

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

IMPACT  
DESIGN

SAC

LINEAR  
MOTOR

### 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

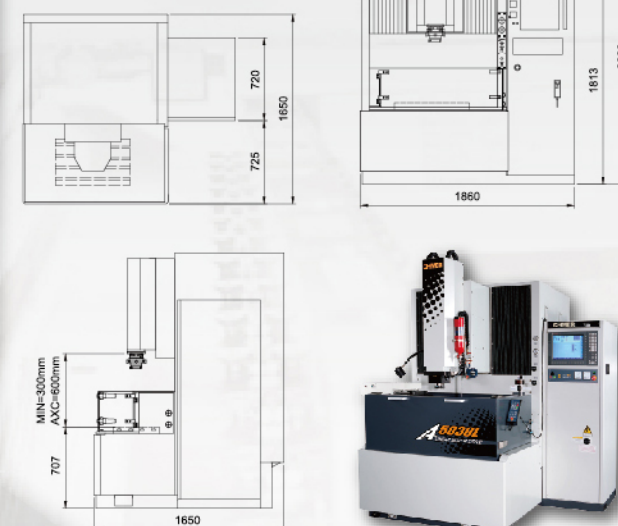
	LINEAR Motor	Ball-Screw
Traverse Speed	18 - 21 m / min	2 - 5 m / min
Positioning Lag	NO	YES
Structure		

#### HIGH PERFORMANCE EXAMPLE

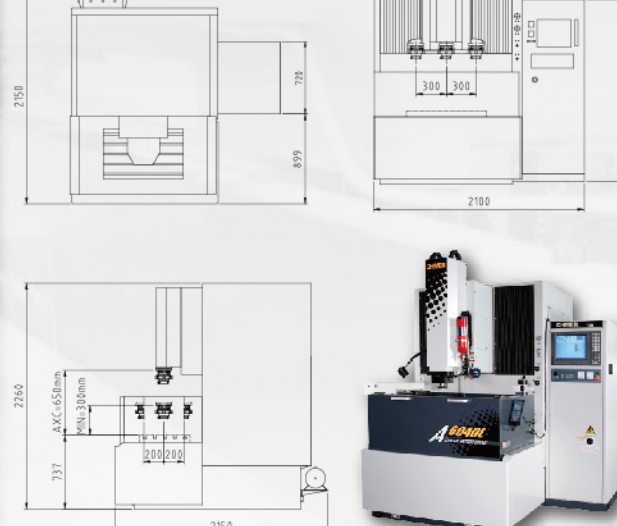
Electrode : (Cu) 60x60mm 2pcs
Workpiece : NAK80
Depth : 2.70mm
Machining Time : 13hr 05min (Rough=3hr 35min; Finish=9hr 30min)
Roughness [Ra] : 0.50μmRa

### FLOOR LAYOUT

#### A5030L LINEAR MOTOR DRIVE



#### A6040L LINEAR MOTOR DRIVE



### SPECIFICATION

ITEMS	UNIT	A5030L	A6040L	Optional Accessories
Work Table Size (WxD)	mm	650x400	800x500	3 Pos. ATC <input checked="" type="checkbox"/>
Work Tank Size (WxDXH)	mm	1100x640x400	1200x740x450	4 Pos. ATC <input checked="" type="checkbox"/>
Max. Job Load Size (WxDXH)	mm	850x550x300	1050x700x300	C-Axis <input checked="" type="checkbox"/>
Table Travel (X, Y)	mm	500x350	600x400	Magnet Base <input checked="" type="checkbox"/>
Table Travel (Z)	mm	300	350	Auto Fill & Drain <input checked="" type="checkbox"/>
X, Y, Z Axis Drive	mm	X,Y,Z Axis By Linear Motor	X,Y,Z Axis By Linear Motor	B Axis <input checked="" type="checkbox"/>
Distance from Ram platen to work table	mm	300~600	250~600	Manual Drop Door <input checked="" type="checkbox"/>
Max. Electrode Weight	kg	30	50	Super-hard Alloy Circuit <input checked="" type="checkbox"/>
Max. Work-piece Weight	kg	1000	1500	Oil Cooler <input checked="" type="checkbox"/>
Outside Dimensions (WxDXH)	mm	1860x1650x2220	2100x2150x2260	
Net Weight	kg	2230	3000	
Pneumatic Requirement	kgf/cm <sup>2</sup>	6	6	
For Dielectric Tank	—	DA53	DA64	

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	DIELECTRIC	UNIT	DA53	DA64
Max. Machining Current	A	50	75	Volume	L	480	635
Max. Power Input	KVA	5	6	Filter	method	Paper Filter	
Electrode Wear Rate	%	0.2	0.2	Power	HP	0.5	
Bset Surface Roughness	μm/Ra	0.25	0.25	Weight	kg	Built in	
Outside Dimensions(wxdxh)	mm	Built in	Built in	Outside Dimensions	mm	Built in	
Weight	kg	Built in	Built in				

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