



Sowin硕方

SHENZHEN SOWIN PRECISION MACHINE TOOL CO., LTD.

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SHENZHEN SOWIN PRECISION MACHINE TOOL CO., LTD.

Company Profile

Shenzhen Sowin Precision Machine Tool Co., Ltd was founded in 2010, locating in Shenzhen city, Guangdong Province, which is a national high-tech enterprise specializing in research and development of CNC Swiss type automatic lathe and slant bed CNC turn mill lathe, and a member of Shenzhen Machinery Alliance. SOWIN always focus on becoming a world-class equipment manufacturer and service provider, and the core products of SOWIN are high precision, high stability, high reliability CNC Swiss type automatic lathe and slant bed CNC turn mill lathe. In the past years efforts and technological innovation, SOWIN products always take the leading position in China, providing a large number of efficient processing solutions for aviation, automobile, medical equipment, 3C, household appliances, new energy vehicles, hardware, electric tools and other industries at home and abroad.

SOWIN with advanced intelligent processing equipment as the manufacturing machine tool, includes Japan Mitsubishi Heavy Industries Vertical planomiller, Japan OKUMA-BYJC large horizontal and vertical machining centers, HAAS vertical processing center, Taiwan KENT Surface Grinding Machine, ect which ensure SOWIN's each product with high quality and high precision components and parts.

Now, SOWIN has developed C series and E series CNC Swiss type automatic lathe, and slant bed CNC turn mill lathe. SOWIN products are exported to Italy, Russia, Thailand, Malaysia and other overseas countries. The domestic sales network covers most provinces, cities and regions in China. Products is widely used by customers and win unanimous praise from customers.



Sowin Culture



Sowin Honour



Efficient and Independent R&D Team

SOWIN has a high level research and development team, after years of dedicated research, breakthrough many technical difficulties, which is the first in China to develop the CNC Swiss type automatic lathe using electric spindle, and has obtained a number of inventions and new utility technology patents, thus breaking the monopoly of the same kind of lathes abroad and gradually replacing the imported lathes.







Advanced Processing Equipment

"A workman must sharpen his tools if he is to do his work well". SOWIN has advanced intelligent processing equipment as the manufacturing machine tools to ensure each product with high quality and high precision components and parts.

Japan Mitsubishi Vertical Planomiller



Japan OKUMA-BYJC Horizontal and vertical Machining Centers



Rigorous Manufacturing Process

To guarantee the quality of product assembly process, SOWIN executes standardized manufacturing and integrates product process inspection into the whole production process.

The scraper of main mounting surface











High Precision Testing Instrument

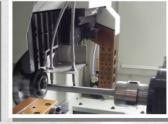
Strict Testing Procedure

SOWIN establishes and implements the most strict internal quality control standard to realize the strict monitoring on the whole process of machine tool design and production, e.g. 45 inspection and testing items, 632 quality control key points, 48-hours running in load processing test, three-coordinate measuring instrument, laser interferometer (RENISHAW brand, UK), field dynamic balancing instrument (SIGMA brand, Japan), eddy-current transducer-spindle designed-temperature rising test ISO230-3 ect., all of these to guarantee the accuracy control of lathes' each installation processes .









Comprehensive Service System

The Pre-sales Service Department aims to provide comprehensive machining solution for customers, and help customers to study and analyze the optimal products processing technology, and undertake the processing of customers' samples. It also serves as customer's on-site operation experience center, and has cultivated a large number of technical professionals for customers in various fields for many years.

Adhering to the business philosophy -- "All for Customers", the After-sales Service Department always carries out the service tenet-quick response, timely dispose and thorough settlement.



Pre-sales Service Customer Experience Center



Quick Response After-sale Service Team

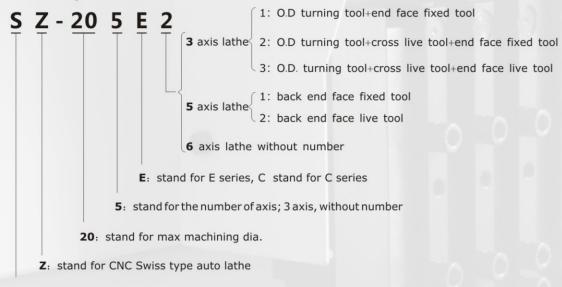


05 Sowin 硕方

Product Overview

CNC Swiss type automatic lathe named method

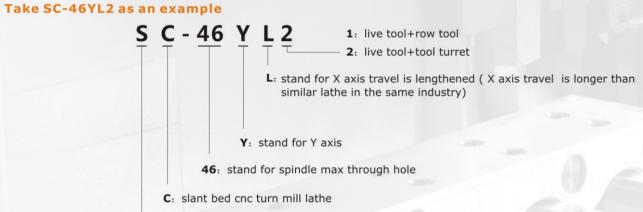
Take SZ-205E2 as an example



S: stand for SOWIN

S: stand for SOWIN

Slant Bed CNC Turn Mill Lathe



Product

		12E Type	SZ-12E2、SZ-125E1、SZ-125E2			
CNC Swiss Type Automatic Lathe	E series (High-end)	20E Type	SZ-20E2、SZ-20E3、SZ-205E1、SZ-205E2、SZ-206E			
		25E Type	SZ-25E2、SZ-25E3、SZ-255E1、SZ-255E2、SZ-256E			
			SC-46L			
Slant Bed CNC Turn Mill Lathe			SC-46YL1			
			SC-46YL2			

E Series CNC Swiss Type Automatic Lathe

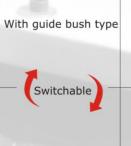
Standard lathes use FANUC system



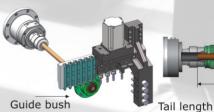
- · Live heads in main spindle and sub spindle have flexible expansibility.
- With guide bush mode and non guide bush mode can be freely switched.
- The front of the spindle is designed to 3-axis support type that can improve the rigity.
- Install SOWIN new generation self-developed oil-cooled electrical spindle.
- Enlarged divided type chip collector, residual heat from cuttings cannot be transmitted to the lathe body which can provide the lathe thermal stability.

