

■ Specification

Description		SA20X	SA32X	SA45X	REMARK
Machining Capacity	Max. Turning Bar dia. (Main/Sub)	ø20 / ø20mm	ø32 / ø32mm	ø45 / ø45mm	
	Max. Turning Bar Length	235mm	235mm	235mm	
	Max. Drilling & Tapping	ø12mm / M10×1.5	ø12mm / M10×1.5	ø16mm / M12×1.75	
	Max. Sub Spindle Chucking dia.	ø20mm	ø32mm	ø45mm	
	Spindle Motor (Main)	3.7 / 2.2 KW	7.5 / 5.5 KW	11 / 7.5 KW	Built-in Motor
	Spindle Motor (Sub)	3.7 / 2.2 KW	3.7 / 2.2 KW	7.5 / 5.5 KW	Built-in Motor
	Max. Main Spindle Speed	8,000rpm	8,000rpm	6,000rpm	
	Max. Sub Spindle Speed	8,000rpm	8,000rpm	6,000rpm	
	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°	
Capability	Total No. of Tools	24(26)	24(26)	19(21)	
	No. of Turning / ID Tools (for Main Spindle)	6 / 5	6 / 5	5 / 3	
	Bite Shank Size	□16×120mm	□16×120mm	□20×120mm	
	Back Tools (for Sub Spindle)	7 (revolving: 4~7)	7 (revolving: 4~7)	6 (revolving: 3~6)	No Rigid Tapping
	Turning / ID Tools (for Sub Spindle)	3 / 4	3 / 4	2 / 4	
	TOOL SIZE	□16×120mm	□16×120mm	□16×120mm	
	No. of Revolving Tools (X / Y)	2 / 4	2 / 4	2 / 3	No Rigid Tapping(X Unit)
	No. of Revolving Tools (Z)	2 + 2	2 + 2	2 + 2	
	Max. Tool Spindle Speed	5,000rpm	5,000rpm	5,000rpm	
	Max. Revolving Tool Drill, Tap	ø12mm / M10×1.5	ø12mm / M10×1.5	ø16mm / M12×1.75	
Motor	Tool Spindle Motor (X / Y)	1.0 kW(X) / 0.55/1.1 kW(Y)	1.0 kW(X) / 0.55/1.1 kW(Y)	1.0 kW(X) / 0.55/1.1 kW(Y)	
	Slide Travel (X1 / Y1 / Z1)	135 / 260 / 70mm	135 / 260 / 70mm	135 / 260 / 70mm	
	Slide Travel (X2 / Y2 / Z2)	180 / 210 / 235mm	180 / 210 / 235mm	180 / 210 / 235mm	
	Rapid Travers	24M / min	24M / min	24M / min	
	X1, Y1, Z1, X2, Y2, Z2	1.0 kW	1.0 kW	1.0 kW	
Dimension	Coolant PUMP	0.9 kW	0.9 kW	0.9 kW	
	Lubrication PUMP	0.04 kW	0.04 kW	0.04 kW	
	Spindle Center Height	1,000mm	1,000mm	1,000mm	
	Length × Width × Height	2,200 × 1,460 × 1,750mm	2,200 × 1,460 × 1,750mm	2,200 × 1,460 × 1,750mm	
	Weight	3,400kg	3,500kg	3,500kg	

* () indicates an option.

■ NC Specification

Description	SA20X/32X/45X
NC Controller	FANUC 18i-TB
No. of Controllable Axis	8
Axis Designation	X1, Y1, Z1, X2, Y2, Z2, C1, C2
Min. Input Increment	0.001mm
Min. Command Increment	0.001(X Axis : 0.0005mm)
Max. Programmable Value	±8 digits
Interpolation Function	Linear / Circular
Rapid Traverse	24m/min
Feedrate	1~6,000mm/min
Feedrate Override	0~150%, 10% step
Dwell	G04 0~99999.999
ABS / INC Command	X, Z, Y, C : Absolute U, W, V, H : Incremental
Tool Offset	±6 digits
No. of Tool Offset	64sets
CRT / MDI	10.4" Color LCD
Display Language	English, Others
Tape Memory	80m
No. of Registerable Program	63 sets
Miscellaneous Function	M5 / M3 digits
Main Spindle Function	S4 digits
Tool Function	T4 digits

* Above Specifications are subject to change without prior notice.

