MACHINE SPECIFICATIONS

■: Metric ■: Inch

CARACITY				
CAPACITY		SW-20II	SW-32II	
Max. machining diameter		Ø 20 mm 0.78"	Ø 32 mm 1.25"	
Max. turning length per chuck	bush	220 mm 8.66"	315 mm 12.4"	
	bushless	50 mm 1.96"	80 mm 3.14"	
SPINDLE				
Max. spindle speed		10,000 rpm	7,000 rpm	
Motor output (cont. / 15 min.))	2.2 / 3.7 kW 3 / 5 HP	5.5 / 7.5 kW 7.3 / 10 HP	
Min. indexing increment		0.001°	0.001°	
SUB SPINDLE				
Max. spindle speed		8,000 rpm	7,000 rpm	
Motor output (cont. / 15 min.)		1.5 / 2.2 kW 2/3 HP	2.2 / 3.7 kW 3 / 5 HP	
Min. indexing increment		0.001°	0.001°	
BUILT-IN SUB SPINDLE (OP	Т.)			
Max. spindle speed		10,000 rpm	7,000 rpm	
Motor output (cont. / 15 min.))	2.2 / 3.7 kW 3 / 5 HP	5.5 / 7.5 kW 7.3 / 10 HP	
Min. indexing increment		0.001°	0.001°	
FEED SYSTEM				
X / Y / Z / XB / ZB axes rapids		30 m/min. 1,181 IPM	30 m/min. 1,181 IPM	
Slide way type		Linear guide ways	Linear guide ways	
TOOLING SYSTEM				
	Number of tools	6	6	
O.D. tools	Shank size	☐ 12 mm 1/2"	☐ 16 mm 5/8"	
	Number of tools	4	4	
	Sleeve size	ER16	ER20	
I.D. tools	Max. drilling capacity	Ø 10 mm 0.39"	Ø 13 mm 0.51"	
	Max. tapping capacity	M8 x P1.25	M12 x P1.75	
	Number of tools	5 ~10	5 ~10	
	Max. live tooling speed	8,000 rpm	6,000 rpm	
	Tooling drive motor	1.2 kW 1.6 HP	1.4 kW 1.8 HP	
Cross live tools	Sleeve size	ER16	FR20	
2.033 1172 20013	Max. drilling capacity	Ø 8 mm 0.31"	Ø 10 mm 0.39"	
	Max. tapping capacity	M6 x P1.0	M8 x P1.25	
	Max. end mill capacity	Ø 10 mm 0.39"	Ø 13 mm 0.51"	
B-AXIS TOOLING SYSTEM (Ø 10 mm 0.55	0.51	
D TIXIS TOOLING STSTEM (Number of tools	6	6	
O.D. tools	Shank size	☐ 12 mm 1/2"	☐ 16 mm 5/8"	
	Number of tools	2	2	
Cross live tools	Sleeve size	ER16	ER20	
	Number of tools	Front: 3 / Rear: 3		
		+	Front: 5 / Rear: 3	
	Sleeve size	Front : ER16 / Rear : ER11	Front : ER20 / Rear : ER16	
	Tooling drive motor	2.2 kW 3 HP	2.2 kW 3 HP	
B-axis live tools	Max. live tooling speed	8,000 rpm	6,000 rpm	
	swivel angle	135° (T32 without power driven tool) 120° (T32 with milling unit) 90° (T32 with 3-spindle drilling unit)	135° (T32 without power driven tool) 120° (T32 with milling unit) 90° (T32 with 3-spindle drilling unit)	

■: Metric ■: Inch

BACKWORKING	TOOLING SYSTEM	SW-20II	SW-32II	
Rear-end	Max. chucking diameter	Ø 20 mm 0.78"	Ø 32 mm 1.25"	
machining	Max. length for front ejection	80 mm 3.14"	130 mm 5.11"	
capability	Max. parts projection length	30 mm 1.18"	50 mm 1.96"	
Rear-end tools	Number of tools	4	4	
	Max. live tooling speed	8,000 rpm	5,000 rpm	
	Tooling drive motor	1.0 kW 1.3 HP	1.0 kW 1.3 HP	
	Sleeve size	ER16	ER20	
	Max. drilling capacity (I.D. tools)	Ø 8 mm 0.31"	Ø 13 mm 0.51"	
	Max. drilling capacity (live tools)	Ø 5 mm 0.19"	Ø 6 mm 0.23"	
	Max. tapping capacity (I.D. tools)	M8 x P1.25	M10 x P1.25	
	Max. tapping capacity (live tools)	M4 x P0.7	M5 x P0.8	
Y ₂ -AXIS BACKW	ORKING TOOLING SYSTEM (OPT.)			
Number of tools		8	8	
Y ₂ -axis travel		60 mm 2.36"	80 mm 3.14"	
Y ₂ -axis rapid		30 m/min. 1,181 IPM	30 m/min. 1,181 IPM	
GENERAL				
NC controller		FANUC 31 i	FANUC 31i	
Spindle center height		1,060 mm 41.7"	1,060 mm 41.7"	
Coolant tank capacity		260 L 68 gal	425 L 112 gal	
Machine dimensions (L x W x H)		2,710 x 1,500 x 1,750 mm 107" x 60" x 69"	2,915 x 1,700 x 1,795 mm 115" x 67" x 71"	
Machine weight		2,850 kg 6,300 lb	3,400 kg 7,500 lb	

Specifications are subject to change without notice.





