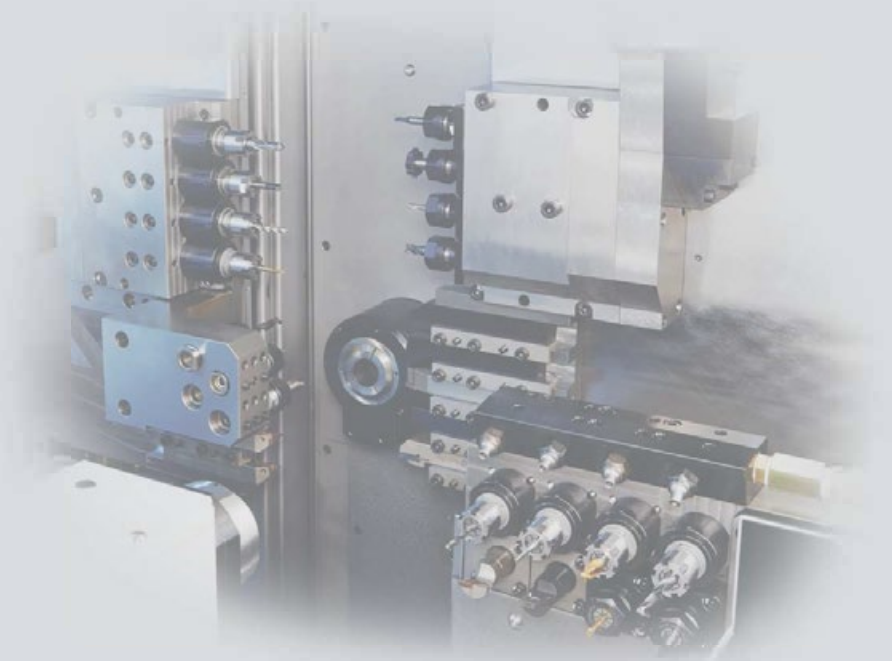


CNC SWISS-TURN



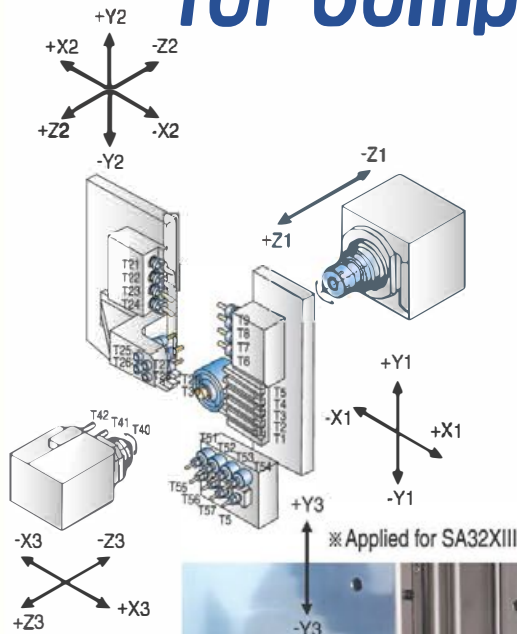
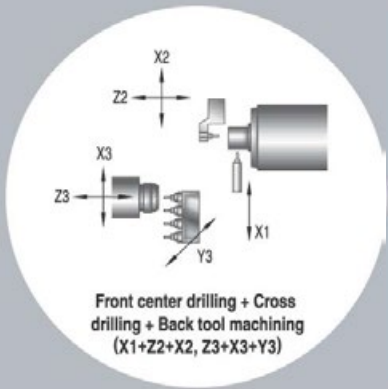
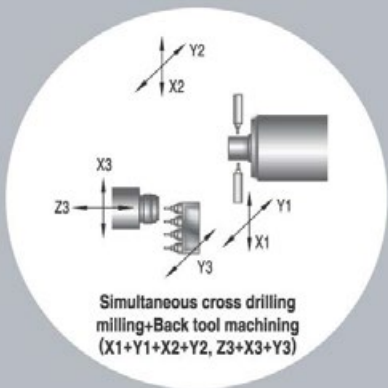
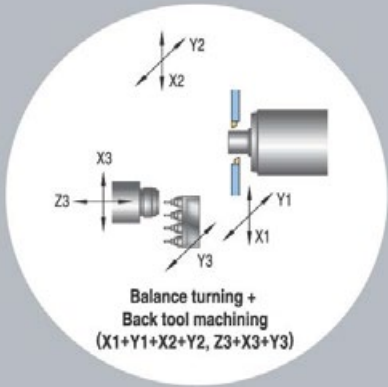
CNC SWISS TYPE AUTOMATIC LATHE

SA32XIII / 38XIII / 45XIII



NEXTURN
SWISS TURN LEADER

Max. 29 tools, Maximized for Complex Parts.



