

**Wivia Machinery Co., Ltd.**

**i** series

**SWISS TURN MACHINE**



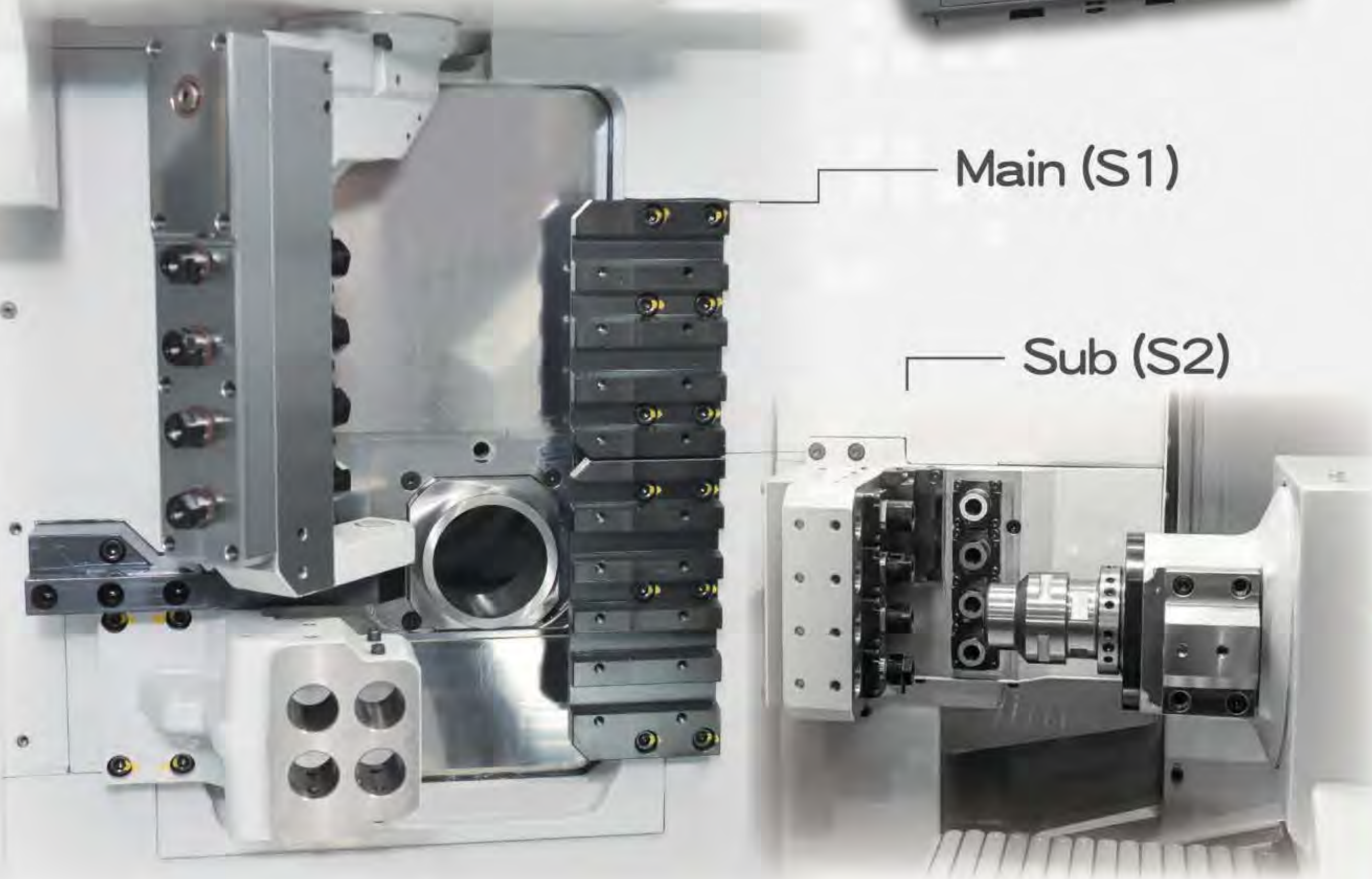
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Agent

Fast traverse speed with rigidity structure makes high precision machining quality.