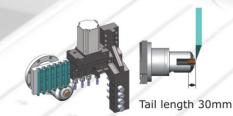


Internal oil-cooled electric spindle



Non guide bush type

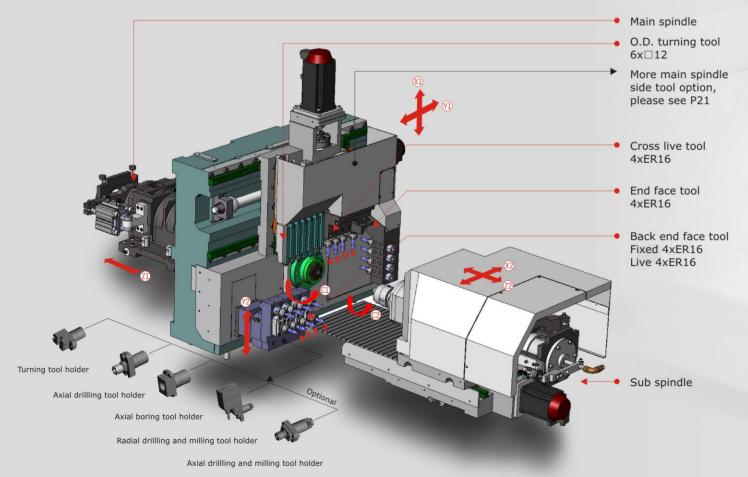


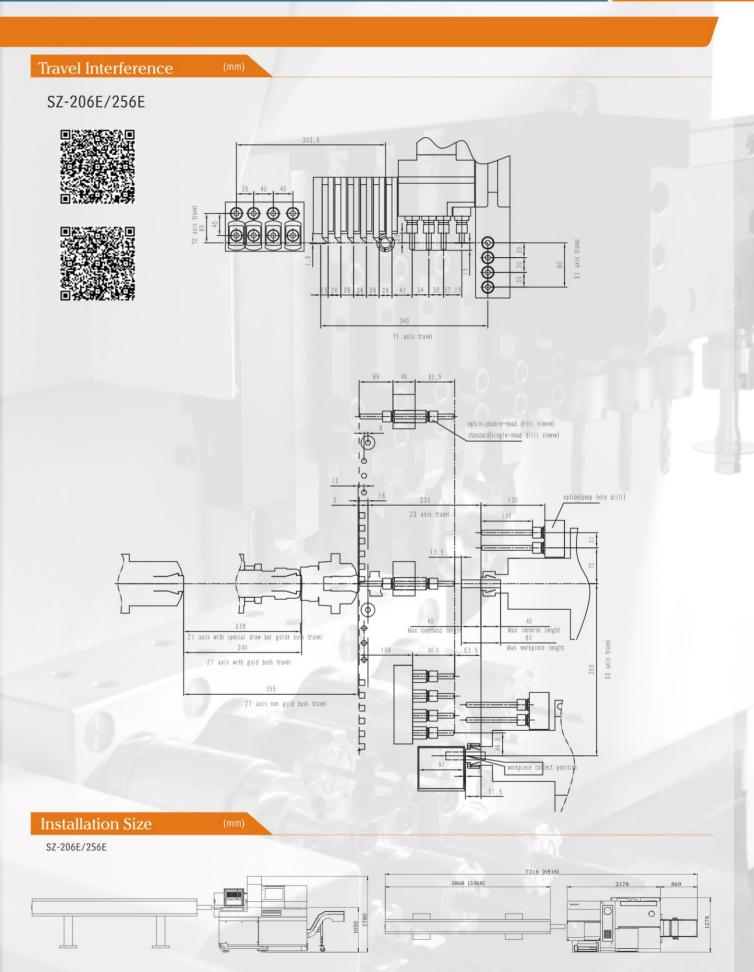


SZ-206E/SZ-256E (6 axis, dual spindles)



- The tool holder in the sub spindle side with Y2 axis, it can install two row cutters.
- The live head in the main spindle and sub spindle can expand many tool holders.

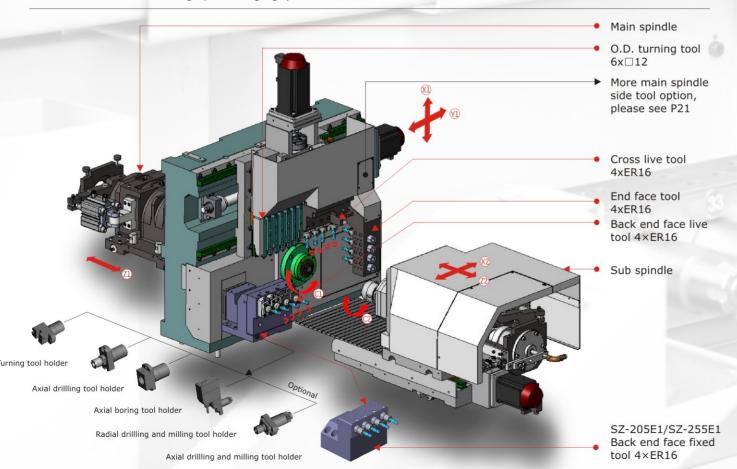


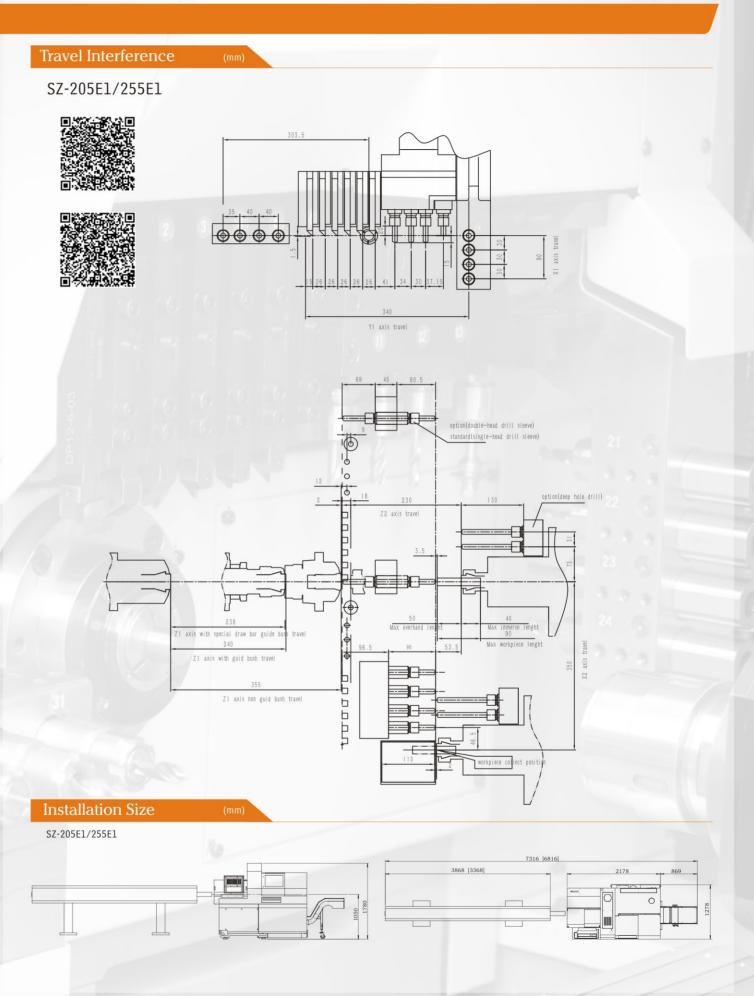


SZ-205E1/ 255E1, SZ-205E2/SZ-255E2 (5 axis , dual spindles)



- The tool structure in main spindle side is same with 6 axis lathe.
- In the back side has a row tool holder, E1 tool holder for fixed tool, E2 tool holder for fixed and live tool that can be free combined.
- Back end face tool with high processing rigity.