- Minimized Cycle Time with 3 Path Control
- Optimized Opposing Gang Tooling System for High Precision
- Max. 14 Live Tools Available for Complex Machining

Complex Tooling System with Multi Axis



High Productivity

- Optimized Tooling Layout (Opposing Gang Slide)
- Minimized Non-Cutting Time with 3 Path Tooling Layout
- Optimized Tooling Distribution on Path 1 / Path 2 / Path 3 allows Best Cycle Time and Minimum Idle Time

Machining Efficiency,

ining



■ Easy Operation System

- Easy Positioning Operation Panel with the Convenience and MPG Mounted
- Fully Opening Type Covers & Doors (RH / LH)
- Minimized Operational Key with Software Configuration
- Easy for Trouble Check and Remedy by Modulated Pneumatic System
- Slant Bed Structure with Easy Chip Disposal / Coolant Discharge

■ High Accuracy

- Ultra Precision Ball Screw / LM Guide
- 1/1,000th Positioning, Cs for Main & Sub Spindles
- Pneumatic Brake with High Accuracy / High Rigidity for Main & Sub Spindles
- Keep Optimal Repeated Precision Level by Ball Screw Dual Pressure

■ Convenience

- Coolant Ejection from Each Tool Block
- Easy Chip Disposal with Downward Tool Direction
- Safe & Versatile Shock Protection Software
- Easy & Simple Operational Panel
- Versatile Tool Management Program

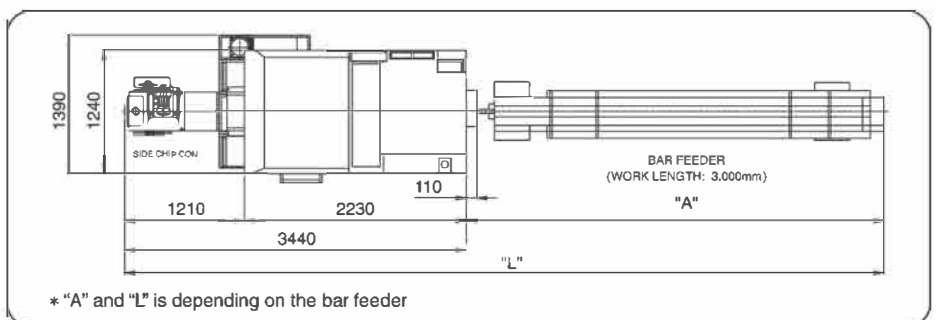
■ Rotary Guide Bushing Unit

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

■ Reliability

- Outstanding Electric System using all Fanuc Products
- Cut-Off Tool Breakage Detector by Mechanical Sensors
- Complete Oil Block for Main Spindle Area by Dual Slide Cover
- Cable, Sensor, Main Spindle, Ball Screw Protected against Erosion or Hardening
- Regular CNC Educational Program Course Available

■ 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 : 8 (Live 4, Fixed 4)
- Max. Spindle Speed : 5,000 rpm
- Motor Output : 1.0 kW (Fanuc)

■ Rigid Tapping Function

- Tap Holder not Required
- Save time with High Tapping Speed

■ Modular Type Drilling Unit

- Simple Change for Driven Tools / Fixed Tools (Back Tools)
- Special Tool Holder Adoptable (Cross)
- Angled drilling, Whirling, Hobbing, Slotting Unit

