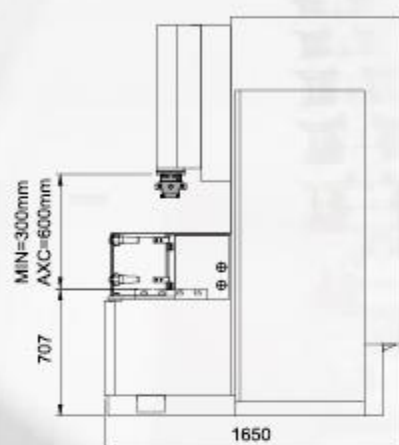
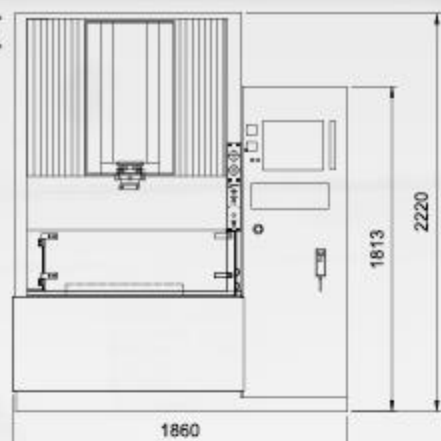
HIGH PERFORMANCE EXAMPLE



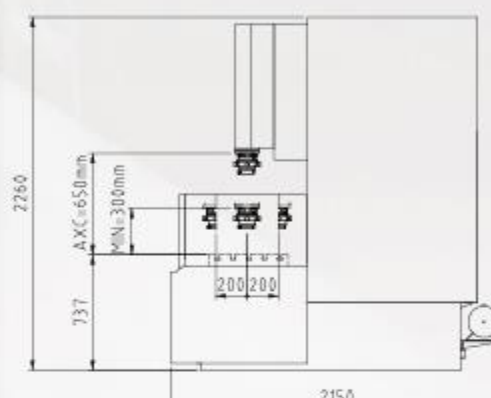
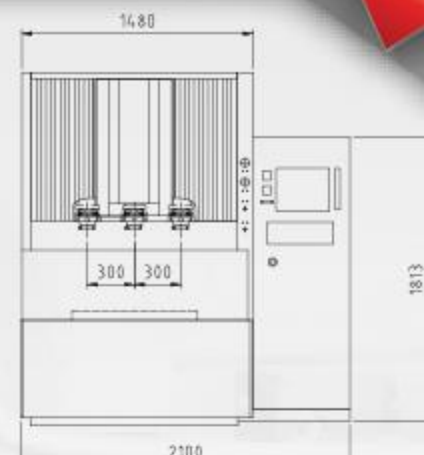
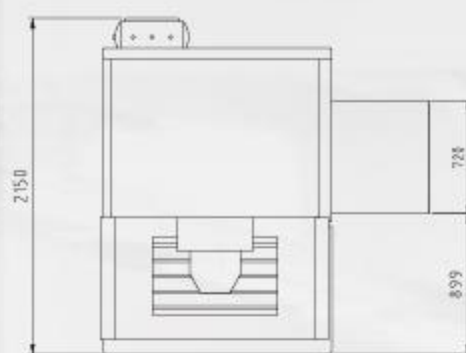
- Electrode : (Cu) 60x60mm 2pcs
- Workpiece : NAK80
- Depth : 2.70mm
- Machining Time : 13hr 05min
(Rough=3hr 35min; Finish=9hr 30min)
- Roughness [Ra] : 0.50µmRa

FLOOR LAYOUT

A5030L LINEAR MOTOR DRIVE 單位:mm



A6040L LINEAR MOTOR DRIVE 單位:mm



SPECIFICATION

ITEMS	UNIT	A5030L	A6040L
Work Table Size (WxD)	mm	650x400	800x500
Work Tank Size (WxDxH)	mm	1100x640x400	1200x740x450
Max. Job Load Size (WxDxH)	mm	850x550x300	1050x700x300
Table Travel (X, Y)	mm	500x350	600x400
Table Travel (Z)	mm	300	350
X, Y, Z Axis Drive	mm	X,Y,Z Axis By Linear Motor	X,Y,Z Axis By Linear Motor
Distance from Ram platen to work table	mm	300~600	250~600
Max. Electrode Weight	kg	30	50
Max. Work-piece Weight	kg	1000	1500
Outside Dimensions (WxDxH)	mm	1860x1650x2220	2100x2150x2260
Net Weight	kg	2230	3000
Pneumatic Requirement	kgf/cm ²	6	6
For Dielectric Tank	—	DA53	DA64

Optional Accessories

3 Pos. ATC	<input checked="" type="checkbox"/>
4 Pos. ATC	<input checked="" type="checkbox"/>
C-Axis	<input checked="" type="checkbox"/>
Magnet Base	<input checked="" type="checkbox"/>
Auto Fill & Drain	<input checked="" type="checkbox"/>
B Axis	<input checked="" type="checkbox"/>
Manual Drop Door	<input checked="" type="checkbox"/>
Super-hard Alloy Circuit	<input checked="" type="checkbox"/>
Oil Cooler	<input checked="" type="checkbox"/>

Note :

◎ B Axis can be operated only under flushing circumstance.

◎ System 3R and EROWA ATC and C Axis are offered as options.

POWER SUPPLY UNIT	UNIT	50N	75N
Max. Machining Current	A	50	75
Max. Power Input	KVA	5	6
Electrode Wear Rate	%	0.2	0.2
Bset Surface Roughness	μm/Ra	0.25	0.25
Outside Dimensions(wxdxh)	mm	Built in	Built in
Weight	kg	Built in	Built in

DIELECTRIC	UNIT	DA53	DA64
Volume	L	480	635
Fliter	method	Paper Fliter	
Power	HP	0.5	
Weight	kg	Built in	
Outside Dimensions	mm	Built in	

*The manufacturer reserves the right to modify the design for specification, machanisms, ...etc. to improve the performance of the machine without notice, all the specifications above are just for reference.