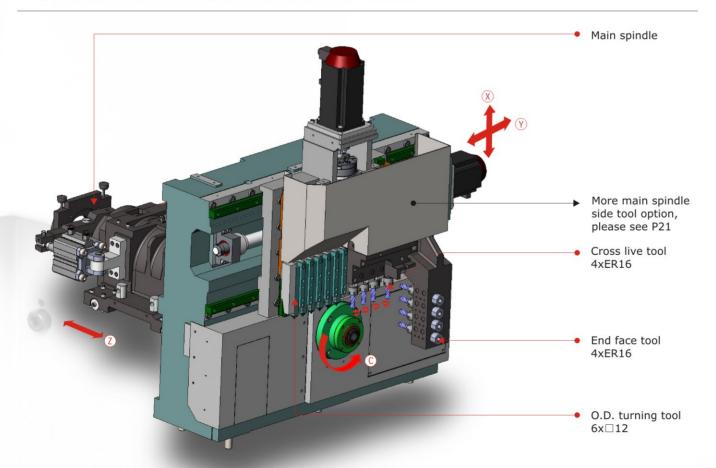


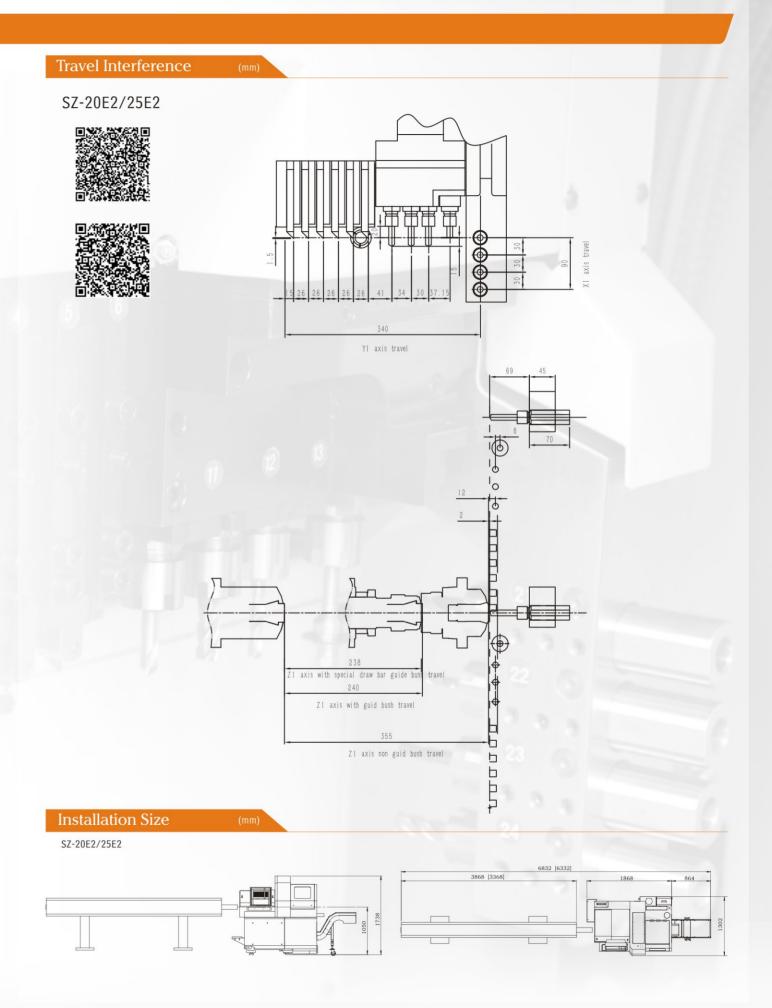


SZ-20E2/SZ-25E2, SZ-20E3/SZ-25E3 (3 axis , single spindle)



- Mid to high-end lathe in 3 axis Swiss type lathes.
- With guide bush mode and non guide bush mode are freely switchable.