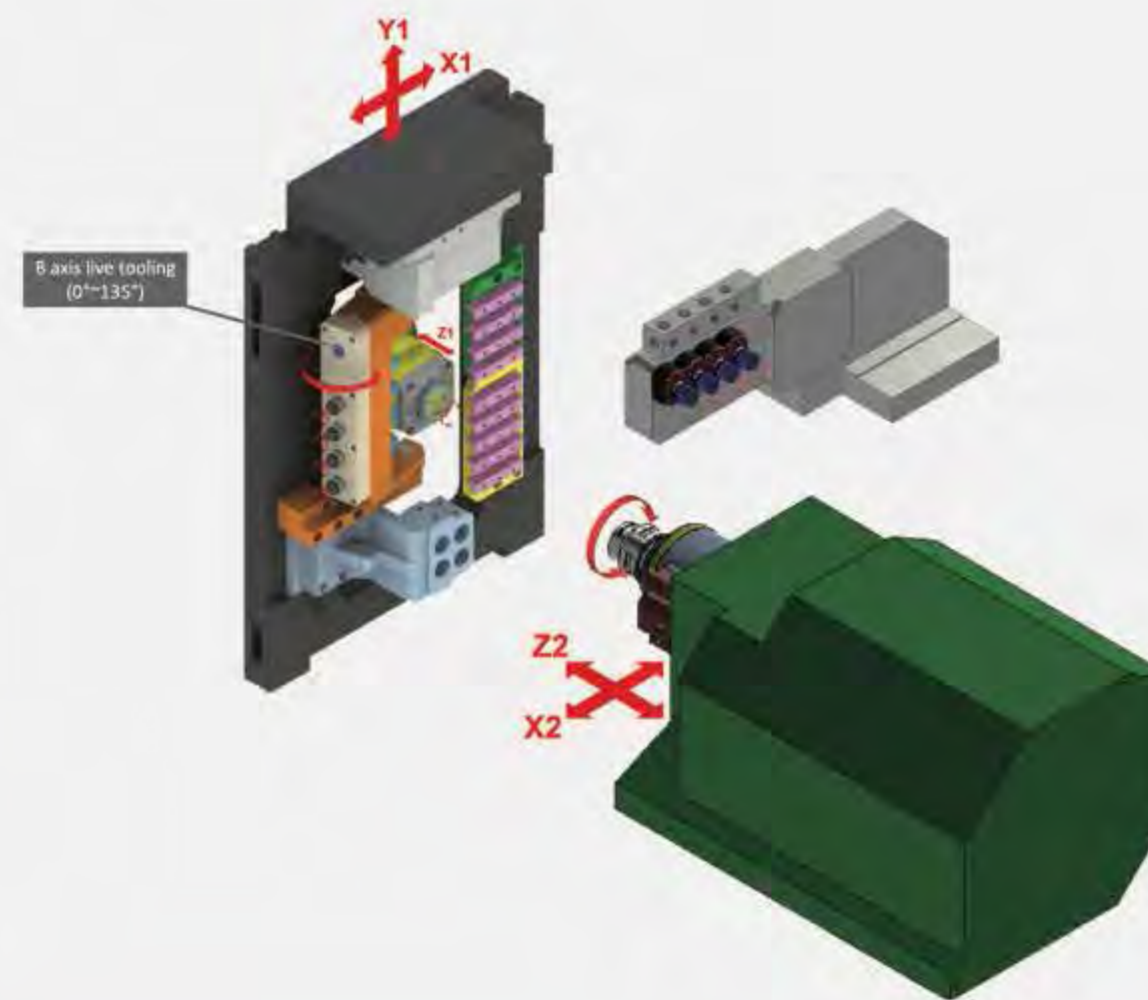
Rich tooling system helps operators solving more machining requirements.