HEADQUARTERS

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Multi-tasking SWISS Turning Centers



MULTI-TASKING SWISS TURNING CENTERS

New generation SWII series was created with the latest machine tool technology and high quality component, also the designed concept is based on "High Speed" and "High Accuracy" of Swiss Turning Center. To overcome the complicate and precise machining, the structure rigidity of SWII series is increased significantly; moreover, the tooling system can flexible choose B-axis and Y2-axis function according to the actual machining requirement. Brand new SWII series can satisfy with your different machining requirement nowadays and future.

- ▶ The brand new casting structure and optimized tooling system increase 20% cutting rigidity.
- ▶ The movable operating panel with impact resistance and big size screen can provide the convenience and saftey
- ▶ Reliable machanical ability combine with complete feeding and discharging struture is the best choice for the automatic mass production.



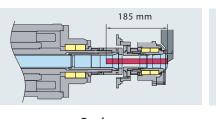
The G.LINC 350 intelligent control system is available on SW-20II (Opt.)

Hybrid Guide Bush

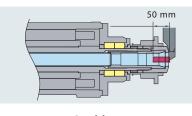
Special interface mechanical design of guide bush can be mounting or dismount base on actual situation. It is more flexible in use and save cost on facility and space in the factory. ► Remaining bar length



Hybrid guide bush

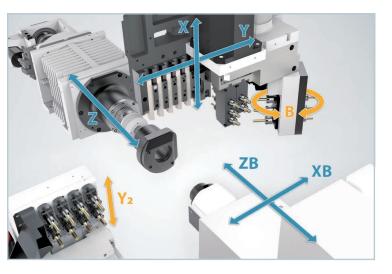


Suitable for long bar work-piece.



Suitable for cold working bar or high price raw material.

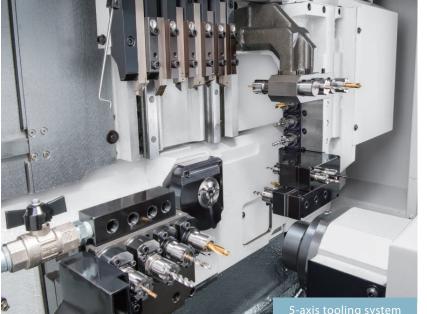
HIGH FLEXIBLE TOOL SYSTEM



Axis System

Feed axis	5-axis	6-axis		7-axis
X-axis	S	S		S
Y-axis	S	S		S
Z-axis	S	S		S
XB-axis	S	S		S
ZB-axis	S	S		S
B-axis	-	S	-	S
Y ₂ -axis	_	-	S	S

S: Standard -: Not Available



Tooling System Variations

Tarabara Carabara	5-axis	6-axis		7-axis		
Tooling System		B-axis	Y2-axis	B & Y2 axes		
O.D. tool	6	6	6	6		
I.D. tool	4	-	4	_		
Cross live tools	5	2	5	2		
B-axis live tools	_	3	_	3		
Backworking Tooling System						
Rear-end live tools	4	4	8	8		

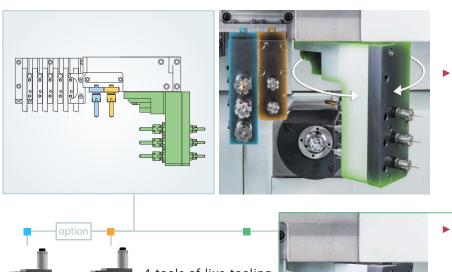




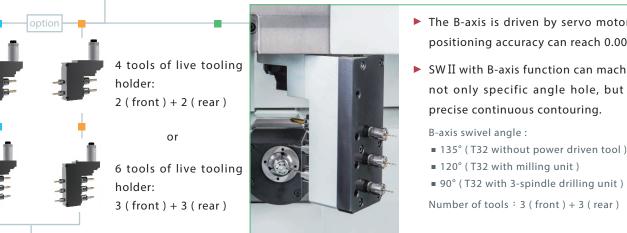
Deep Hole Drilling (Opt.)

- ► Sub-spindle applied 2 U-Drill devices which can offer deep hole drilling requirement but additional tool position is no needed.
- With high pressure coolant system, it can ensure the best deep hole drill performance.

B-AXIS MACHINING CAPABILITY



With optional B-axis function, the tooling system can be more flexible to optimize allocation to meet high complicated machining requirement.



- ► The B-axis is driven by servo motor, the positioning accuracy can reach 0.001°
- SW II with B-axis function can machining not only specific angle hole, but high precise continuous contouring.

B-axis swivel angle:

- 135° (T32 without power driven tool)
- 120° (T32 with milling unit)
- Number of tools: 3 (front) + 3 (rear)





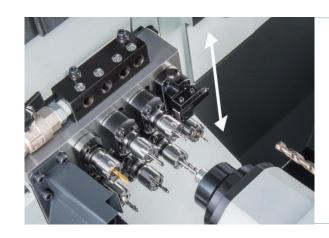


Thread Whirling

Polygon Turning

Slotting

Y2-AXIS MACHINING CAPABILITY



- ▶ With optional Y₂-axis function can proceed eccentric drilling, tapping, milling and different kind of complicated machining requirement.
- ▶ Rear-end tool holder is available with 8 tools of ER-16 live tools which driven by 1.0 kW AC servo motor with high torque output.