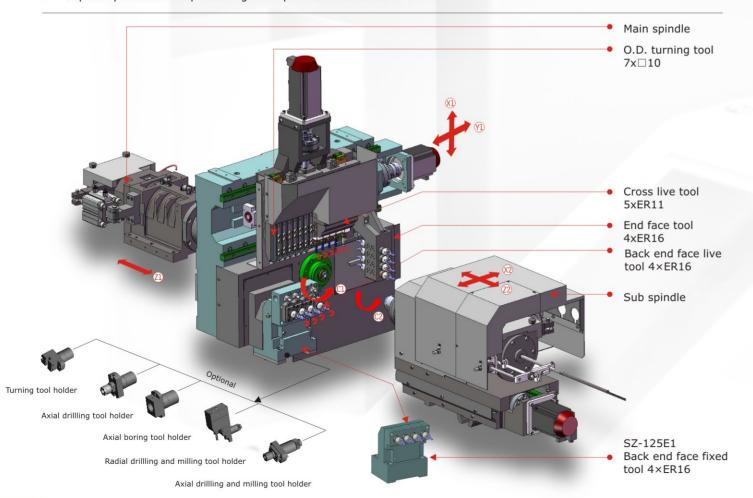


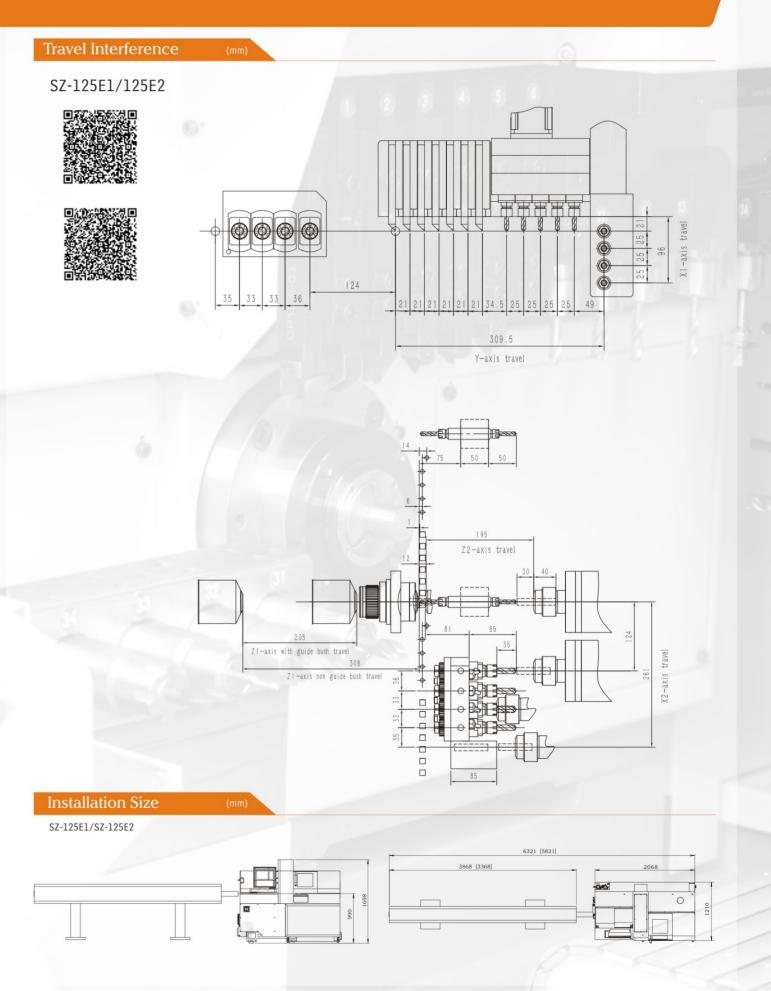


SZ-125E1/SZ-125E2 (5 axis , dual spindles)



- Main spindle with high rotation speed, small vibration.
- Especially suitable for processing small parts and connectors.

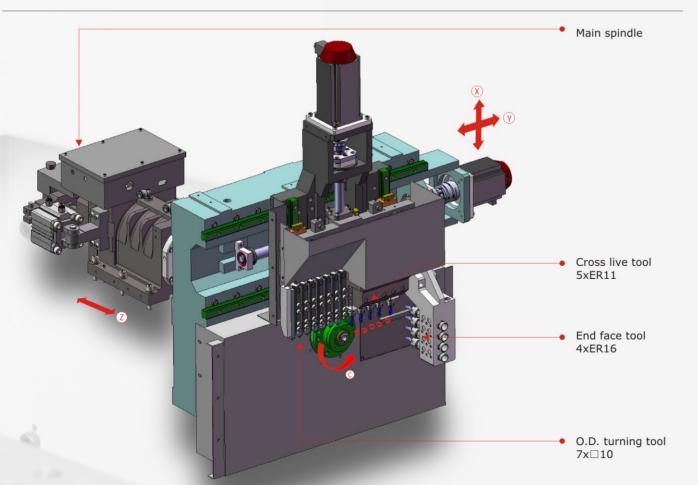


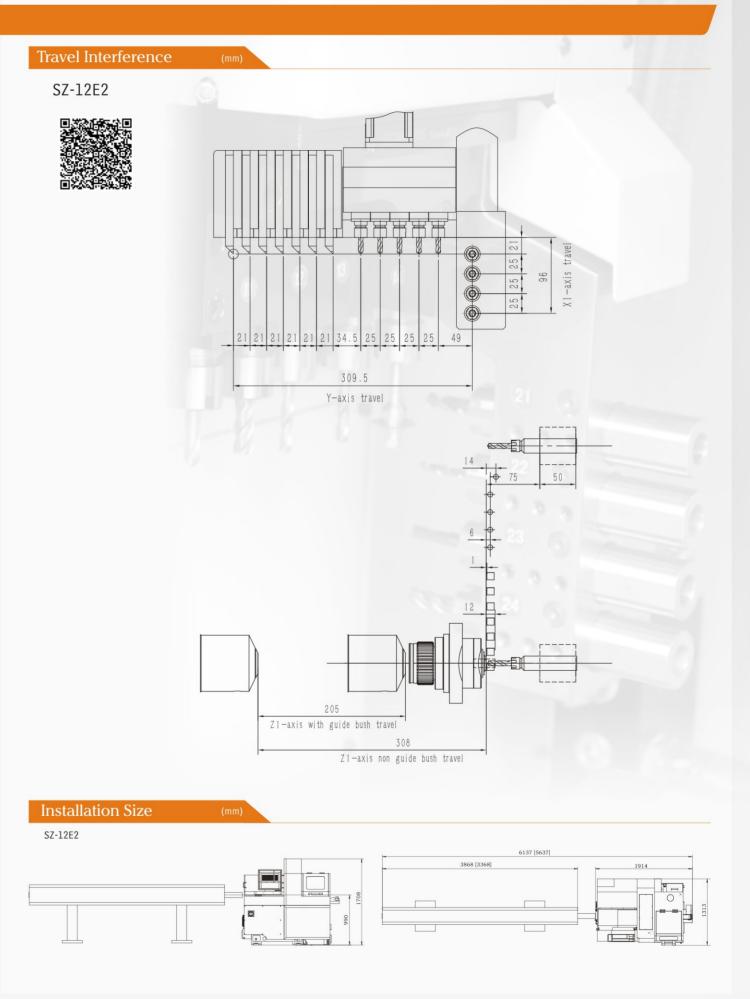


SZ-12E2 (3 axis, single spindle)



- The single spindle lathe of 12 series.
- Economical Swiss type lathe for processing connectors.





20E/25E Series Main Spindle Side Non-standard Tool Holder Option

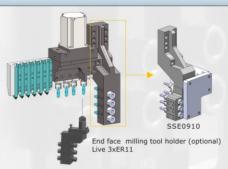


20E/25E series main spindle side non-standard tool holder option

O.D.Turning tool	Cross live tool	End face tool	
514T4.5		4XER16(Fixed)	standard
6X⊔12	3XER16+*1XER16/4XER16	3XER16(Fixed)+3XER16(live)	optional
		4XER16(Fixed)	optional
5X⊔12	4XER16+*1XER16	3XER16(Fixed)+3XER16(live)	optional
		4XER16(Fixed)	optional
4X⊔12	6XER16	3XER16(Fixed)+3XER16(live)	optional
6X□12	2XER11+*3XER16		optional
	6X□12 5X□12 4X□12	6X□12 3XER16+*1XER16/4XER16 5X□12 4XER16+*1XER16 4X□12 6XER16	6X□12 3XER16+*1XER16/4XER16 4XER16(Fixed) 5X□12 4XER16+*1XER16 4XER16 4XER16(Fixed) +3XER16(live) 4XER16(Fixed) 3XER16(Fixed) 4XER16(Fixed) 3XER16(Fixed) +3XER16(live) 4XER16(Fixed) 4XER16(Fixed) 4XER16(Fixed) 3XER16(Fixed) 4XER16(Fixed)

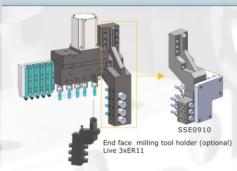
^{*} axial drillling and milling tool holder

