

**Machine Specification**

Part	Description	SA20XII	SA26XII	SA32XII	SA45XII	SA51XII
Machining Capacity	Max. Turning Bar Dia.	φ20mm	φ26mm	φ32mm	φ45mm	φ51mm
	Max. Turning Bar Length	270mm	270mm	270mm	120mm	120mm
	Max. Main Spindle Drilling / Tapping	φ10mm / M8	φ12mm / M10	φ12mm / M10	φ16mm / M12	φ20mm / M16
	Max. Sub Spindle Chucking Dia.	φ20mm	φ26mm	φ32mm	φ45mm	φ51mm
	Max. Back-end Face Drilling / Tapping	φ8mm / M6	φ10mm / M8	φ10mm / M8	φ13mm / M10	φ13mm / M10
	Max. Cross Drilling / Tapping	φ8mm / M6	φ12mm / M8	φ12mm / M8	φ13mm / M10	φ16mm / M12
	Max. Cross Disc-Mill Dia.	φ32mm	φ40mm	φ40mm	φ45mm	φ50mm
Capability	Max. Main Spindle Speed	8,000rpm	8,000rpm	8,000rpm	6,000rpm	6,000rpm
	Max. Sub Spindle Speed	8,000rpm	8,000rpm	8,000rpm	6,000rpm	6,000rpm
	Max. Cross Spindle Speed	6,000rpm	6,000rpm	6,000rpm	6,000rpm	6,000rpm
	Total No. of Tools	29	29	29	24	22
	OD / Cross / ID Tools	8 / 8 (Modular 4) / 3	7 / 8 (Modular 4) / 4	7 / 8 (Modular 4) / 4	5 / 4 / 7 (Live 3)	6 / 3 / 7 (Live 3)
	Front-end Face Tools (Sub)	2 (Fixed, Live opt)	2 (Fixed, Live opt)	2 (Fixed, Live opt)	-	-
	Back-end Face Tools	8 (Live 4, Fixed 4)	8 (Live 4, Fixed 4)	8 (Live 4, Fixed 4)	8 (Live 4, Fixed 4)	6 (Live 3, Fixed 3)
	Bite Shank	□12×120mm	□16×120mm	□16×120mm	□20×125mm	□20×125mm
	Rapid Traverse	32M / min.	32M / min.	32M / min.	24M / min.	24M / min.
	Controllable Axes	8	8	8	8	8
Motor	Main Spindle Positioning	Cs + 1/1,000°	Cs + 1/1,000°	Cs + 1/1,000°	Cs + 1/1,000°	Cs + 1/1,000°
	Sub Spindle Positioning	Cs + 1/1,000°	Cs + 1/1,000°	Cs + 1/1,000°	Cs + 1/1,000°	Cs + 1/1,000°
	Main Spindle	2.2 / 3.7kW	3.7 / 7.5kW	3.7 / 7.5kW	11 / 15kW	13.2kW
	Sub Spindle	1.5 / 2.2kW	1.5 / 2.2kW	1.5 / 2.2kW	2.2 / 5.5kW	11 / 15kW
	Cross Drill / Mill Unit	1.0kW	2.2kW	2.2kW	2.2kW	2.2kW
	Back-end Face Tools	1.0kW	1.0kW	1.0kW	1.0kW	1.0kW
	Coolant Pump Unit	0.9kW	0.9kW	0.9kW	1.5kW	1.5kW
	Lubrication Pump Unit	0.04kW	0.04kW	0.04kW	0.04kW	0.04kW
	Coolant Capacity	250ℓ	280ℓ	280ℓ	330ℓ	330ℓ
	Center Height	1,000mm	1,000mm	1,000mm	1,100mm	1,100mm
Dimension	Length×Width×Height	2,230×1,390×1,840mm	2,230×1,400×1,970mm	2,230×1,400×1,970mm	2,290×1,570×2,030mm	2,650×1,690×2,015mm
	Net Weight	3,600kg	3,900kg	3,900kg	4,300kg	4,400kg

\* Above specification may be changed without prior notice.

