

SM325 5 Axis Cnc Swiss Type Automatic Lathe Automatic Feeders

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Lu Young
- Model Number: sm325
- Minimum Order Quantity: 1set
- Price: \$39000-\$55000
- Packaging Details: Plywood box
- Delivery Time: 30 days
- Supply Ability: 100sets per month



Product Specification

- Stroke: 280mm
- Category: Swiss Type Cnc Lathe Machine
- Machine Name: SM325 Swiss Type Cnc Lathe Machine
- Machine Size: 2581*1563*1791mm
- Max Maching Diameter: 32mm
- Sub Spindle Motor: 1.5/2.2
- Spindle Motor: 5.5/7.5
- Highlight: 5 axis cnc Swiss Automatic Lathe,
SM325 cnc Swiss type Automatic Lathe



More Images



Product Description

SM325 5axis cnc Swiss type Automatic Lathe Automatic Feeders



Product Description:

- 1) Competent in machining external circles, drilling, boring, end face turning, threading, grooving, cutting, tapping and other processes of parts.
- 2) Equipped with horizontal and vertical rotary power tools and sub-spindle rotary power tools, the machine tool should have the ability of milling (such as keyways, planes, curved surface contours, etc.) compound processing; after the parts are cut off, the sub-spindle can grab the parts and complete the back drilling, boring, milling, end face eccentric processing and other processes on the cut surface of the parts.
- 3) Equipped with automatic feeders and long/short parts catchers and other automation devices to achieve the goal of "one person, multiple machines" with one person operating and multiple machines being watched over.

Features:

1. Powerful whirlwind milling processing capability:

For bone screws, lead screws, worms, and screw parts, high-precision spiral grooves need to be processed, and the surface roughness of the spiral grooves needs to reach $Ra0.8\mu m$.

A thread processing method that requires high machine tool motion accuracy and good dynamic stability is required. The Sm325 CNC Swiss-type machine tool is equipped with a whirlwind milling machine on the transverse power tool part. The transverse power tool drives the carbide forming tool to rotate at high speed (main motion) through the cutter head, and the machine tool spindle rotates to drive the workpiece to rotate slowly (auxiliary motion). The Z1 axis moves along the workpiece axially according to the workpiece pitch or lead (feed motion), and the whirlwind milling X1 moves (cutting motion) to process high-precision spiral grooves.

2. High-rigidity turning and milling composite processing capability:

Figure 1 shows parts with larger diameter specifications used in communications, home appliances, electronics, toys and other industries. The process is complex and the precision requirements are high. It requires turning and milling composite processing and a large amount of cutting. The Sm325 CNC Swiss-type machine tool can process to size with one cut. The traditional processing method is to use CNC lathes, machining centers (or milling machines, drilling machines) and multiple machine tools and multiple processes to complete the processing. The number of equipment required is large, the production

efficiency is low, and the processing accuracy of the parts after the workpiece is clamped twice is difficult to guarantee.

Figure 1: Typical parts in the communication, home appliance, electronics, and toy industries (diameters are $\Phi 20$ to $\Phi 32\text{mm}$) SX325 CNC Swiss-type lathe has high rigidity turning and milling, and has a single clamping to achieve high rigidity of the workpiece, turning the outer circle, turning the end face, turning the thread, cutting the groove, cutting and transverse milling, drilling, tapping, and drilling, tapping, boring and other composite processing capabilities.

3. Processing capabilities of precision slender shaft parts:

Figure 2 shows high-precision, slender shafts used in hydraulics, auto parts, medical, aviation, aerospace, optics and other industries.

Figure 2: Typical parts in the hydraulic, auto parts, medical, aviation, aerospace, and optical industries (diameters from $\Phi 20$ to $\Phi 32\text{mm}$)

For such slender shaft parts with a length/diameter ratio of more than 6, it is very difficult to process them on ordinary CNC lathes, and it is difficult to guarantee accuracy and efficiency. Because the Xinankai CNC longitudinal cutting automatic lathe (CNC Swiss-type lathe) adopts unique processing technologies such as high-speed synchronous guide sleeves, the cutting parts of the workpiece and the tool are always supported by the guide sleeves, so it can easily process ultra-slender shaft parts with a diameter of $\phi 5$ to $\phi 32\text{mm}$ and a length of less than 280mm.

4. Dual-spindle design for back processing and synchronous processing after cutting:

For parts that require no convex and concave defects at the center of the rear end face of the workpiece after cutting, or slender shaft parts that require the main and sub-spindles to clamp and rotate synchronously, as well as parts that require milling, drilling, boring, tapping, etc. on the cut surface, the dual-spindle model is fully competent. In addition, the main/sub-spindle can be controlled synchronously or independently.

Both models appraised this time are models with the above functions.

5. Automatic loading of blanks and automatic unloading of finished products:

By configuring a bar feeder for feeding and a short/long piece receiver for receiving, the machine tool can realize the "one person, multiple machines" mode of one person operating and multiple machines taking care of, which is of great help to improve the automation of equipment and save a lot of human resources for enterprises.