No.1



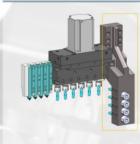
O.D. turning tool	6X□12	
	3XER16+*1XER16	
Cross live tool	4XER16	
	4XER16(Fixed)	
End face tool	3XER16(Fixed)+3XER16(live)	

No.2



O.D. turning tool	5X□12	
Cross live tool	4XER16+*1XER16	
7	4XER16(Fixed)	
End face tool	3XER16(Fixed)+3XER16(live)	

No.3





O.D. turning tool	4X□12
Cross live tool	6XER16
	4XER16(Fixed)
End face tool	3XER16(Fixed)+3XER16(live)

No.4





O.D. turning tool	6X□12	
Cross live tool	2XER11+*3XER16 (Depends on specific situation)	SSC1710
End face tool	More detail,please find on Page21	

Extend Tool Holder With SSC1710 Live Head

Angular drilling head



- Speed ratio 1/1
- Max rotary speed 6000RPM
- Rotatable degree 0-90
- Main spindle side collet ER16 sub spindle side collet ER11
- Applicable lathe model 20E/25E/205E/255E/206E/256E



Whirling threading unit

- Speed ratio 1/1
- Max rotary speed 6000RPM
- Max threading M10
- Angle adjustment range ±15°
- Applicable lathe model 20E/25E/205E/255E/206E/256E

Polygon maker

- Speed ratio 1/1
- Max rotary speed 3000RPM
- Applicable lathe model 220E/25E/205E/255E/206E/256E



Gear hobbing tool holder

- Speed ratio 1/1
- Max rotary speed 6000RPM
- Angle adjustment range ±20°
- Applicable lathe model 20E/25E/205E/255E/206E/256E



End face drilling tool holder

- Max outside dia. of blade ϕ 95
- Applicable lathe model 20E/25E/205E/255E/206E/256E



Front eccentric tool holder

- Speed ratio 1/1
- Max rotary speed 6000RPM
- Collet ER16
- Applicable lathe model 20E/25E/205E/255E/206E/256E



360 degree front rotation tool holder

- Speed ratio 1/1
- Max rotary speed 6000RPM
- Angle adjustment range ±180°
- Applicable lathe model 20E/25E/205E/255E/206E/256E



Saw blade holder

- Speed ratio 1/ 0.374
- Max rotary speed 4000RPM

- Applicable lathe model 20E/25E/205E/255E/206E/256E

Extend Tool Holder With SSC1710 Live Head



Automatic bar feeder

Automatically feed, when a bar material is used up, the new bar can be automatically replaced.



Chip conveyor

The processing chip can be discharged at any time.



Oil mist collector

To collect the oil mist that produced in the processing area, usually accompany with a high-pressure pump.



High pressure pump

It's used to extremely difficult workpiece processing, such as aluminum, red copper, stainless steel, ect. To improve the cooling effect and change processing chip shape. High pressure pump can be selected according to the actual requirement; usually it has 30, 60 and 100 bar.



Workpiece belt conveyor

The finished workpiece can be transmitted from this belt conveyor.



Cut-off tool breakage detector

The the cut-off tool breakage can be detected when it breaks accidentally.

