

High-speed Engraving and milling machine 650L

OID MECHANICAL
PARTS

**MACHINE
SERIES**



The mechanical characteristics of the description :

Base with multi-rib reinforced rigid design, to ensure that the body of heavy load deformation and vibration caused by high-speed machining deformation, are reduced to the lowest possible, to ensure that the positioning accuracy, motion straightness, etc., are always within the scope of accuracy specifications.

High-precision high-rigidity control system :

The control system has a decisive influence on the dynamic machining precision, response speed and rigidity of the engraving and milling machine. The company all Engraving and milling machines are used at both ends of the fixed bearing design and is equipped with appropriate pre-tension, both ends of the ball screw using 2 high-precision angle push bearing fixed to improve the rigidity. By increasing the machine's self-oscillation frequency beyond the normal operating range to ensure high dynamic machining accuracy, servo tuning is easy.

The cutting speed reaches 12m/min, and the cutting speed reaches 8m / min, So that the cutting efficiency is greatly improved.

Optional configuration :

Straight row magazine (BT30-8T)

BT30 hat type magazine (30#-12 / 16T)

The knife instrument

Graphite processing water curtain and filtering system

Models		CNC650L
X-axis travel		500 mm
Y-axis travel		600 mm
Z-axis travel		260 mm
Spindle nose to table top		50-310 mm
Three-axis guide rail width		X: MSA30 PII
		Y: MSA30 PII
		Z: MSA30 PII
Table		
Table size		550×600 mm2
T-slot		6×14×90 mm
Table maximum load		250kg
Main shaft		
Standard spindle		Electric spindle
Spindle speed		3000-24000rpm
Spindle taper		ER25-32
Feed rate		
Cutting rate (XYZ)		1-8m/min
Fast feed (XYZ)		X/Y:12m/min Z:12m/min
Ball screw diameter / pitch		X,Y,Z:32/5mm
Other specifications		
Pressure required		6.0kgf/cm2
Machine net weight		3200kg
Floor area		1950×1850mm2
Machine height		2200mm

Number	Configuration	Specifications	Manufacturers	Origin
1	Three-axis angular contact ball bearing	Inner diameter 20, outer diameter 47	TPI	Taiwan
2	Three-axis ball screw (Class C3)	X, Y, Z: R32-5T5-FDDC-C3	Silver / Intime	Taiwan
3	Three-axis linear guide (p-class)	MSA30 PII	Silver / Intime	Taiwan
4	Electric spindle	ER25-32 3000-24000rpm	Rongxing	Domestic
5	Three-axe telescopic shield	Y axis stainless steel, Z axis organ plate	Hong Chun	Domestic
6	Centralized automatic lubrication system	BE2202F-210X		Domestic
7	CNC system	21A system	New generation	Taiwan
8	Three-axis motor and drive system	AC servo 850W	Yaskawa	Japan
9	Spindle cooling system	Independent oil cooler	Rico	Guangdong
10	Lighting device	LED working light	Lai Zhen	Shanghai
11	The knife instrument	JS-68RG	Junsen	Changzhou
12	Frequency converter	VFD075B43A	Delta	Taiwan
13	Contactors		Shihlin	Taiwan
14	Miniature circuit breakers		Schneider	Japan
15	Total power	AC380V, 8.5 KW		
16	Anchor bolt bearing + anchor bolt + nut	n / a		Domestic
17	Toolbox	Open-end wrench 24/27, open-end wrench 32/34, e wrench ER32, high precision ER32 collets		Domestic