*Wivia Machinery Co., Ltd.*

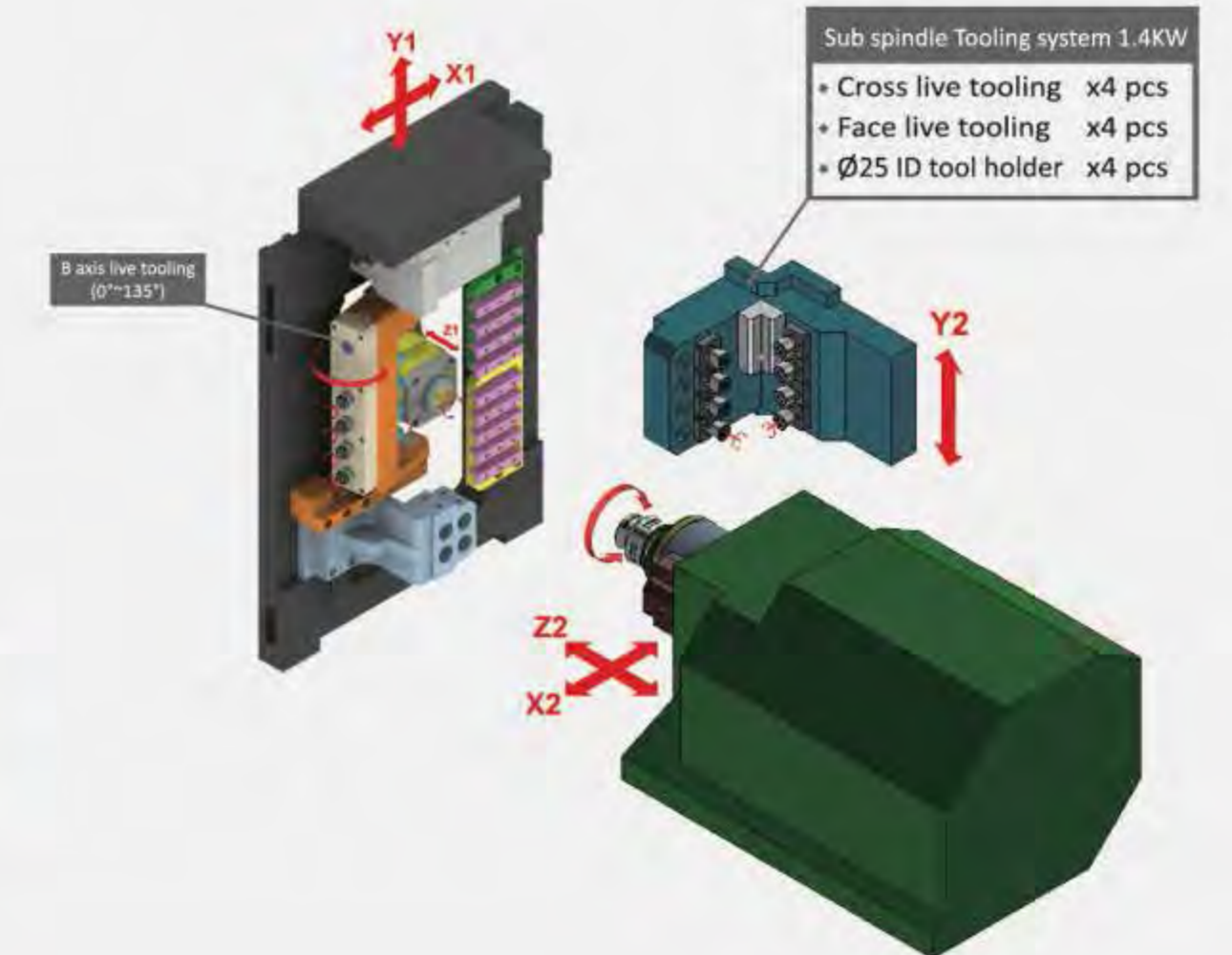


- ▶ B-axis swiveling live tool spindle can be programmed machining any angles and curved surface.
- ▶ Simultaneous 4-axis or 5-axis machining with CAD/CAM.
- ▶ Guide Bush and Non Guide Bush fast switch design.
- ▶ High speed and accuracy machining by stable structure.
- ▶ Big coolant tank and two coolant motors.

8-axis



9-axis



- ▶ Buit-in spindle motors
- ▶ Complete tooling system
- ▶ Powerful live tools
- ▶ Fast traverse 30M/min.
- ▶ ATG system
- ▶ FTS system



### WIVIA Custom page

Function setting and adjusting for Fast, Easy, and Smart operating.

### ATG (G132)

ATG system (Automatic Threading Go) can help operators to connect couple section threading automatically by one G code. No connection position request on program.