E Series CNC Swiss Type Automatic Lathe Technical Specifications

Model		SZ-12E2	SZ-125E1	SZ-125E2	SZ-20E2	SZ-20E3	SZ-205E1	SZ-205E2	SZ-206E	SZ-25E2	SZ-25E3	SZ-255E1	SZ-255E2	SZ-256E
		3axis, single spindle	5axis, dual spindle	5axis, dual spindle	3axis, single spindle	3axis, single spindle	5axis, dual spindle	5axis, dual spindle	6axis, dual spindle	3axis, single spindle	3axis, single spindle	5axis, dual spindle	5axis, dual spindle	6axis, dual spindle
Cutting-tool layout sketch		* ·		*****	**	**				**	**			
NC device		FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF
Power source		200VAC	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC
Lathe rated power	Kw	8	11	11	8	8	11	11	11	8	8	11	11	11
Machining range														
Max machining dia.	mm	Ф12	Ф12	Ф12	Ф20	Ф20	Ф20	Ф20	Ф20	Ф26	Ф26	Ф26	Ф26	Ф26
Main spindle max clamping dia.	mm	Ф12	Ф12	Ф12	Ф20	Ф20	Ф20	Ф20	Ф20	Ф26	Ф26	Ф26	Ф26	Ф26
Max feed length (once)	mm	205	205	205	Max 240	Max 240	Max 240	Max 240	Max 240	Max 240	Max 240	Max 240	Max 240	Max 240
Main/sub spindle	V	7.5/0.0	7.5/0.0	3.5.00.0	00/07	0.0/0.7	0.0.00 7	2007	0.0/0.7	0.0/0.7	0.0/0.7	0007	0007	0.0/0.7
Main spindle power	Kw	1.5/2.2	1.5/2.2	1.5/2.2	2.2/3.7	2.2/3.7	2.2/3.7	2.2/3.7	2.2/3.7	2.2/3.7	2.2/3.7	2.2/3.7	2.2/3.7	2.2/3.7
Sub spindle power	Kw	- #12	1.5/2.2	1.5/2.2	- May (\$0.7	- May 4 07	1.5/2.2	1.5/2.2	1.5/2.2	- May (27	- Nav. (\$27	1.5/2.2	1.5/2.2	1.5/2.2
Main spindle max through hole dia.	mm	Ф13	Ф13	Ф13	Max Φ27	Max Φ27	Max Φ27	Max Φ27	Max Φ27	Max Φ27	Max Φ27	Max Φ27	Max Φ27	Max Φ27
C axis resolution Main/sub spindle rev speed	rpm	C1 0.001°	C1/C2 0.001°	C1/C2 0.001°	C1 0.001°	C1 0.001°	C1/C2 0.001°	C1/C2 0.001°	C1/C2 0.001°	C1 0.001°	C1 0.001°	C1/C2 0.001°	C1/C2 0.001°	C1/C2 0.001°
Main/sub spindle rev speed Sub spindle max clamping dia.	mm	Max12000	Мах12000 Ф12	Max12000 Φ12	Max10000/12000	Max10000/12000	Max10000/12000	Max10000/12000	Max10000/12000	Max10000/12000	Max10000/12000	Max10000/12000	Max10000/12000	Max10000/12000
Sub spindle max cramping dia. Sub spindle max through hole dia.	mm	-	Ф13	Ф12		-	Мах Ф20 Мах Ф27	Max Φ20 Max Φ27	Мах Ф20 Мах Ф27	-		Мах Ф26 Мах Ф27	Max Φ26 Max Φ27	Мах Ф26 Мах Ф27
Main spindle max travel	mill		Ψ13	Ψ13			wdx ΨZ/	IVIdX Ψ2/	i∀ldx Ψ2/		-	IVIDX \\PSIZ/	ıvldX Ψ2/	Widx \PZ/
With guide bush	mm	205	205	205	240	240	240	240	240	240	240	240	240	240
Non guide bush	mm	308	308	308	355	355	355	355	355	355	355	355	355	355
Max tool installed qty.	pcs	16	20	20	14	16	22	22	26	14	16	22	22	26
OD Turning tool	pcs	10	20	20	14	10	22	22	20	14	10	22	22	20
Qty.xModel		7x□10	7x□10	7x□10	6x□12	6x□12	6x□12	6x□12	6x□12	6x□12	6x□12	6x□12	6x□12	6x□12
Cross live tool		/XL10	7X10	/XL10	OX L. 12	OX LIZ	0X□1Z	0X□12	UX LIZ	OX_IZ	OX L.IZ	OX L.IZ	OX LIZ	OX_IZ
Qty.xModel		5xER11	5xER11	5xER11	4xER16	4xER16	4xER16	4xER16	4xER16	4xER16	4xER16	4xER16	4xER16	4xER16
Drilling dia.	mm	Мах Ф7	Max Φ7	Max Ф7	Max Φ10	мах Ф10	Max Φ10	мах Ф10	Max Φ10	Max Φ10	Max Φ10	Max Φ10	Max Φ10	4xEK10 Мах Ф10
Tapping/Threading die dia.		Max M6	Max M6	Max M6	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8
Live tool rev speed	rpm	Max4000	Max4000	Max4000	Max4000	Max4000	Max4000	Max4000	Max4000	Max4000	Max4000	Max4000	Max4000	Max4000
Live tool power	Kw	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
End-face tool(Main spindle)	IVVV	0.70	0.70	0.75	0.7 0	0.70	0.75	0.70	0.75	0.50	0.7 5	0.75	0.75	0.70
Qty.xModel		4xER16	4xER16	4xER16	4xER16	3xER16	4xER16	4xER16	4xER16	4xER16	3xER16	4xER16	4xER16	4xER16
Fixed Drilling dia.	mm	Мах Ф10	Мах Ф10	Мах Ф10	Мах Ф10	Мах Ф10	Мах Ф10	Мах Ф10	Мах Ф10	Мах Ф10	Мах Ф10	Мах Ф10	Мах Ф10	Мах Ф10
Tapping/Threading die dia.		Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8
Qty.xModel		-		-	-	3xER16	-	-	-	-	3xER16	-		-
Drilling dia.	mm					Мах Ф8					Мах Ф8			-
Live Tapping/Threading die dia.						Max M6					Max M6			-
Live tool rev speed	rpm					Max6000					Max6000			
Live tool power	Kw					0.5					0.5			
Back end-face tool(Sub spindle)														
Qty.xModel		-	4xER16		-		4xER16		4xER16			4xER16		4xER16
Drilling dia.	mm	-	Мах Ф10				Мах Ф10		Мах Ф10		-	Мах Ф10		Мах Ф10
Tapping/Threading die dia.		-	Max M8	-	-	-	Max M8	-	Max M8	-	-	Max M8	-	Max M8
Qty.xModel		-		*4xER16	-			*4xER16	4xER16	-	-	-	*4xER16	4xER16
Drilling dia.	mm	-		Мах Ф10	-			Мах Ф10	Мах Ф10	-	-	-	Мах Ф10	Мах Ф10
Live Tapping/Threading die dia.		-	-	Max M8		-		Max M8	Max M8	-		-	Max M8	Max M8
Live tool rev speed	rpm	-	-	Max4000	-	-		Max4000	Max4000	-	-	-	Max4000	Max4000
Live tool power	Kw	-	-	0.75	-	7-2	-	0.75	0.75	-	-	-	0.75	0.75
Rapid feed speed	m/min	30(Z/Y)15(X)	30(Z1/Z2/X2/Y)15(X1)	30(Z1/Z2/X2/Y)15(X1)	30(Z/Y)24(X)	30(Z/Y)24(X)	30(Z1/Z2/X2/Y)24(X1)	30(Z1/Z2/X2/Y)24(X1)	30(Z1/Z2/X2/Y1) 24(X1),15(Y2)	30(Z/Y)24(X)	30(Z/Y)24(X)	30(Z1/Z2/X2/Y)24(X1)	30(Z1/Z2/X2/Y)24(X1)	30(Z1/Z2/X2/Y1) 24(X1),15(Y2)
eed motor power	Kw	0.75(Z/X/Y)	0.75(Z1/Z2/X1/X2/Y)	0.75(Z1/Z2/X1/X2/Y)	0.75(Z/X/Y)	0.75(Z/X/Y)	0.75(Z1/Z2/X1/X2/Y)	0.75(Z1/Z2/X1/X2/Y)	0.75(Z1/Z2/X1/X2/Y1) 0.5(Y2)	0.75(Z/X/Y)	0.75(Z/X/Y)	0.75(Z1/Z2/X1/X2/Y)	0.75(Z1/Z2/X1/X2/Y)	0.75(Z1/Z2/X1/X2/ 0.5(Y2)
Cutting oil pump power	Kw	0.35	0.75	0.75	0.35	0.35	0.75	0.75	0.75	0.35	0.35	0.75	0.75	0.75
Main/sub spindle cooling oil pump power	Kw	0.12	0.73	0.12	0.12	0.12	0.12	0.73	0.12	0.12	0.12	0.75	0.73	0.73
ubricating oil pump power	Kw	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Max collecting length of workpieces collect box	mm	50	80	80	50	50	90	90	80	50	50	90	90	80
Main/sub spindle center to the bottom of lathe body	mm	990	990	990	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Cutting oil tank volume	L	100	160	160	150	150	180	180	180	150	150	180	180	180
Net weight	Kg	1910	2500	2500	1950	1950	2300	2600	2700	1950	1950	2300	2600	2700
	9	1710	2068x1210x1698	2068x1210x1698	1868x1302x1738	1868x1302x1738	2178x1278x1780	2178x1278x1780	2178x1278x1780	1868x1302x1738	1868x1302x1738	2178x1278x1780	2178x1278x1780	2178x1278x1780

