



NANJING JIANKE MACHINERY CO.,LTD

ZR20-3Ⅱ Swiss CNC lathe

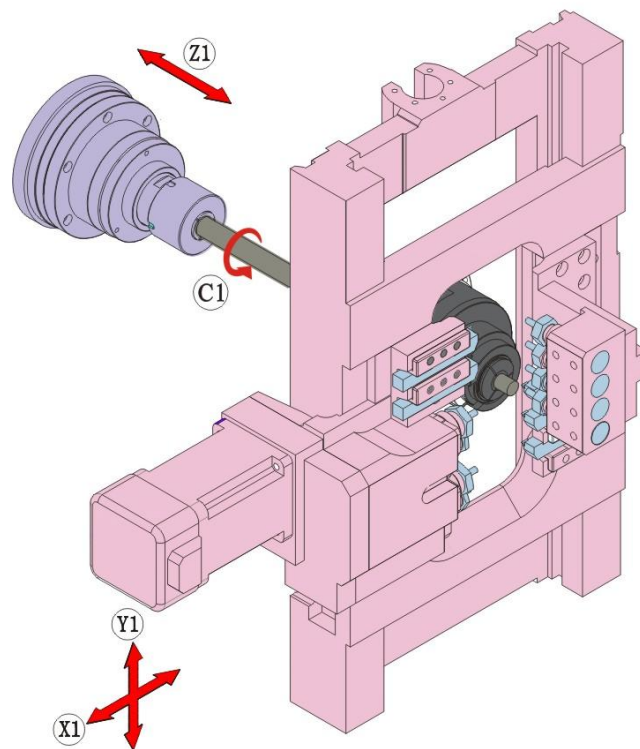
Products description and parameter

ZR20-3 ⅡThe detail design of Swiss CNC lathe

A、 Appearance



B、 Mechanical tool post structure diagram



1、Description

Brief Introduction: ZR series are Swiss high-speed precision Swiss CNC lathes, which have the ability of turning and milling. They are high-precision, wide-range and practical processing equipment. This type of machine tool is suitable for "slender shaft" parts with a relatively large length and diameter. High-volume, multi-variety, and high-precision machining tasks of "small" and "abnormal" parts. Widely used in various high-precision, multi-batch, complex-shaped shaft parts in medical, aviation, aerospace, military, automobiles, motorcycles, communications, refrigeration, optics, home appliances, microelectronics, electronics, watches, mobile phones and other industries And complex machining of precision and small parts.

Functions : ZR20-3 II Swiss CNC lathe could load $\Phi 3\text{mm} - \Phi 20\text{mm}$ bar material; equipped with 5 external turning tools, 4 end face machining tools, 4 side power tool heads, which can be clamped at one time: turning external circle, cone, arc , Curved



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surface, internal and external threads, milling grooves, cutting slot, spiral groove, end face side drilling, boring, end face side tapping, lettering and other compound processing procedures, which can reduce the number of clamping times and shorten the product manufacturing process chain , Improve processing accuracy and production efficiency.

2、Technical Parameter

Single spindle Swiss CNC lathe ZR20-3II			
System	Taiwan SYNTEC	Syntec21TB-E	
	Control channel	Single Channel	
	Minimum setting unit	0.001mm	
Machining	Max processing Dia	20 mm	
	Max processing length at one time	With guide bush	90mm
		Without guide bush	1:2.5D (Dia:Length)
	Main spindle max drilling Dia	Axial	Φ10mm
	Main spindle max tapping Dia	Axial	M8
	Power head max drilling Dia	Radial	Φ8mm
	Power head max tapping Dia	Radial	M6
Tool	Tool seat arrangement	Double tool holders from both sides	
	Main spindle turning tool	5 Pieces	12X12mm



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	Main spindle side roatry power head	4 Pieces	2 Pieces ER11+2 Pieces ER16
	Main spindle end face fixed tool seat	4 Pieces	ER11/ER16
Main Spindle	Main/sub spindle type	Built-in oil-cooled electric spindle	
	Main/sub spindle speed	10000rpm/min	
	Main/sub spindle index	0.001°	
	Main/sub spindle hole Dia	22mm	
	Main/sub spindle center height	990mm	
Motor power	Main Spindle power (rated/maximum)	2.2kw/3.5kw	
	Side rotary head motor power	0.75kw	
	Side rotary head speed	6000rpm/min	
	No. of moving axis	3 axis	X、 Y、 Z
	Rapid feeding speed	X、 Y	24 m/min
		Z	28m/min
	Moving axis motor power	0.75kw	
Other	Parts receive device	Short material	Stretch parts receiver
		Long material	Stretch parts holder device



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	Power capacity	10.5kw
	Air pressure	Above 0.4MPa
	Cutting oil tank capacity	175L
	Machine size(L*W*H)	1.65mx1.4mx1.7m
	Lathe Weight	1785KG

3, Standard Accessories

No.	Name	Qty	Note
1	Protective cover	1	
2	Signage	1	Various warning signs, machine
3	Main spindle	2	Oil cooling electric spindle(Main
4	Turning tool row seat	2	Double tool holders on both sides
5	Side power tool holder	1	
6	Main spindle end face	1	
7	Live rotary guide bush	1	
8	Pneumatic system	1	Taiwan AIRTAG
9	cooling system	1	YUNHAI pump
10	Lubrication system	1	Japan HERG
11	Electrical System	1	Schneider
12	Material receive device	1	Material receive device /Long
13	Lathe lighting	1	DC24V
14	Three-color warning	1	



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15	Special tool box	1	Special tools included
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4、 Main accessory brand and place of origin

Name	Origin and Brand
Operation System	Taiwan SYNTEC
Spindle and Driver	Oil cooling electric spindle
Bearing	Japan NSK
Guide rail	Japan THK/Taiwan Hiwin/Taiwan PMI
Guide screw	Japan THK/Taiwan Hiwin/Taiwan PMI
Servo Motor	Taiwan SYNTEC
Motor driver	Taiwan SYNTEC
Electrical components	Germany Schneider
Lubricant system	Japan Herg
Relay	Japan Omron
Stroke switch	Japan Omron
Magnetic valve	Taiwan Airtag
Remarks: standard configuration, if the configuration needs to be changed due to	

5、 Controller system

Taiwan SYNTEC
Axis control, axis linkage
English/Metric Conversion
Pitch error compensation
Automatic operation, MDI operation, JOG feed
Dry run, single block, block skip, selective stop
G00 fast positioning



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Linear and circular interpolation (G01、 G02、 G03)
Programmable pause (G04)
Continuous feedrate override, JOG feedrate override
Constant line speed control
Decimal programming
Absolute value/incremental value programming
Canned cycle
Tool compensation
Status Display
Self-diagnostic display
Alarm and operation information display
Chinese/English display
8.4 "color LCD display

*** According to factors such as equipment upgrades/updates/optimizations, some of the above parameters and content may differ, Subject to the actual contract content**