Machine Specification

Part	Description		SA32XⅢ	SA38XⅢ	SA45XⅢ
Machining Capacity	Max. Turning Bar Dia.		Ø32mm	Ø38mm	Ø45mm
	Max. Turning Bar Length		270mm	270mm	120mm
	Max. Main Spindle Drilling / Tapping		Ø12mm / M10	Ø12mm / M10	Ø16mm / M12
	Max. Sub Spindle Chucking Dia.		Ø32mm	Ø38mm	Ø45mm
	Max. Back-end Face Drilling / Tapping		Ø10mm / M8	Ø10mm / M8	Ø13mm / M10
	Max. Cross Disc-Mill Dia.		Ø40mm	Ø40mm	Ø40mm
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	Ø10mm / M8	Ø10mm / M8	Ø13mm / M10
		Bite Shank	□16×120mm	□16×120mm	□20×125mm
	2 Channel Tool	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
		Max. Drilling / Tapping	Ø10mm / M8	Ø10mm / M8	Ø13mm / 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˚
Motor	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
	Servo		1.0kW	1.0kW	1.0kW
	Coolant Pump		0.9kW	0.9kW	0.9kW
	Lubrication Pump		0.04kW	0.04kW	0.04kW
Dimension	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 Fuction	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

Printing date : 30/ 9/ 2015

NEXTURN
SWISS TURN LEADER

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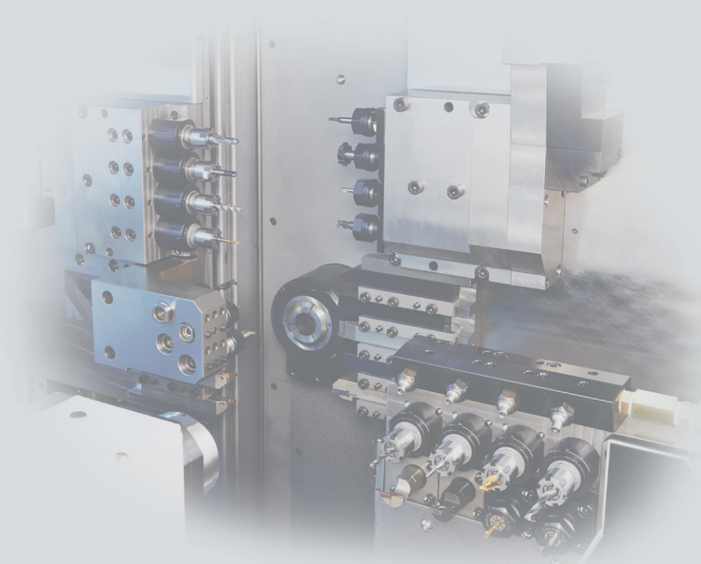
  FAX:82-31-288-2094
- E-mail : overseas@nexturn.co.kr
- Homepage : http://www.nexturn.co.kr

ISO 9001 / 14001
Registered Firm

CNC SWISS-TURN

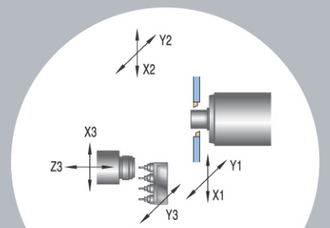


CNC SWISS TYPE AUTOMATIC LATHE

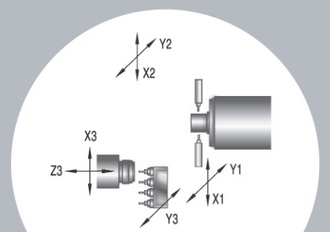
SA32XⅢ/38XⅢ/45XⅢ

NEXTURN
SWISS TURN LEADER

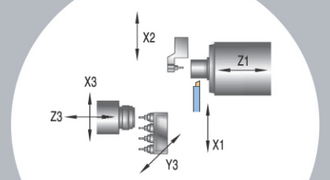
Max. 29 tools, Maximized Machining Efficiency, for Complex Parts.