Standard configuration

Japan FANUC control system

10.4 inch Color LCD display

Main/sub spindle cooling system

Lricating system

Rotatory guide bush

Main/sub spindle air blowing device

LED working light

Electric leakage protection

Transformer

External light connector

3-colour tower light

HIWIN/PMI screw/guide rail

Cutting oil tank

Main/sub spindle collet 1pcs; guide bush 1 pcs

Tool cabinet

Optional configuration

Automatic bar feeder

Chip conveyor

Oil mist collector

High pressure pump

Long workpiece collector

Workpiece belt conveyor External working litht

Tap breakage detector

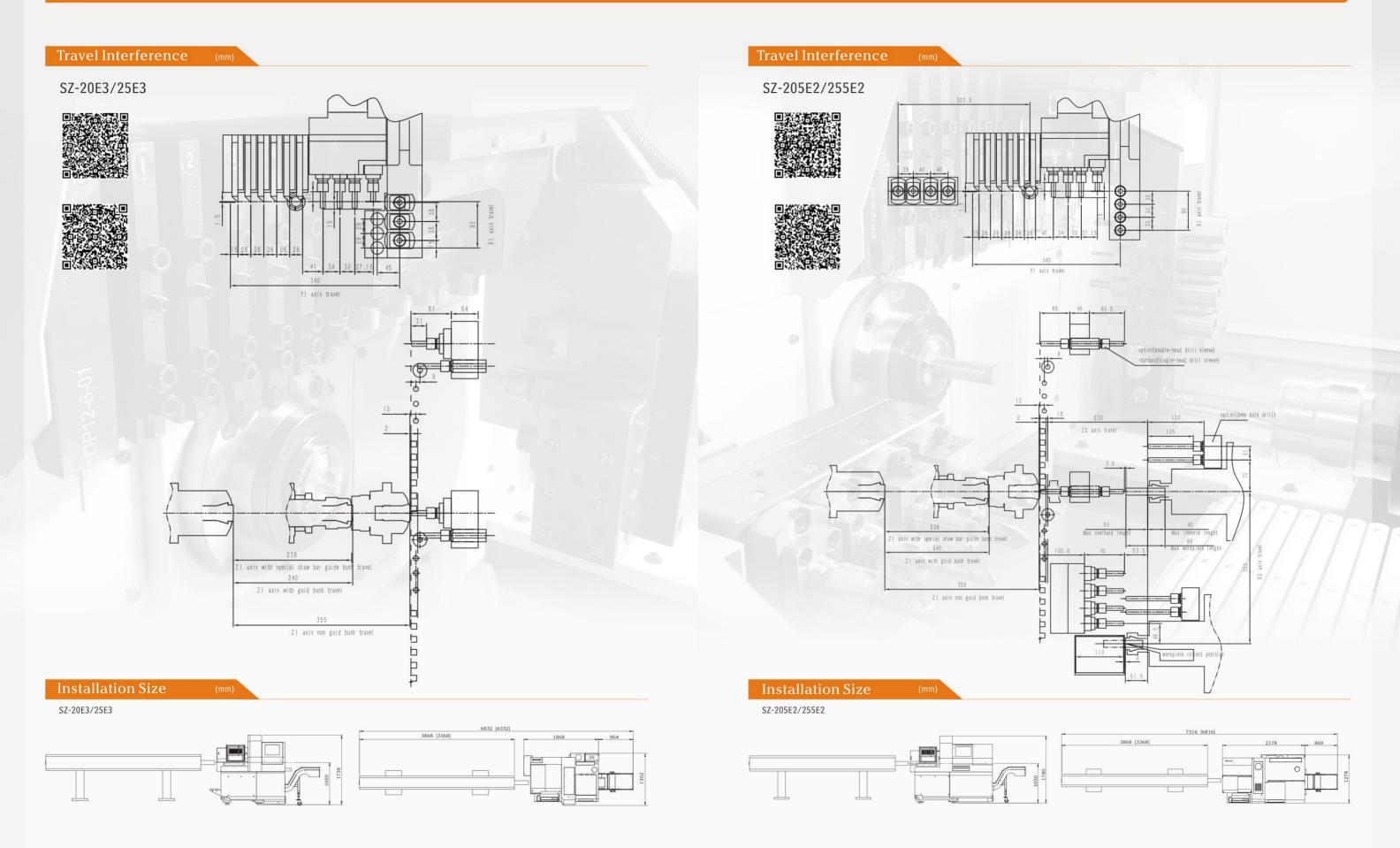
cut-off tool breakage detector

Special shaped material clamping device

Automatic fire extinguisher

Notes: 1. OD Turning tool length: 125mm
2. *4xER16: *4xER16: Standard 2 live and 2 fixed tool holder (Option: 4 live tool holder)
Technical parameters are subject to change without prior notice.

Appendix



SC-46L/SC-46YL1/SC-46YL2 Slant Bed CNC Turn Mill Lathe

Extra long X axis travel, large processing space, high cutting capacity, and high cost performance.

- Lathe body uses high quality integral cast iron, slanting degree 30, anti-bending, anti-torsion, high rigidity.
- The main spindle adopts Taiwan POSA spindle, Grade P4 high-precision angular contact ball bearing, and the heavy load design combination is front three and back two, which can effectively ensure the rigidity and accuracy.
- The feeding motors use Japan FANUC servo motor, the full pulse control is more accurate and more fast positioning, which can be used for Cs contour shaft, rigid tapping and other functions.
- Continuous pursuit of high speed technology, greatly reduce non-cutting time.
- Grade C3 ball screw and guide rail with high rigity; Japan FANUC 0i-TF control system, more accuracy positioning, machining process more stable.
- Extra long X axis travel, max 700mm.
- Use Japan FANUC 0i-TF control system, support X/Z/Y axis united machining, support milling flat /drilling/tapping /engraving/turning, etc., can complete complex part machining at one time, which can improve product accuracy and reduce process.
- The live head can select 4+4 or 4+3 different structures, which greatly meet the needs of customer production and processing.
- Use Taiwan famous brand turret, hydraulic/servo drive turret to replace the cutter nearby, quick tool change, higher accuracy.



