

Machine Specification

Description		SA12B	SA20B	SA32B
Machining Capacity	Max. Turning Bar dia.	ø12mm	ø20mm	ø32mm
	Max. Turning Bar Length	160mm	210mm	210mm
	Max. Main Spindle Drilling / Tapping	ø7mm / M6	ø10mm / M8	ø12mm / M10
	Max. Sub Spindle Chucking dia.	ø12mm	ø20mm	ø32mm
	Max. Back-end Face Drilling / Tapping	ø7mm / M6	ø8mm / M6	ø10mm / M8
	Max. Cross Drilling / Tapping	ø7mm / M6	ø8mm / M6	ø10mm / M8
Capability	Max. Cross Disc-Mill Dia.	ø30mm	ø32mm	ø40mm
	Max. Main Spindle Speed	10,000rpm	8,000rpm	8,000rpm
	Max. Sub Spindle Speed	10,000rpm	8,000rpm	8,000rpm
	Max. Cross Spindle Speed	6,000rpm	6,000rpm	6,000rpm
	Total No. of Tools	18	22	20
	O.D / Cross Live Tool / Y-Axis ID	5 / 4 / 5	6 / 4 / 5	5 / 4 / 5
	Front-end Face Tools (Sub)	-	3(Live 2, Fixed 1)	2(Live 2)
	Back-end Face Tools	4(Live 2, Fixed 2)	4(Live 2, Fixed 2)	4(Live 2, Fixed 2)
	Bite Shank	□ 10 × 120mm	□ 12 × 120mm	□ 16 × 120mm
	Rapid Traverse	32M / min.	32M / min.	32M / min.
	Controllable Axes	7	7	7
	Main Spindle Positioning	Cs + 1/1,000°	Cs + 1/1,000°	Cs + 1/1,000°
Motor	Sub Spindle Positioning	Cs + 1/1,000°	Cs + 1/1,000°	Cs + 1/1,000°
	Main Spindle	1.5 / 2.2kW	2.2 / 3.7kW	5.5 / 7.5kW
	Sub Spindle	0.55 / 1.1kW	1.5 / 2.2kW	1.5 / 2.2kW
	Cross Drill / Mill Unit	1.0kW	1.0kW	1.0kW
	Back-end Face Tools	0.5kW	0.75kW	0.75kW
	Coolant Pump Unit	0.45kW	0.9kW	0.9kW
Dimension	Lubrication Pump Unit	0.04kW	0.04kW	0.04kW
	Coolant Capacity	160ℓ	200ℓ	240ℓ
	Center Height	1,000mm	1,000mm	1,000mm
	Length × Width × Height	1,770 × 960 × 1,550mm	2,030 × 1,160 × 1,630mm	2,270 × 1,480 × 1,630mm
Net Weight		1,900kg	2,700kg	3,100kg

* Above specification may be changed without prior notice.

NC Specification

Description	SA12B / SA20B / SA32B
NC Controller	FANUC 0iTF
No. of Controllable Axis	7
Axis Designation	X1, Z1, Y1, X2, Z2, C1, C2
Min. Input Increment	0.001mm
Min. Command Increment	0.001mm (X axis : 0.0005mm)
Max. Programmable Value	±8 digits
Interpolation Function	Linear / Circular
Feedrate	1~6,000mm / min.
Feedrate Override	0~150%, 10% step
Dwell	G04 0.001~9999.999
ABS / INC Command	X, Z, Y, C : Absolute U, V, W, H : Incremental
Tool Offset	±6 digits
No. of Tool Offset	64 sets
CRT / MDI	8.4", 10.4" (SA32B) Color LCD
Display Language	English, Others
Tape Memory	1 Mbyte
No. of Registerable Program	800 sets
Miscellaneous Function	M5 / M3 digits
Main Spindle Fuction	S4 digits
Tool Function	T4 digits