**NC Specification**

Description	SA20XII / 26XII / 32XII / 45XII / 51XII
NC Controller	FANUC 0iTF
No. of Controllable Axis	8
Axis Designation	X1, Z1, Y1, X2, Z2, Y2, 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	10.4" COLOR
Display Language	English, Others
Tape Memory	1 Mbyte
No. of Registerable Program	800 sets
Miscellaneous Function	M5 / M3 digits
Main Spindle Function	S4 digits
Tool Function	T4 digits

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Machine Standard	NC Standard
Synchronous Rotary Guide Bush Holder Unit	Circle, Semi-circle Designation
Part conveyor	Work Coordinate Shift (G50)
M-code Air Blow	Machine Lock
Part Ejection Detector	Single Block
4 Spindle Cross Drill Unit	Software Operation Panel
4 Spindle Modular Cross Drill Unit	Tool Offset Display
Main / Sub Spindle Positioning : 1/1,000°	Input / Output Interface
Cs Control on Main & Sub Spindle	Working Hour / No. of Part Display
Back Tool Unit (Live 2, Fixed 2)	Tool Radius Compensation
Coolant Flow Detector	Chamfer / Corner R
Pneumatic Brake Unit (SA20XII~32XII)	Automatic Power-Off
Hydraulic Brake Unit (SA45XII/51XII)	Inch / Metric Conversion
Patrol Light	Back-ground Editing
Barfeeder Interface	Constant Surface Speed Control
Service Tool Kit	Synchronous / Composite Function
Instruction Manual	Z1-Z2 Synchronous Function
FANUC Manual (Operator / Maintenance / Parameter)	MPG(handle wheel) : 0.001mm
	Synchronous Control (Main & Sub)
	Rigid Tapping on All Spindles
Machine Option	NC Option
Barfeeder	MPG Program Check
Long Part Discharging Unit	IC Card
Chip Conveyor	Additional G-Code
Back Tool Unit (Live 4, Fixed 4)	Remote Control System (Ethernet)
M-code Oil Blow	Fanuc Warranty Service (2 years)
Front-end Face Revolving Unit (2)	Helical Interpolation
Cut-Off Breakage Detector	3 Dimensional Coordinate Conversion
Polygon Function	
Y-Axis Tool Unit	
Thread Whirling Device	



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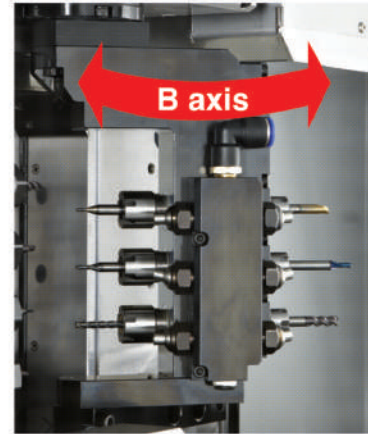
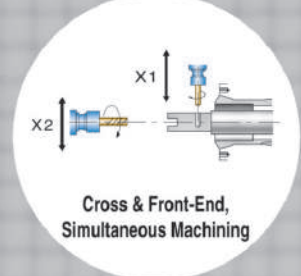
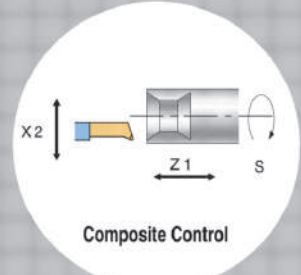
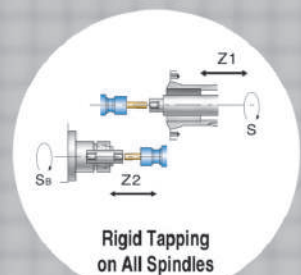
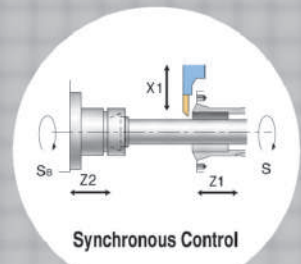
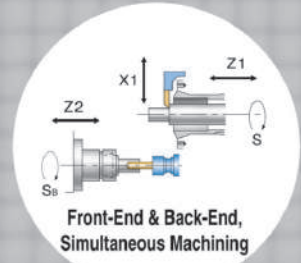
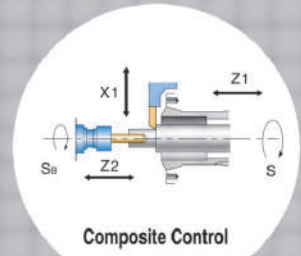
GANG SWISS-TURN