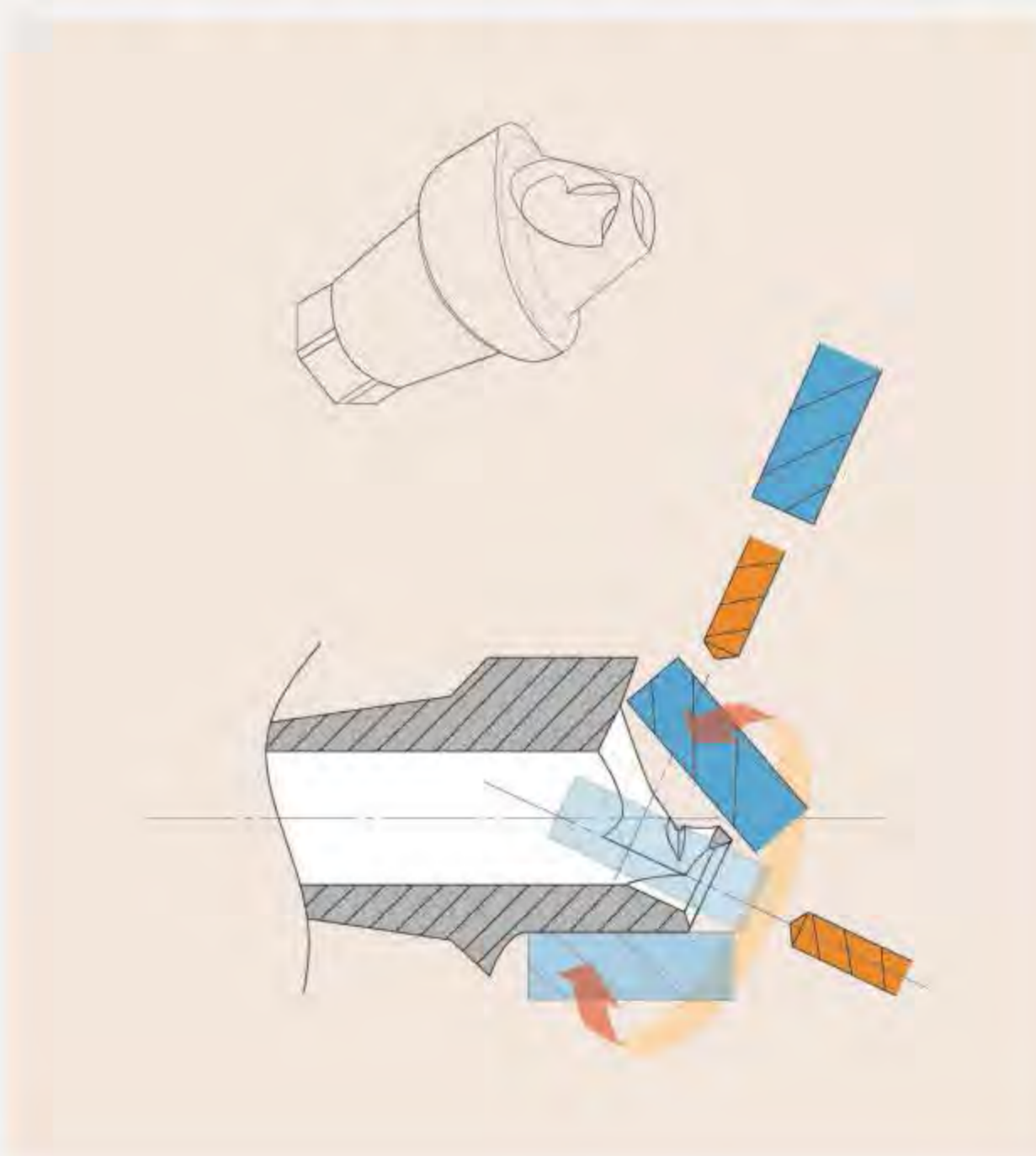
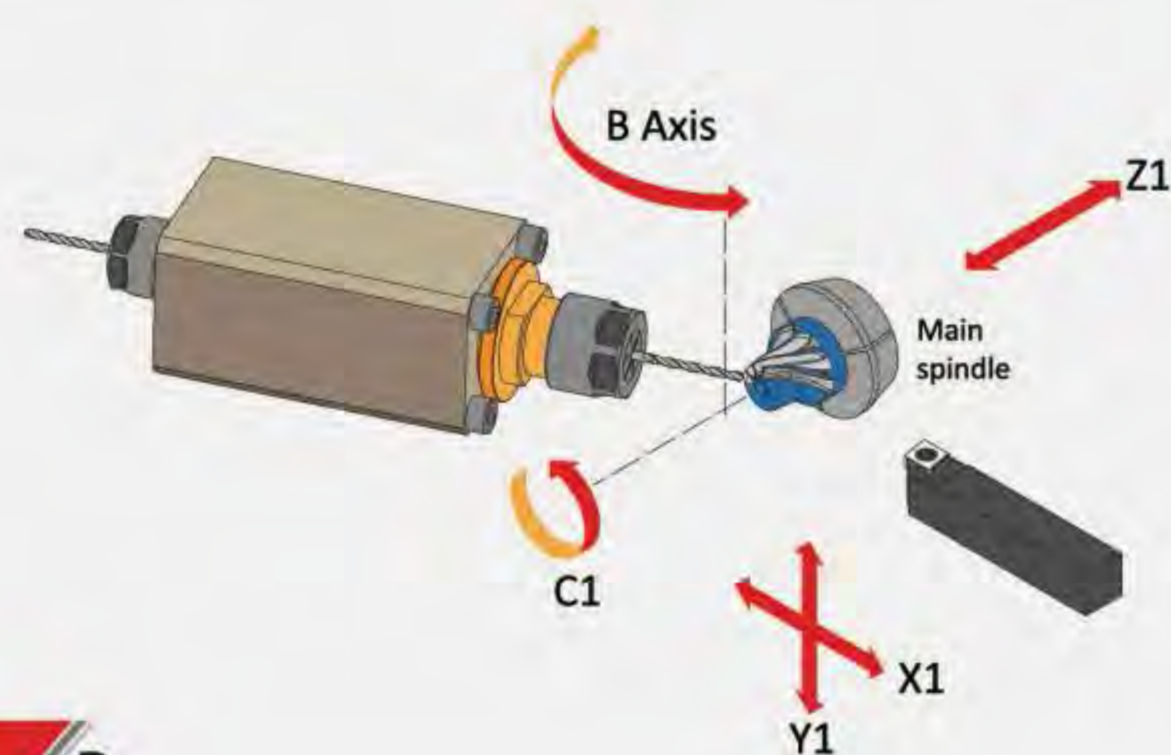


