



MULTI-SPINDLE ENGRAVING MACHINE

JS-A850-4

Technical Specification

Version 2025

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General Description



Under the background of increasingly fierce competition in the modern manufacturing and machining industry, JOJOY SEIKO has creatively introduced the **Multi-spindle Engraving Machine Series** with an **innovative and unique structural design** to help our customers significantly **reduce costs** and **increase efficiency**. It can not only effectively control the costs of purchasing, labor and land etc., but also the efficiency is even **several times higher** than that of universal machining centers of the world's top brands.

Features

- + The main structure of machine tools consisted of **natural marble and cast iron** with high stability and rigidity.
- + **4-spindle design** means which can achieve **4-purpose simultaneous machining** to improve the efficiency heavily with relatively independent **4 spindles**, **1 worktable** and **4 servo ATCs**.
- + All the servo motors are equipped with absolute value bus encoders for accuracy compensation independently.
- + 4-axis rotary table, tapping and probe optional for customized requirements.

Technical Data

TECHNICAL DATA	UNITS	JS-A850-4
Travel & Range		
X/Y Travel	mm	260/450
Z-axis Travel	mm	120*4
Distance from spindle nose to countertop	mm	60-180
Worktable		
Quantity	-	1
Worktable size	mm	840*460
Max. loading capacity	kg	100
T-slot (width/quantity/distance)	mm/pes/mm	12/5/80
Spindle		
Quantity	-	4
Distance between spindles	mm	210
Max. spindle speed	rpm	60000
Spindle taper	-	ISO 10/T11
Spindle power	kw	2.5
Drive type	-	Electric
Spindle cooling system	-	Water cooling
Controller & Servo System		
CNC controller	-	SYNTEC
X/Y servo motor power	kw	1.3/1.3
Z-axis servo motor power	kw	0.75*4
Servo ATC		
Quantity	-	4
Capacity	T	20T*4
Max. tool diameter	mm	6
Max. tool length	mm	30
Feed Rate		
X/Y/Z Rapid traverse	mm/min	15000
X/Y/Z Cutting speed	mm/min	9000
Accuracy		
X/Y/Z Positioning accuracy	mm	±0.008/300
X/Y/Z Repeatability	mm	±0.004/300
Other Data		
Air source required	Kgf/cm ²	6.5
Gross weight	kg	3600
Overall dimension (L*W*H)	mm	1920*2400*2340
Rated voltage	V	AC 380
Rated power	kw	22

Standard Accessories

ITEMS	BRAND	ORIGIN	REMARKS
CNC controller	SYNTEC	Taiwan	-
X/Y/Z servo motor	SYNTEC/INOVANCE	Taiwan/China	-
Spindle	XWD/HAOZHI	China	
Ball screw	THK/IF	Japan/Germany	Grade C3
Rolling guide	THK/REXROTH	Japan/Germany	PMI/HIWIN optional
Bearing	NACHI/NSK	Japan	-
Coupling	NBK	Japan	-
Servo ATC	-	China	20T*4
Electrical components	SCHNEIDER	France	-
Pneumatic system	SMC	Japan	-
Lubricating system	BAOTN	China	-
Spindle cooling system	-	China	Water cooling
Cutting coolant system	-	China	-
AC for electrical cabinet	-	China	
Tool setter	-	China	Contact measurement
Air through spindle	-	China	-
Electronic handwheel	-	China	-
Bottom chip flushing	-	China	-

Optional Accessories

NO.	OPTIONS
1	WEIHONG / HNC CNC controller
2	Variable spindle power/speed/torque
3	Variable ATC capacity
4	4-axis rotary table
5	Probe for workpiece set-up & inspection
6	Oil mist collector
7	Oil-water separator
8	Tapping

Inspection and Acceptance

In case this is the part of the contract, the Seller shall notify the Buyer of the specified time for inspection at least 30 days in advance, and the Buyer shall send a representative to the Seller's factory, before packaging the equipment, to execute it in accordance with the requirements stipulated in the contract as following:

- **Standard 3-axis simultaneous cutting test and measurement.**
- **Positioning accuracy test and measurement.**
- **Other specific and reasonable tests and measurements.**

If the Buyer's representative fails to arrive at the Seller's factory for inspection as scheduled, the contractual equipment will not be delayed in packaging and delivery. Therefore, the Buyer's representative could only complete the procedure on other equipment of the same model or be regarded as a waiver of it.

The Seller shall provide the Buyer with the inspection report obtained according to the requirements stipulated in the contract, and if the inspection results meet the requirements, it shall be deemed that the contractual equipment has passed the inspection. The Buyer and the Seller shall then sign the acceptance confirmation.

Technical Documents

- **Operation Manual * 1 Copy**
- **Programming Manual * 1 Copy**
- **Mechanical Manual * 1 Copy**
- **Electrical Manual * 1 Copy**

Seal and Signature

■ **The Seller**

■ **The Buyer**