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Machine Standard

Rotary Guide Bush Holder Unit
Part Conveyor
M-code Air Blow
Part Eject Detector
4 Spindle Cross Drill Unit
Main / Sub Spindle Positioning : 1/1,000°
Cs Control on Main & Sub Spindle
Back Tool Unit (Fixed 4)
Coolant Flow Detector
Work Light
Patrol Light
Barfeeder Interface
Service Tool Kit
Instruction Manual
FANUC Manual
(Operator / Maintenance / Parameter)
Y-Axis Tool Unit

Machine Option

Barfeeder
Long Part Discharging Unit
Chip Conveyor
Back Tool Unit (Live 2, Fixed 2)
M-Code Oil Blow
Cut-Off Detector
Thread Whirling Unit

NC Standard

Circle, Semi-circle Designation
Work Coordinate Shift (G50)
Machine Lock
Single Block
Software Operation Panel
Tool Offset Display
Input / Output Interface
Working Hour / No. of Parts Display
Tool Radius Compensation
Chamfer / Corner R
Automatic Power Off
Inch / Metric Conversion
Back-ground Editing
Constant Surface Speed Control
Synchronous / Composit Function
Z1-Z2 Synchronous Function
MPG Handel Wheel : 0.001mm
I/O Interface (RS232C)
Synchronous Control (Main&Sub)
Rigid Tapping on All Spindles

NC Option

MPG Program Check
IC card
Additional G-Code
FANUC Warranty Service (2 years)

NEXTURN
SWISS TURN LEADER

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CNC SWISS TYPE
AUTOMATIC LATHE

SA12B / SA20B / SA32B

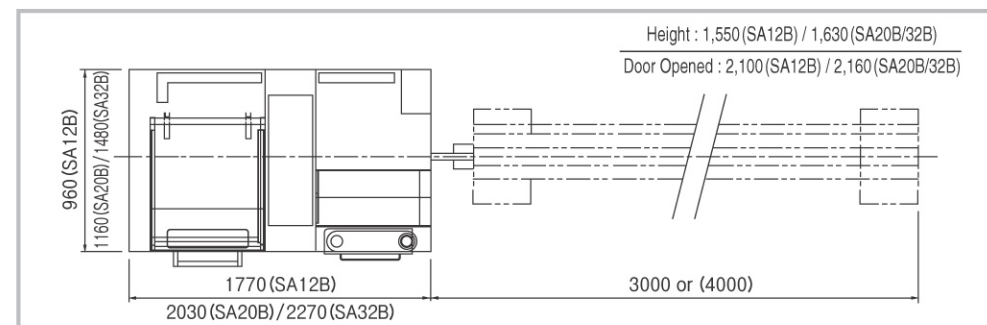


NEXTURN
SWISS TURN LEADER

Optimized for High Productivity With Impressive Price and Performance



LAY-OUT

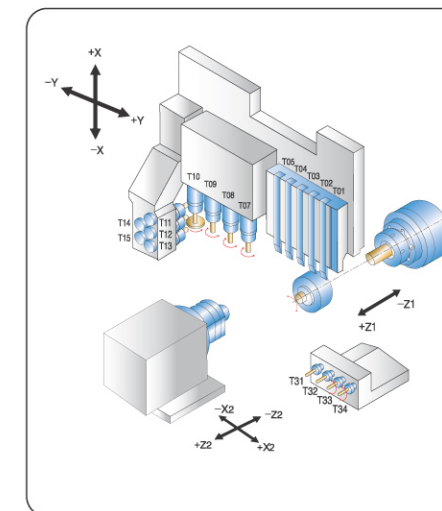


CNC SYSTEM

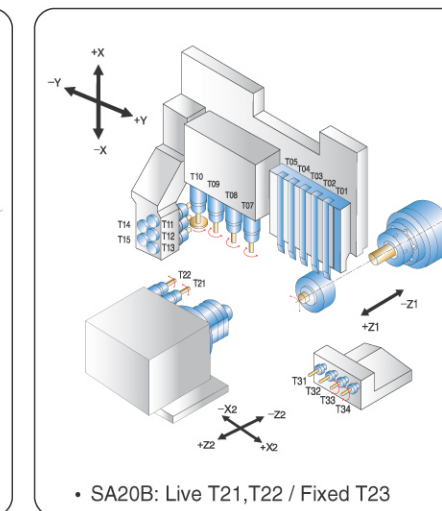
- FANUC 0iTF Controller
- Conversational and Economic Type Software for Network
- A Large Capacity PMC with High Speed for Reducing Cycle Time
- Conversational and Self-Diagnostic Function Displays
- Convenient & Simple Operation Panel Configuration