### FTS

FTS system (Fast Tooling Setting) helps operators setting toolings very fast without input any tooling numbers. The tooling change time can be reduced 40~50% and raise production capacity.

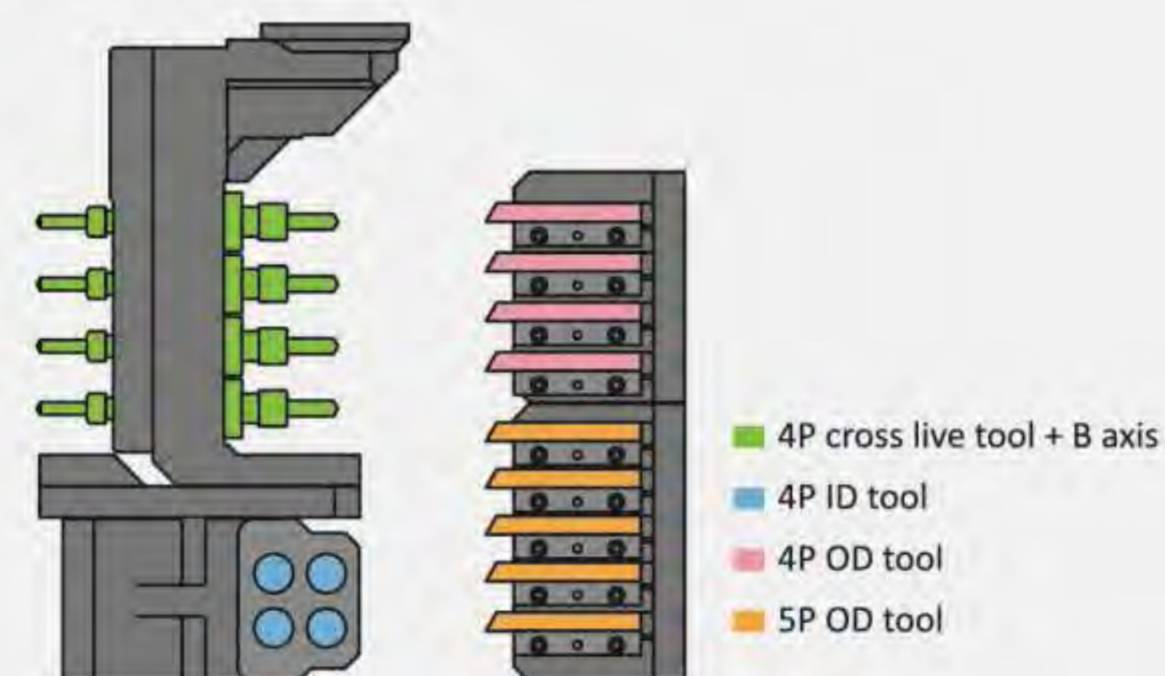


High quality 5-Axis machining for medical, electrical, defence, and other components.