**CNC SWISS TYPE AUTOMATIC LATHE**

**SA20XII / 26XII / 32XII / 45XII / 51XII**



# Max. 31 tools, Precise Machining System



## Continuous B-axis Swiveling Tools (Option)

- Fanuc 31i-B5 system
- Front Live Tools: 3 (ER16) / Back Live Tools: 3 (ER11)
- B-axis Swiveling Angle: 0° ~ 135°

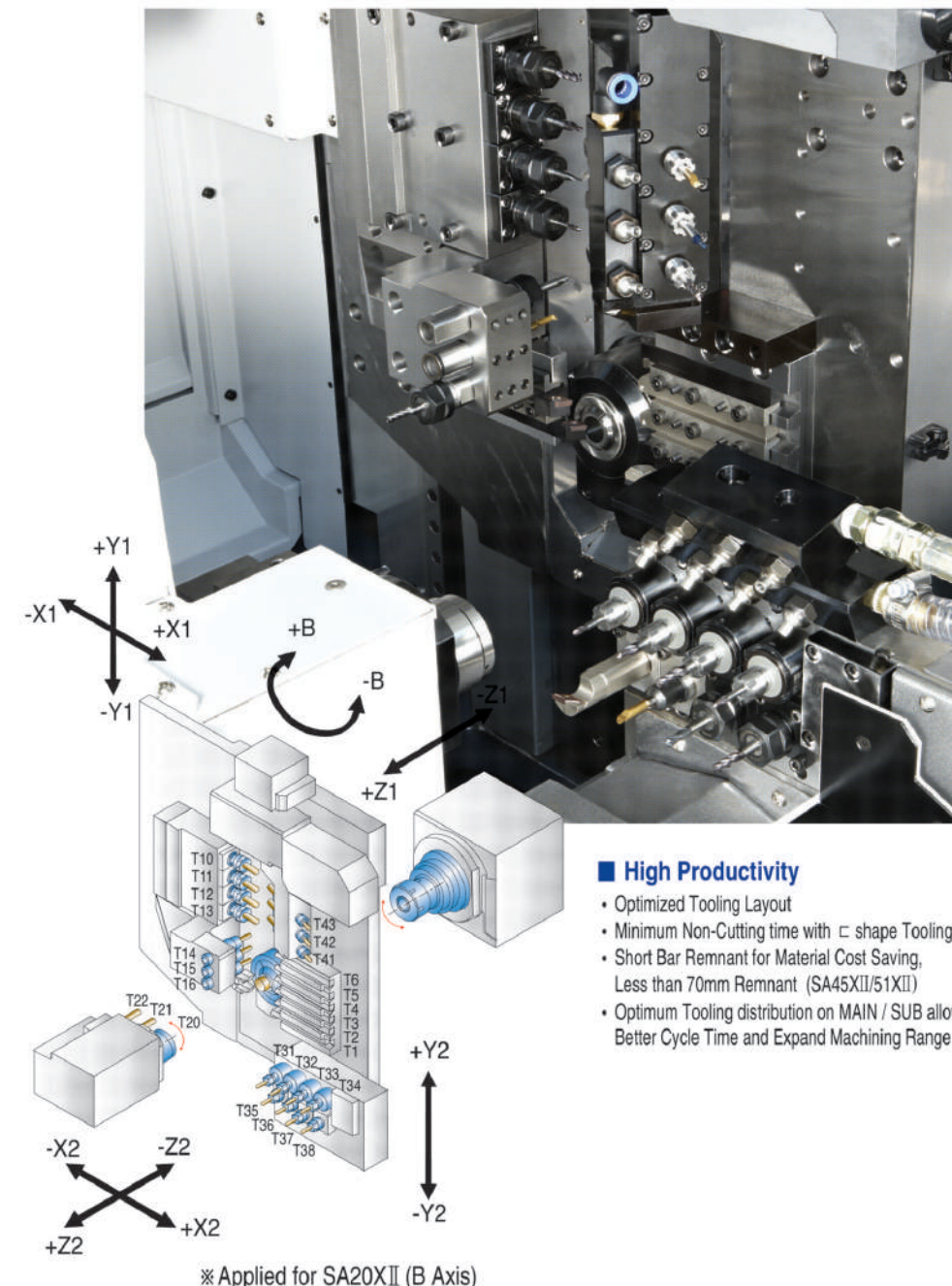
## Advantage of B-axis

- Various Angle Machining Available (Drilling, Tapping, End milling)
- Effective Use of Same Tools for Different Angles, Reducing Machining Time

## B-axis Control

- Step Indexing (Standard)  
Command B-axis Indexing Position, Execute Various Angle Machining
- Continuous B-axis Control (Option)  
Use CAD/CAM Program to Control Simultaneous 4 Axis (C1,Z1,B1,X1)

