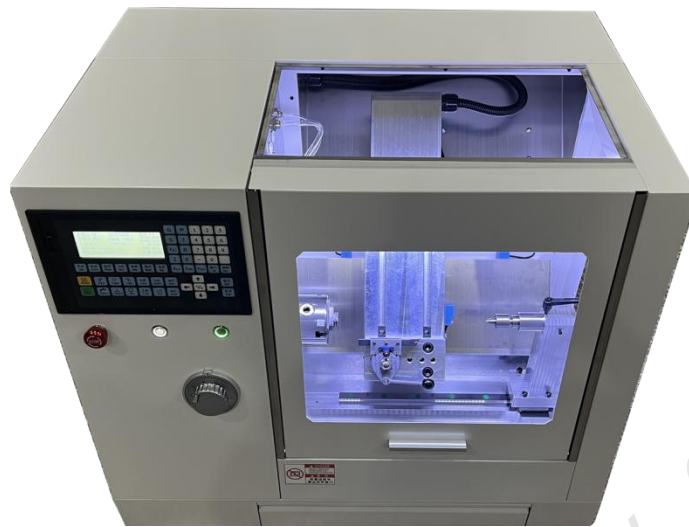


Desktop Lathe One Intro



1. Overview

Desktop Lathe One is a desktop CNC lathe with compact dimensions and powerful turning capability. The spindle adopts 750w high power, the drive uses 100w servo motor, the machining accuracy is as high as 0.02mm. offline CNC system, panel operation, simple and efficient. Can process a variety of conventional materials, such as aluminum alloy, copper alloy, iron and other metals, plastic, wood, stone, wax and other non-metallic materials. Ideal for small businesses, individual fabricators, educational institutions and laboratories.

2. Features

- 2.1. High performance spindle: 750w high power, 2800 rpm high speed.
- 2.2. High-precision accessories: servo motor + ball screws + Hiwin linear guides
- 2.3 Sheet metal chassis: dustproof and noise reduction, waterproof treatment of key components.
- 2.4. Simple operation: CNC operation panel, electronic handwheel.
- 2.5. Low-cost manufacturing, very suitable for aluminum alloy, iron material processing
- 2.6. Professional technical services: CAM programming simulation guidance, on-machine training, customized fixtures, customized accessories upgrade, etc.

3. Specs


Physical dimensions		Bed	
Equipment Size	W790×D600×H660mm	Workbench Width	130mm
Packaging Size	W850×D650×H700mm	Workbench Length	350mm
Weight (Net/Gross)	80/100kg	X-axis Travel	130mm
Machining Accuracy	0.02mm	Z-axis Travel	150mm
Repeat Positioning Accuracy	0.01mm	Enclosure	Stainless steel & galvanized sheet
Chuck Diameter	80mm	Max Workpiece Length	300mm
Tailstock Length	150mm	Max Cutting Length	150mm
Speed		Tailstock Travel Distance	150mm
Spindle Max Speed	2800 rpm	Frame	6061-T6
Max Move Speed	3000 mm/min	Power	
Max Feed Speed	3000 mm/min	Spindle Power	750W-1500W (可选)
Tool		XZ Motor	Servo Motor 100W
Tool Diameter	10×10mm&16×16mm	Machine	Φ80×150mm
Tailstock taper	MT1	Voltage	100-240VAC,50/60Hz
Tailstock Sleeve Diameter	20mm	Maximum power	1500w,220V
Chuck Through Hole	18mm	Controller	YH-CNC100T
Tool position	Quick-change toolholder &Tool row type multi-tool position	Connection	USB

4. NC System

1.GM code programming 2.PLC programming 3.0.001mm interpolation accuracy
 4.Reverse gap compensation, tool compensation 6.S-type, exponential acceleration and deceleration control to adapt to high-speed, high precision machining 6.Support handwheel 7.Support thread cutting, electric tool holder 8.Abundant external push-button input interface to facilitate the user's debugging. Support handwheel

5. Standard & Optional

5.1. Standard equipment list

No.	Mane	Image	Description	Quantity
1	Equipment	/	Desktop Lathe One	1 PCS
2	Turning Tool 10×10mm		Internal threading cutter 95° internal bore cutter 93° external turning tool External thread cutter Pointed tool 95° external turning tool Cut-off slotting tool 95° back turning tool 45° external turning tool	9 PCS
3	Power Cord	/	Main power Supply	1 PCS
4	MPG	/	Operation axis movement	1 PC S
6	Wrenches Chuck	/	Wrenches, Tool Holder Wrenches	1 PCS

5.2. Options and upgrades

No.	Sort	Mane	Description	Quantity
1	Spindle	1500w	Turning steel	1 PCS
2	Tool Holder	Multiple Specifications	Ranging from 70 to 100	10 PCS
3	Tool Shank	Multiple Specifications	Ranging from 30 to 60	1 PCS

6. Structure



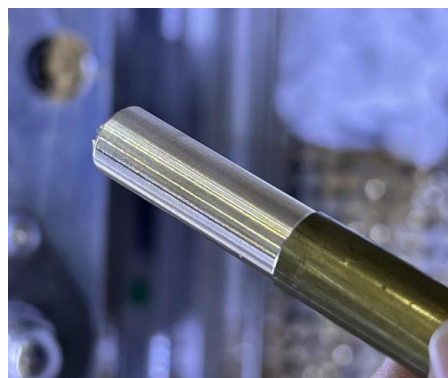
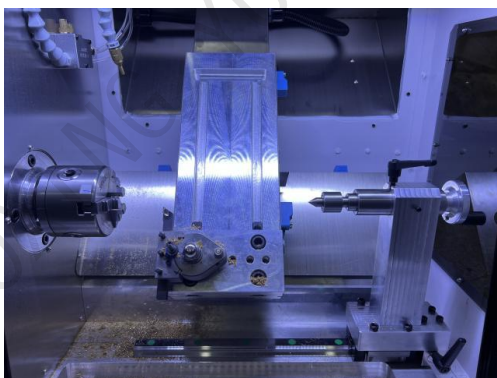
7. Warranty

7.3. Warranty period is 1 year, after the warranty can provide cost replacement parts

7.4. In case of natural damage during the warranty period, free parts and remote guidance will be provided.

7.5. Incorrect operation, unauthorized disassembly of the product, man-made vandalism are not warranted.

8. Details



9. Q&A

9.1. Advantages of inclined-rail lathes?

High precision, good rigidity, easy chip removal, more tool positions

9.2. What materials can be processed?

Copper alloy, aluminum alloy, stainless steel (open coolant), plastic, etc.

9.3. Recommended cutting depth for aluminum alloy?

0.5mm

9.4. What kind of situation is the tailstock ejector pin used for?

Workpiece length over 100mm

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