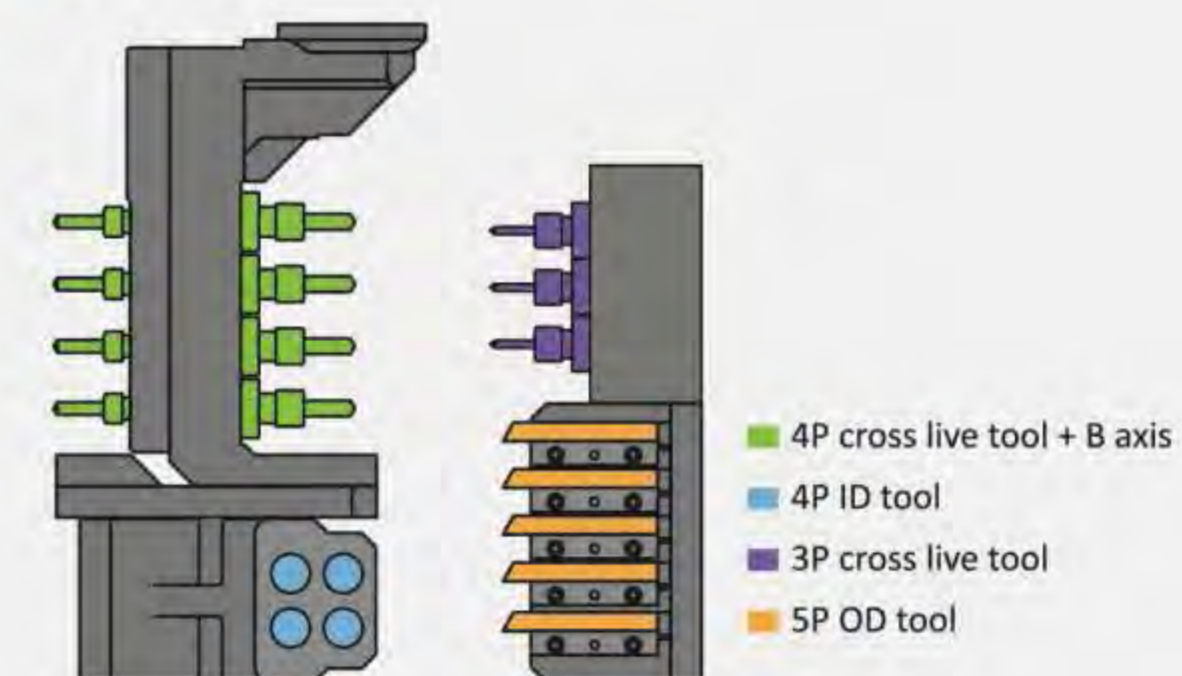


### Tooling Layout Variation

#### Standard



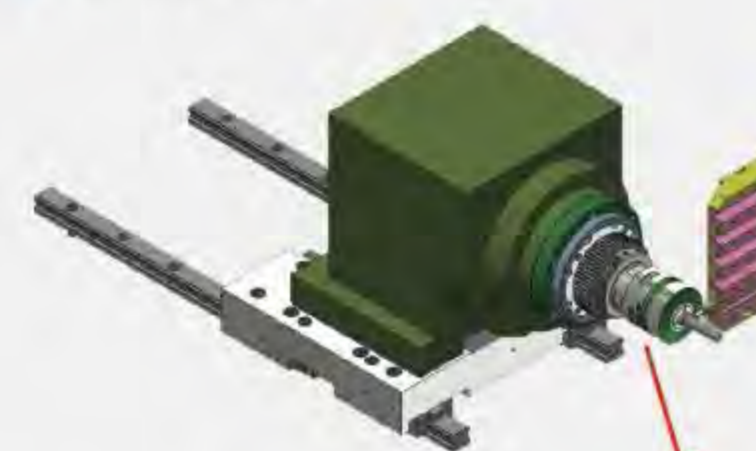
#### Option



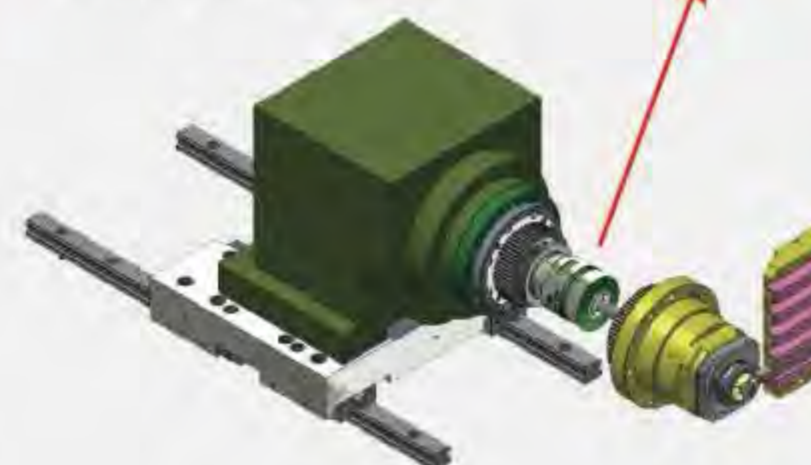
### Mode switch

- Non-Guide Bush type: material savable.
- Rotary Guide Bush type: End bar shorter
- Switch time: around 30 min.