In addition, the "CNC longitudinal cutting automatic lathe (CNC Swiss-type lathe)" model also has the following outstanding features:

- 1) Linkage interpolation function of multiple motion axes: to effectively improve processing efficiency and meet the processing of complex parts;
- 2) High-speed synchronous rotating guide sleeve: to meet the needs of high-speed processing;
- 3) Sufficiently high precision: to meet the increasingly high precision requirements of parts such as aviation, precision instruments, and communication equipment.

Technical Parameters:

Describe			Unit	Specifications
Processing capacity	Max machining diameter		mm	32
	Stroke		mm	280
	Main Spindle RPM		rpm	8000
	Sub Spindle RPM		rpm	8000
	Cross Driven Tools RPM		rpm	5000
	Main/Sub Spindle CS axis indexing minimum unit		°	1/1000(0.001)
	Rapid Traverse Rate	X1/Z1 axis	m/min	24
		Y/X2/Z2 axis	m/min	32
Arrangement of tools	O.D Tools		ea	6
	Front Work Tools		ea	5
	Cross Driven Tools		ea	4
	Back end tools 4 axis(fixed)		ea	4(fixed)
	O.D Tools specification		mm	□16×16
	Front Work Tools diameter		mm	20
	Power Tool Chuck Specifications		mm	ER16

Motors	Spindle motor		kw	5.5/7.5
	Sub Spindle motor		kw	1.5/2.2
	Servo axis motor		kw	0.75
	Cross Driven Tools motor		kw	0.55/1.1
	Lubrication pump motor		w	100
	Coolant motor		kw	0.9
Others	Coolant tank capacity		L	200
	Lubrication tank capacity		L	1.8
	Height from floor to spindle center		mm	1000
	Floor space	(L)	mm	2581
		(W)	mm	1563
		(H)	mm	1791
	Mass of machine		kg	3800
	CNC control unit		Set	FANUC oi TF-PLUS

Applications:

One of the key advantages of the SM325 CNC Lathe Machine is its sub spindle, which makes it ideal for swiss type CNC lathe sub spindle applications. This feature allows for more complex machining operations to be performed, which can save time and increase efficiency. Additionally, this machine can also be used as a swiss lathe with bar feeder, which is perfect for applications that require the production of small, precision parts.

The SM325 CNC Lathe Machine is also capable of handling a wide range of materials, including aluminum, brass, and steel. This makes it a versatile option for many different industries, such as aerospace, automotive, and medical. It is also suitable for both low and high volume production runs.

Another benefit of the SM325 CNC Lathe Machine is its user-friendly interface, which allows for easy programming and operation. This feature makes it an excellent choice for businesses that want to streamline their manufacturing processes and reduce production time and costs. The machine's advanced control system ensures precise machining, resulting in high-quality parts.

In summary, the SM325 CNC Lathe Machine by Lu Young is a reliable and versatile option for any business that requires precision machining. Its sub spindle makes it suitable for swiss type CNC lathe sub spindle applications, while its bar feeder makes it an excellent choice for swiss lathe applications. With its user-friendly interface and advanced control system, this machine is a smart investment for any manufacturing business.



Medical parts processing



Electronic communication parts



Precision parts processing



Mechanical parts processing

Customization:

Our customization services include the option to add a bar feeder, turning it into a Swiss lathe with bar feeder. We can also tailor the machine to become a Swiss Type CNC Turning Lathe Machine or Swiss Type 2 Spindle Lathe to suit your manufacturing needs.

Support and Services:

The CNC lathe machine product comes with comprehensive technical support and services to ensure optimal performance and minimal downtime. Our team of experienced technicians is available for phone and email support to help troubleshoot any issues that may arise. Regular maintenance and repair services are also available to keep the machine running smoothly and extend its lifespan. We also provide software updates and upgrades to ensure the machine stays up-to-date with the latest technology. Contact us for more information on our technical support and services for the CNC lathe machine product.

Packing and Shipping:

Product Packaging:

The CNC lathe machine will be securely packed in a wooden crate to prevent damage during transportation.

The crate will be properly labeled with the product name and handling instructions.

All necessary accessories and manuals will be included in the crate.

Shipping:

The CNC lathe machine will be shipped via a reliable and reputable shipping company.

The shipping costs will be calculated based on the destination and weight of the crate.

The estimated delivery time will be provided to the customer upon placing the order.

The customer will be notified when the product is shipped and provided with a tracking number to monitor the shipment.

FAQ:

A: The Brand Name of the CNC lathe machine is Lu Young.

Q: What is the Model Number of the CNC lathe machine?

A: The Model Number of the CNC lathe machine is sm325.

Q: Where is the CNC lathe machine manufactured?

A: The CNC lathe machine is manufactured in China.

Q: What type of materials can be machined using the Lu Young sm325 CNC lathe machine?

A: The Lu Young sm325 CNC lathe machine can machine a wide range of materials including metals, plastics, and composites.

Q: What is the maximum machining diameter for the Lu Young sm325 CNC lathe machine?

A: The maximum machining diameter for the Lu Young sm325 CNC lathe machine is [insert diameter here].



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