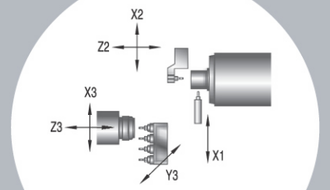
Balance turning +
Back tool machining
(X1+Y1+X2+Y2, Z3+X3+Y3)



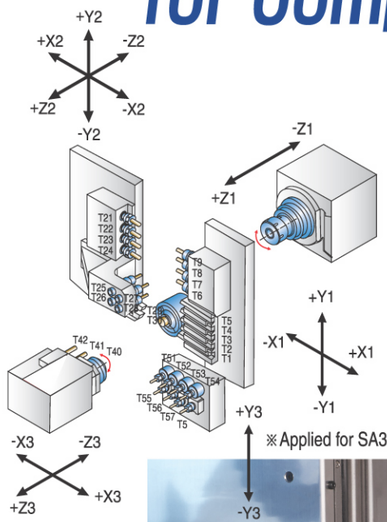
Simultaneous cross drilling
milling+Back tool machining
(X1+Y1+X2+Y2, Z3+X3+Y3)



Simultaneous turning, Front center drilling
+ Back tool machining
(Z1+X1+X2, Z3+X3+Y3)

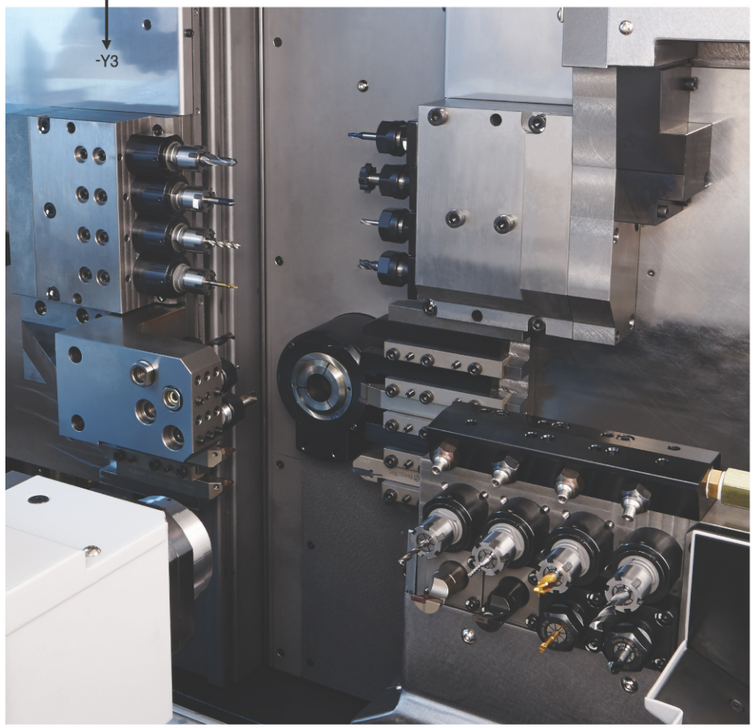


Front center drilling + Cross
drilling + Back tool machining
(X1+Z2+X2, Z3+X3+Y3)



※Applied for SA32XIII

- 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

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
- 1/1,000° 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

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)

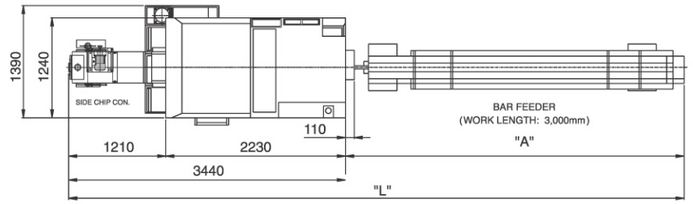
Rigid Tapping Function

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

Modular Type Driling Unit

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

LAY-OUT



* "A" and "L" is depending on the bar feeder