



YS SERIES

YS-870 Structural Characteristics of Engraving and Milling Machine:

The product can be precisely processed for different materials: steel, copper, aluminum, graphite, glass, etc. It is widely used in precision molds, copper electrodes, shoe mold manufacturing, batch processing of clocks, watches and glasses products, etc.



YS-870 Engraving and Milling Machine Features:

A patented spindle box of engraving and milling machine

There is a stepped hole inside the spindle box; the electric spindle is installed in the stepped hole, and a flange is used to fix the spindle box.

Worktable

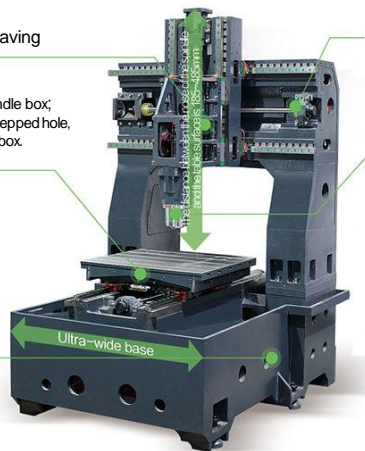
Box structure and ballscrew are integrally formed.

Optical linear scales

Optional Heidenhain, Fagor optical linear scales with accuracy of under $\pm 5\mu\text{m}$.

Base

Multi-layer wall box structure, rear chip extractions.



A triangular rib structure of bridge column

The utility model of the triangular rib structure of the door bridge improves the dynamic and static rigidity of the machine tool and enhances the processing accuracy.

Optional Direct-Driven BBT40 spindle Upgrade Configuration

Standard servo carousel tool magazine; HSK-E40 motor spindle; graphite protection package; laser tool probe; oil mist collector system, and more.

Stable Accuracy
The closed loop optical linear scales with high positioning accuracy can effectively suppress the positioning error caused by the thermal extension of the lead ballscrew.

System Stability

Equipped with Siemens 828D system.

YS Series Parameters

Model			YS-760A	YS-760B	YS-770	YS-870A	YS-870B	YS-8012
Subject	Specifications	Units						
Travel	X/Y/Zaxis	mm	700/600/300	700/600/300	700/700/350	800/700/300	800/700/300	800/1200/300
	Spindle Nose to Worktable	mm	90-30	225-525	175-525	130-430	205-505	195-495
	Three-Axis Guideway				Linear Guideway			
	Door Width		760	760	740	810	810	810
Worktable	Worktable Size(L*W)	mm	700*600	700*600	700*700	720*640	720*640	1200*800
	Maximum Table Load	kg	400	400	400	400	400	1000
	T-Slot	mm	5-16x125	5-16x125	5-16x120	5-16x120	5-16x120	7-18x100
Spindle	Spindle taper	type	BT-30	ER32	ER32	BT-30	ER32	BT-40
	Spindle speed	rpm	24000	24000	24000	24000	24000	15000
	Spindle Drive Type				Built-In			DDS
Feedrate	Rapid Traverse(X/Y/Z)	m/min	15/15/12	15/15/12	15/15/12	15/15/12	15/15/12	15/15/12
	Cuting Feedrate(X/Y/Z)	m/min	12	12	12	12	12	12
ToolChanger	Tool Changer				Carousel Servo ATC			ARMATC
Motor	Spindle Motor	kw	7.5	7.5	7.5	7.5	7.5	5.5
	Three-Axis Servo Motor	kw	0.85/0.85/1.3	0.85/0.85/1.3	0.85/0.85/1.3	0.85/0.85/1.3	0.85/0.85/1.3	1.3/3.0/1.3
Accuracy	Accuracy	mm	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005
	Repeatability	mm	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003
Power Required	Power Requirement	kva		10	10	10	10	12
	Air Pressure Requirement	kg/cm ²		6 [#]	6 [#]	6 [#]	6 [#]	6 [#]
Others	External Dimensions (L*W*H)	mm	2100x2500x2550	2100x2500x2550	2100x2700x2600	2100x2500x2550	2100x2500x2550	3000x2500x2600
	Gross Weight	t	3.8	3.9	4.2	4.7	5	6.8

Standard Accessories

7.5KW-ER32-24000	Coolant Tank&Oil Skimmer	Automatic Lubricating System	Transmission Software and Cables 20m
Auto Tool Length Measurement	Hand Wheel(MPG)	Transformer	LED 3 Color WarningLight
Spindle Oil Cooler	Leveling Bolts and Pads	LED Work Light	aintenance and Operational Manual
Fully Enclosure Guard	ToolBox	Spindle Air & Coolant Blast	Heat Exchange for Electric Cabinet

Options

Oil Mist Collector ATC	7.5KW-BT30-24000	BBT40-15000	Rotary Table
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