## Complex Tooling System with Multi Axis

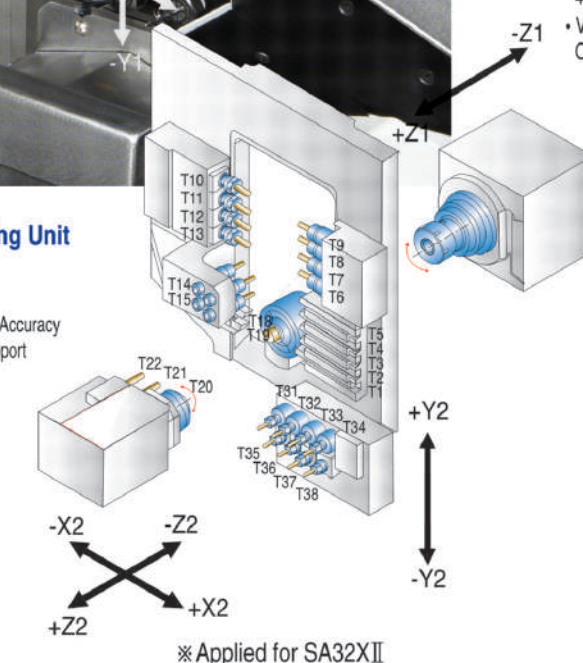


## High Productivity

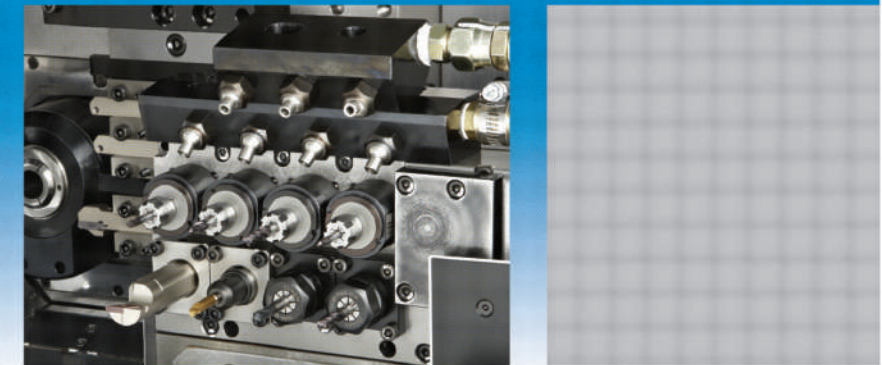
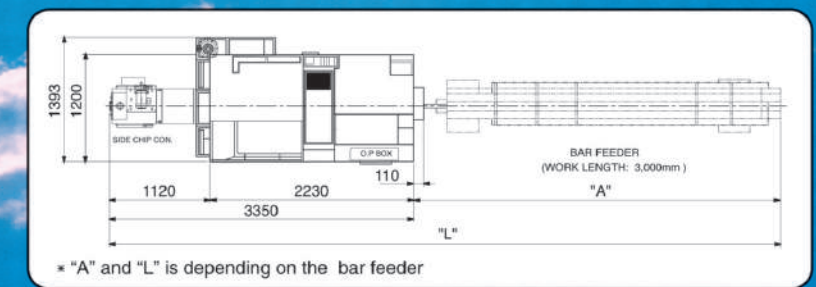
- Optimized Tooling Layout
- Minimum Non-Cutting time with C shape Tooling
- Short Bar Remnant for Material Cost Saving, Less than 70mm Remnant (SA45XII/51XII)
- Optimum Tooling distribution on MAIN / SUB allows Better Cycle Time and Expand Machining Range

## Rotary Guide Bushing Unit (SA20XII~32XII)

- Rotary Synchronous Type
- Dual Bearing Structure with High Accuracy
- Strong and Accurate Bearing Support on Both Ends
- Spline Shaft Driven



## LAY-OUT



## Powerful Back-End Tool Station

- Balanced Process by Powerful Back-End Machining Reducing Cycle Time
- Rigid Off-center Drilling and Tapping with High Speed and High Accuracy
- No. of Tools : Std. 4 (Live 2, Fixed 2) / Opt. 8 (Live 4, Fixed 4)
- Max. Spindle Speed : 5,000 rpm
- Motor Output : 1.0 kW (Fanuc)

## High Quality

- Built-in Motor System for Main / Sub (SA45XII/51XII)
- Powerful Cutting and Stable Quality Production
- Oil Cooling System for Main, Enable Best Heat Control for Improve Quality Machining Part