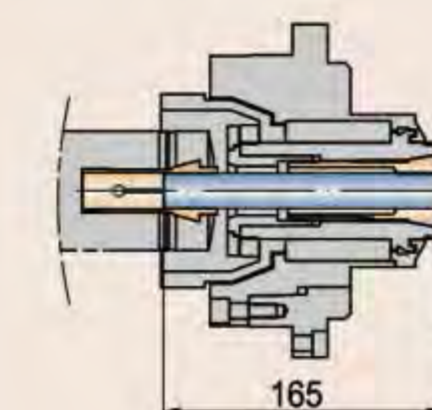
#### Guide Bush



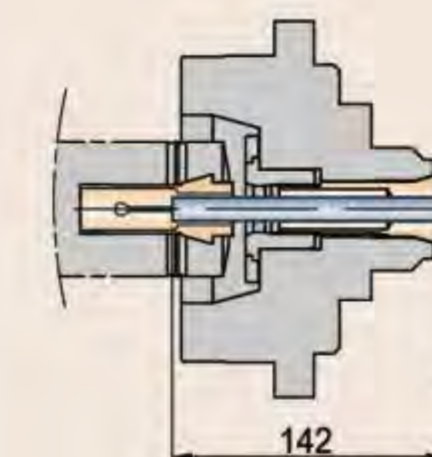
#### Non Guide Bush



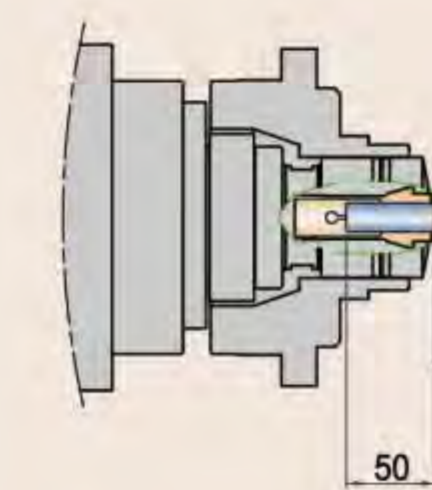
Same collet nut



**Rotary**  
End bar: 165 mm



**Fixed**  
End bar: 142 mm



**Non-bush**  
End bar: 50 mm

## Specification

Item	Unit	i128B		i129B		i208B		i209B		i268B		i269B		Remark
		FANUC 32i B	FANUC 31i B5	FANUC 32i B	FANUC 31i B5	FANUC 32i B	FANUC 31i B5	FANUC 32i B	FANUC 31i B5	FANUC 32i B	FANUC 31i B5	FANUC 32i B	FANUC 31i B5	
Control system														
Max. simultaneity axis per channel		4-axis	5-axis	4-axis	5-axis	4-axis	5-axis	4-axis	5-axis	4-axis	5-axis	4-axis	5-axis	
Max. turning dia.	mm	Ø12		Ø20		Ø26								
Max. turning length (Rotary)	mm	150		220		220								one stroke
Max. turning length (Fixed)	mm	200		240		240								
Max. turning length (Non guide bush)	mm	30		50		50								
OD tooling holder	pcs	9 / □10		9 / □12		9 / □12								OP. □ 16
ID tooling holder	pcs	4 / Ø25		4 / Ø25		4 / Ø25								Main/Sub spindle
B axis tooling number (Front)	pcs	4 / ER-11		4 / ER-16		4 / ER-16								Main spindle
B axis tooling number (Rear)	pcs	4 / ER-11		4 / ER-11		4 / ER-11								Sub spindle
B axis rotating degrees	degree	0°~135°		0°~135°		0°~135°								
S2 face live tool	pcs	4 / ER-16		4 / ER-16		4 / ER-16								
S2 cross live tool	pcs	4 / ER-16		4 / ER-16		4 / ER-16								
S2 ID tool	pcs	4 / Ø25		4 / Ø25		4 / Ø25								
Sub spindle aside drilling tooling holder	pcs	1 / Ø25		1 / Ø25		1 / Ø25								OP. 2
No. of axis controls (with C axis)	pcs	8	9	8	9	8	9	8	9	8	9	8	9	
C axis control minimum	degree	0.001°		0.001°		0.001°								Main/Sub spindle
Max. main spindle speed	rpm	10000		10000		8000								
Max. sub spindle speed	rpm	12000		10000		8000								
Main spindle motor	KW	2.2 / 3.7		3.7 / 5.5		3.7 / 5.5								Built-in
Sub spindle motor	KW	2.2 / 3.7		3.7 / 5.5		3.7 / 5.5								Built-in
Main spindle cooling		Air cooling		Air cooling		Air cooling								OP.oil
Sub spindle cooling		Air cooling		Air cooling		Air cooling								OP.oil
Main spindle clamping system		Mechanical		Mechanical		Mechanical								OP.Hydraulic
Sub spindle clamping system		Mechanical		Mechanical		Mechanical								OP.Hydraulic
Rapid traverse of X1/Z1/Y1/X2/Z2/Y2	M/min	30		30		30								
B axis live tool	KW/rpm	1.4 / 6000		1.4 / 6000		1.4 / 6000								
Sub spindle live tool	KW/rpm	1.4 / 8000		1.4 / 8000		1.4 / 8000								
Lubrication tank	L	2		2		2								
Air compressed pressure	Mpa	0.6		0.6		0.6								※ 1