SC-46L/SC-46YL1/SC-46YL2 Tool Layout

SC-46L





Live head power driven tool option 0/2/3/4



Dual hole boring tool post 2×Φ25



Single hole boring tool post Φ25



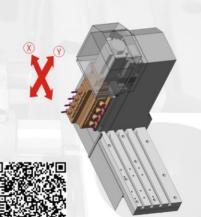
Single hole boring tool post \square 20



Dual turning tool post 2x□20

Gang tool configuration

SC-46YL1





Dual hole boring tool post 2×Φ25



Single hole boring tool post Φ25



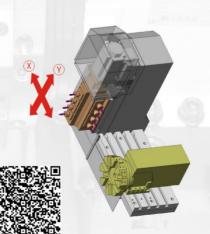
Single hole boring tool post \square 20



Dual turning tool post 2x□20

Gang tool configuration

SC-46YL2





Face turning tool post □20



Single hole boring tool post Φ25



Dual hole boring tool post 2xΦ20



Dual turning tool post 2x□16

Turret tool configuration

27 Sowin 硕方

Sc-46 Series Slant Bed CNC Turn Mill Lathe Technical Specifications

Model		SC-46YL1	SC-46YL2	SC-46L
NC device		FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF
Lathe rated power	Kw	15	15	13
Main spindle				
Spindle end face type	Kw	ANSI A2-5	ANSI A2-5	ANSI A2-5
Spindle through hole	mm	Ф46	Ф46	Ф46
Spindle power	Kw	5.5	5.5	5.5
Spindle rev speed	rpm	Max 4500	Max 4500	Max 4500
Caindle contacts alenting table distance	mm	75	75	75
Spindle center to slanting table distance Machining range		· ·		- 17
Spindle max swing dia.	mm	Ф400	Ф400	Ф400
Max turning dia.	mm	Ф350	Ф350	Ф350
Rapid feed speed	m/min	20(V V avis) 14/7 avis)	20/V V avie) 14/7 avie)	20(V avie) 14(7 avie)
napra roca specu	m/min	20(X,Y axis),16(Z axis)	20(X,Y axis),16(Z axis)	20(X axis),16(Z axis)
Feed servo motor power	Kw	1.8(X axis),1.2(Y axis), 1.4(Z axis)	1.8(X axis),1.2(Y axis), 1.4(Z axis)	1.8(X axis),1.4(Z axis)
Live head power	Kw	1.8	1.8	
Max travel				
(axis	mm	1400	1400	1400
/ axis	mm	210	210	
Zaxis	mm	350	350	350
Positioning accuracy				
X/Y/Z axis positioning accuracy	mm	0.005	0.005	0.005
X/Y/Z axis repeat positioning accuracy	mm	0.005	0.005	0.005
Spindle rotary jumpiness accuracy	mm	0.003	0.003	0.003
Spindle ban-type brake		Hydraulic brake	Hydraulic brake	Hydraulic brake
Lathe body gradient	•	30° (Integral casting body)	30° (Integral casting body)	30° (Integral casting body
Max tool installed qty.	pcs	16	16	
Tool system				
Live head		8xER20	8xER20	
Live head rev speed	rpm	4+4 Live head (Max 4500)	4+4 Live head (Max 4500)	-
Row type turning tool		5x□20		□20
Row type boring tool		3хФ25	-	Ф25
Hydraulic turret		-	8 Tool holder Ф25	-
Cutting oil pump power	Kw	0.4	0.4	0.4
Cutting oil tank volume	L	120	120	120
Net weight	Kg	3200	3500	3200

Japan FANUC control system Taiwan spindle Japan FANUC X/Y/Z axis drive Hydraulic/servo turret HIWIN/PMI screw/guide rail Hydraulic pressure station Spindle hydraulic ban-type brake Angling cylinder Lubricating system 3-colour tower light LCD working light Cutting oil tank Transformer Tool cabinet

Chip conveyor

Oil mist collector

Hydraulic chuck

Oil-bath bar feeder/Auto bar feeder

Truss manipulator Workpiece belt conveyor

SC-46 Series Slant Bed CNC Turn Mill Lathe Configuration

8 stations hydraulic/servo turret



High-precision Taiwan POSA spindle

High quality integral cast iron, slanting degree 30





Hydraulic Chuck (Optional)

Live head







Oil mis collector (Optional)



High pressure pump (Optional)



Oil bath feeder (Optional)



Oil bath feeder (Optional)	
Bar material dia.	Φ5~Φ45
Max bar material length	2500mm
Feed tube length	3800mm

3800x700x1130

LXWXCH	
*(CH: abbr center height)	

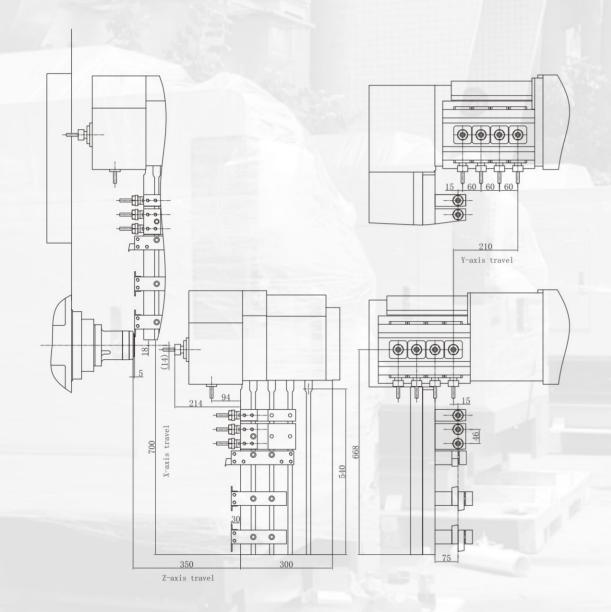
Standard configuration	
Hydraulic system(Include electrical control box)	
Two lifting columns	
Four loading tubes: dia #18 #26 #34 #45	

Motor: 380V, 0.75KW

Travel Interference

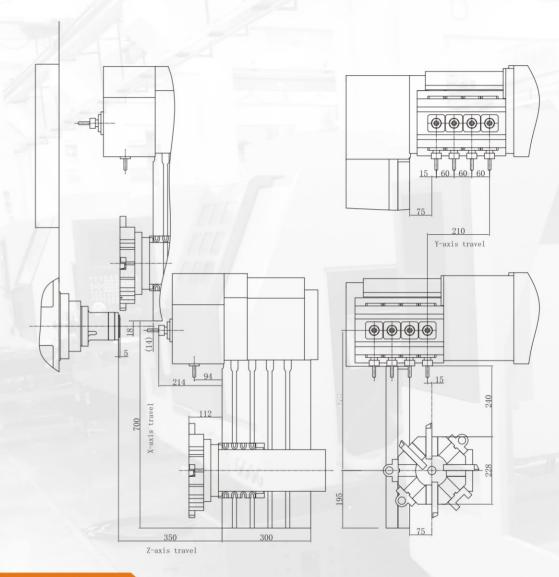
SC-46YL1 travel interference

(4+4 live head)

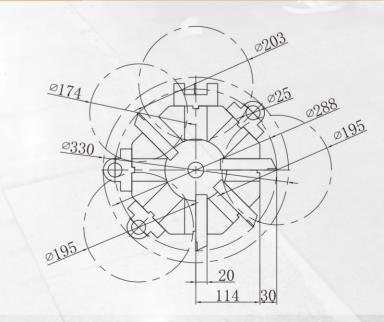


SC-46YL2 travel interference

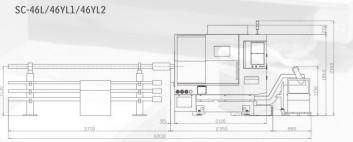
(4+4 live head)

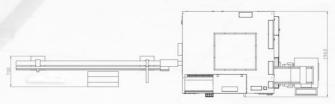


SC-46YL2 Turret interference



Installation Size





CNC Swiss Type Lathe Machining Cases Display

Computer and Consumer Electronic Industry















Slant Bed CNC Turn Mill Lathe Machining Cases Display



Exhibition Photos and Engineering Cases