- Ultra Precision Ball Screw / LM Guide
- Pneumatic Brake with High Accuracy / High Rigidity (SA20XII~32XII)
- Powerful Hydraulic Disc Brake (SA45XII/51XII)
- Powerful Hydraulic Cylinder Chucking System for Stable Powerful Cutting for Max. Diameter, Minimum Maintenance (SA45XII/51XII)

## Multiplicity

- Large Tooling Capacity (Max. 33 / Live Tools 19)
- Various Application for Cross Drill Unit  
4 Cross Drilling Unit + 4 Modular Cross Drilling Unit (or B axis Unit)
- Various Tooling for Back Tool Unit  
Opt: 8 (Live 4, Fixed 4), Modular Back Tool Unit Applicable

## High Convenience

- Centralized Operation Panel, MPG Enable Simple Setting Process
- Easy & Simple Operational Panel
- One Casting and Slent Bed Structure Minimize Oil Leakage & Scattering
- Fully Opening Type Covers and Doors
- Easy Remedy for Modularized Hydraulic and Pneumatic System
- Individual Coolant Discharge

## High Rigidity

- Body Structure Design by FEM Analysis
- Tool Stand with Low Center of Gravity Design
- One Casting Bed Type with LM Guide Links to Bed
- Powerful Motor and Rigid LM Guide System for Outstanding Cutting Performance
- Superb Absorption for Vibration and Minimized Thermal Deformation