Air compressed flow	L/min.	10		10		10								
Coolant tank	L	290L (100%)		290L (100%)		290L (100%)								※ 2
Machine dimension L x W x H	mm	2400 x 1356 x 1900		2720 x 1356 x 1900		2720 x 1356 x 1900								
Weight	KG	2900	2950	3150	3200	3150	3200	3150	3200	3150	3200	3150	3200	※ 3

※ 1. 0.6Mpa = 6kg/cm<sup>2</sup> ※ 2. At least 90% full for machining ※ 3. Without coolant tank and pumps.

## Optional accessories

- ▶ CAD/CAM software
- ▶ Auto fire extinguisher system
- ▶ High pressure coolant system 50/70/140 bar
- ▶ Long parts catcher
- ▶ Special tool holders need right side cross live tooling system. (Option)
- ▶ Bar feeder (3/3.7/4M)
- ▶ Chip conveyor with cart
- ▶ Oil mist collector
- ▶ 60000rpm live tool holder

## Standard accessories

No.	i128B/i208B/i268B	i129B/i209B/i269B	REMARK	No.	i128B/i208B/i268B	i129B/i209B/i269B	REMARK
1	9P OD tool holder		□10/□12	24	Main/Sub spindle air cooling system		
2	4P ID tool holder (S1/S2)		Ø25	25	Main/Sub spindle mechanical clamping		
3	4P B axis live tool holder (S1)		ER-16	26	Sub spindle parts ejection		Air cylinder
4	4P B axis live tool holder (S2)		ER-11	27	Coolant check device		Electrical type
5	4P face live tool holder (S2)	8P live tool holder (S2)	ER-16	28	Machine base blocks		6 sets
6	4P ID tool holder (S2)		Ø25	29	Chip plate		No choosing chip conveyor
7	1P deep drilling tool holder (S2)		Ø25	30	Collet position pin x2		Main/Sub
8	Main spindle V type lock		Any degree	31	Collet spring x2		Main/Sub
9	Non guide bush holder			32	Job ejection head x1		(material: aluminum)
10	Parts catcher (pneumatic)		Max. ejection 100mm	33	Tool life management		
11	Parts conveyor			34	Machining program execution by hand wheel		
12	Parts cart			35	Spindle room safety lock		
13	LED 3 color alarm light			36	Machining room safety lock		
14	LED working light		Spindle and machining	37	Machining room CE safety window		
15	Standard tools		Hex. and open-end	38	Machine cleaning gun		
16	Collet wrench			39	Auto power-off system		ON/OFF on control
17	Guide bush wrench			40	Custom page		FANUC controller
18	ER-16 nut wrench		21/19	41	Machine manual set		1 SET
19	Tool box			42	NC controller manual set		1 SET
20	Coolant supply system			43	Manual guide i		Main/Sub
21	Coolant tank		290L (100%)	44	ATG system		
22	Lub. oil for linear and ball screw		Timer control	45	FTS system		
23	Lub. oil for cross and face ilve tool		Timer control	★	<b>Configuration or design is subject to change without notice.</b>		

## Foundation