Machine Specification

Part	Description	SA32XIII	SA38XIII	SA45XIII	
Machining Capacity	Max. Turning Bar Dia.	∅32mm	∅38mm	∅45mm	
	Max. Turning Bar Length	270mm	270mm	120mm	
	Max. Main Spindle Drilling / Tapping	∅12mm / M10	∅12mm / M10	∅16mm / M12	
	Max. Sub Spindle Chucking Dia.	∅32mm	∅38mm	∅45mm	
	Max. Back-end Face Drilling / Tapping	∅10mm / M8	∅10mm / M8	∅13mm / M10	
	Max. Cross Disc-Mill Dia.	∅40mm	∅40mm	∅40mm	
Machine Capability	Max. Main Spindle Speed	8,000rpm	8,000rpm	6,000rpm	
	Max. Sub Spindle Speed	8,000rpm	8,000rpm	6,000rpm	
	1 Channel Tool	OD / Cross Live Tool	5 / 4	5 / 4	2 / 4
		Max. Cross Spindle Speed	6,000rpm	6,000rpm	6,000rpm
		Max. Drilling / Tapping	∅10mm / M8	∅10mm / M8	∅13mm / M10
	2 Channel Tool	Bite Shank	□16×120mm	□16×120mm	□20×125mm
		OD / Cross Live Tool / ID Tool	2 / 4 (Modular) / 4	2 / 4 (Modular) / 4	3 / - / 7 (Fix:4 / Live:3)
		Max. Cross Spindle Speed	6,000rpm	6,000rpm	6,000rpm
	Motor	Max. Drilling / Tapping	∅10mm / M8	∅10mm / M8	∅13mm / M10
		Bite Shank	□16×120mm	□16×120mm	□20×125mm
		Front-end Face Tools (Sub)	2 (Fix, Live:option)	2 (Fix, Live:option)	-
		Back-end Face Tools	8 (Fix:4 / Live:4)	8 (Fix:4 / Live:4)	8 (Fix:4 / Live:4)
Rapid Traverse		32M / min.	32M / min.	32M / min.	
Main Spindle Positioning		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°	
Main Spindle		5.5 / 7.5kW	5.5 / 7.5kW	11 / 15kW	
Sub Spindle		1.5 / 2.2kW	1.5 / 2.2kW	2.2 / 5.5kW	
Cross / Back Tools Unit		1.0kW	1.0kW	1.0kW	
Dimension	Servo	1.0kW	1.0kW	1.0kW	
	Coolant Pump	0.9kW	0.9kW	0.9kW	
	Lubrication Pump	0.04kW	0.04kW	0.04kW	
	Coolant Oil Capacity	250ℓ	250ℓ	300ℓ	
	Lubrication Capacity	2ℓ	2ℓ	2ℓ	
	Power Consumption	20KVA	20KVA	30KVA	
	Center Height	1,000mm	1,000mm	1,100mm	
	Length × Width × Height	2,600 × 1,400 × 1,850mm	2,600 × 1,400 × 1,850mm	2,600 × 1,450 × 1,950mm	
	Net Weight	3,700kg	3,700kg	4,000kg	

* Above specification may be changed without prior notice.

NC Specification

Description	SA32XIII / 38XIII / 45XIII
NC Controller	FANUC 31i-B
No. of Controllable Axis	11
Axis Designation	X1, Z1, Y1, X2, Z2, Y2, X3, Z3, Y3, C1, C3
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	GO4 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	128 sets
CRT / MDI	10.4" COLOR
Display Language	English, others
Tape Memory	512 Kbyte
No. of Registerable Program	500 sets
Miscellaneous Function	M5 / M3 digits
Main Spindle Function	S4 digits
Tool Function	T4 digits

* Above specification may be changed without prior notice.

Machine Standard

Synchronous Rotary Guide Bush Holder Unit
Part conveyor
M-code Air Blow
Part Ejection Detector
4 Spindle Cross Drill Unit
4 Spindle Modular Cross Drill Unit
Main / Sub Spindle Positioning : 1/1,000°
Cs Control on Main & Sub Spindle
Back-end Face Tool Unit (Live 2, Fixed 2)
Coolant Flow Detector
Pneumatic Brake Unit (SA32XIII-38XIII)
Hydraulic Brake Unit (SA45XIII)
Patrol Light
Barfeeder Interface
Service Tool Kit
Instruction Manual
FANUC Manual (Operator / Maintenance / Parameter)

Machine Option

Barfeeder
Long Part Discharging Unit
Chip Conveyor
Back-end Face Tool Unit (Live 4, Fixed 4)
M-code Oil Blow
Front-end Face Revolving Unit (2)
Cut-Off Breakage Detector
Polygon Function
Thread Whirling Device

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 Part Display
Tool Radius Compensation
Chamfer / Corner R
Automatic Power-Off
Inch / Metric Conversion
Back-ground Editing
Constant Surface Speed Control
Synchronous / Composite Function
Z1-Z3 Synchronous Function
MPG(handle wheel) : 0.001mm
Synchronous Control (Main & Sub)
Rigid Tapping on All Spindles

NC Option

MPG Program Check
IC Card
Additional G-Code
Remote Control System (Ethernet)
Fanuc Warranty Service (2 years)
Helical Interpolation
3 Dimensional Coordinate Conversion

NEXTURN
SWISS TURN LEADER

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