Optimum Structure Design for High Accuracy And Minimum Machining Time

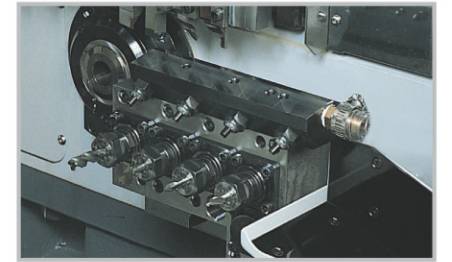
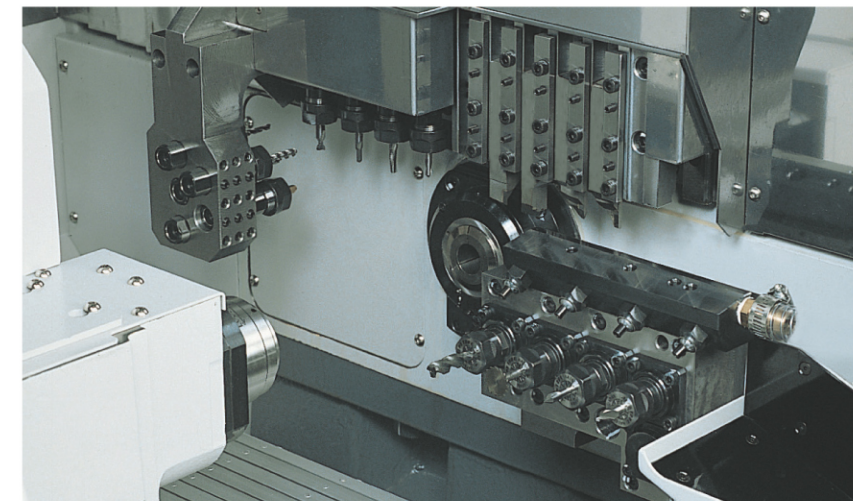
TOOLING SYSTEM (SA12B)



TOOLING SYSTEM (SA20B/32B)



POWERFUL TOOLING SYSTEM AT HIGH SPEED



POWERFUL BACK-END TOOL STATION (OPTIONAL)

- Balanced Process by Powerful Back-End Machining Reducing Cycle Time
- Rigid Off-center Drilling and Tapping with High Speed and High Accuracy
- Number of tool(4) : Live 2~4 (Option)
- Max. Spindle Spd : 6,000rpm (SA12B)



EASY OPERATION SYSTEM

- Arm Type Positioning Operation Panel with Convenience
- Fully Opening Type Covers & Doors (Up / Down, RH / LH)
- Minimized Operational Key with Software Configuration

RIGIDITY / RELIABILITY

- One Piece Casting Bed Type
- Collet for Revolving Tool (ER16)
- Cut-Off Tool Breakage Detector by Mechanical Sensors
- Cable, Sensor, Main Spindle, Ball Screw Protected against Erosion or Hardening

HIGH ACCURACY / HIGH PRODUCTIVITY

- Fanuc Built-in AC Spindle Motor
- Ultra Precision Ball Screw / LM Guide
- 1/1,000° Positioning for Main & Sub Spindle
- Keep the Optimal Repeated Precision Level by Ball Screw Dual Pressure
- Rapid Traverse Speed : 24m/min.

CONVENIENCE

- Easy Chip Disposal System with Downward Tool Direction
- Safe & Versatile Shock Protection Software
- Easy & Simple Operational Panel
- Versatile Tool Management Program
- Easy Positioned Control Panel

PNEUMATIC UNIT

- Easy Trouble Check and Remedy
- Easy Installation of Pneumatic Device
- Easy Maintenance
- Keep Stability with Visible Location against Trouble or Breakage