Machine Standard

Collet Chuck System
Coolant System
Cross drill unit (4 / 2 spindles)
Tool Setting Gauge
Work Light
Signal Light (3 Step)
Coolant Flow Detector
Service Tool and Tool Box
Main / Sub Positioning : 1/1,000°
Instruction Manual
FANUC Manual (Operator / Maintenance / Parameter)
Barfeeder Interface
Part Conveyor
Air Blow
Part Eject Detector

Machine Option

Barfeeder
Long Part Discharging Unit
Chip Conveyor & Chip Box
Back Revolving Tool (No Rigid Tapping)
M-Code Oil Blow
Cut Off Detector
Polygon Attachment
Front Revolving Tool (2,4 spindles)
Safety Door Lock
Thread Whirling Unit
Inner Spindle Coolant System (Sub)
Oil Mist Collector

NC Standard

Circle, Semi-circle Designation
Override Cancel
Work Coordinate Shift (G50)
Machine Lock
Single Block
Self-Diagnostic Function
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
Chasing Function
Synchronous Control (Main & Sub.)
Z1-Z2 Synchronous Function
MPG(handel wheel) : 0.001mm
Rigid Tapping on Y Unit
I/O Interface (RS232C)

NC Option

Tape Memory (160m, 320m, 640m)
IC card
MPG Program Check
Additional G-Code
Remote Control System
FANUC Warranty Service (2 years)

NEXTURN
SWISS TURN LEADER

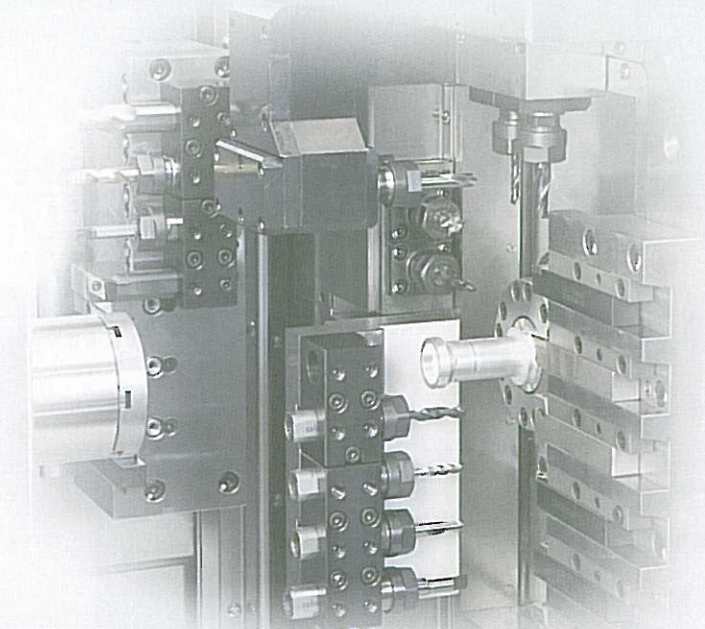
- 400-29, Goma-e-Dong, Kiheung-Gu, Yongin-Si, Kyungki-Do, Korea
TEL: 82-31-288-2092
FAX: 82-31-288-2094
- E-mail : overseas@nexturn.co.kr
- Homepage : http://www.nexturn.co.kr



ISO 9001 / 14001 Registered Firm

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CNC TURNING CENTER



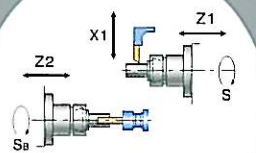
**CNC FIXED HEAD STYLE
MULTI AXIS TURNING CENTER**

SA20X/32X/45X

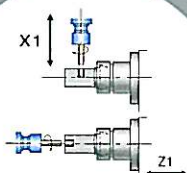


NEXTURN
SWISS TURN LEADER

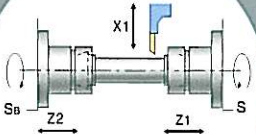
Max. 26 tools, High Accuracy complex part, Minimized Bar Remnant SA20X/32X/45X Series



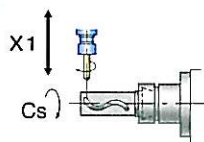
Front-end & Back-end,
Simultaneous Machining



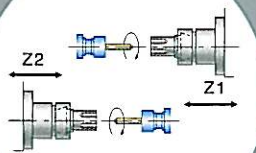
Rigid Tapping
(Front & Cross)



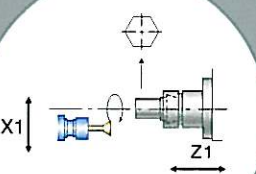
Synchronous Control



Cs Contouring
(Main/Sub)



Off center drilling
(Front & Back)



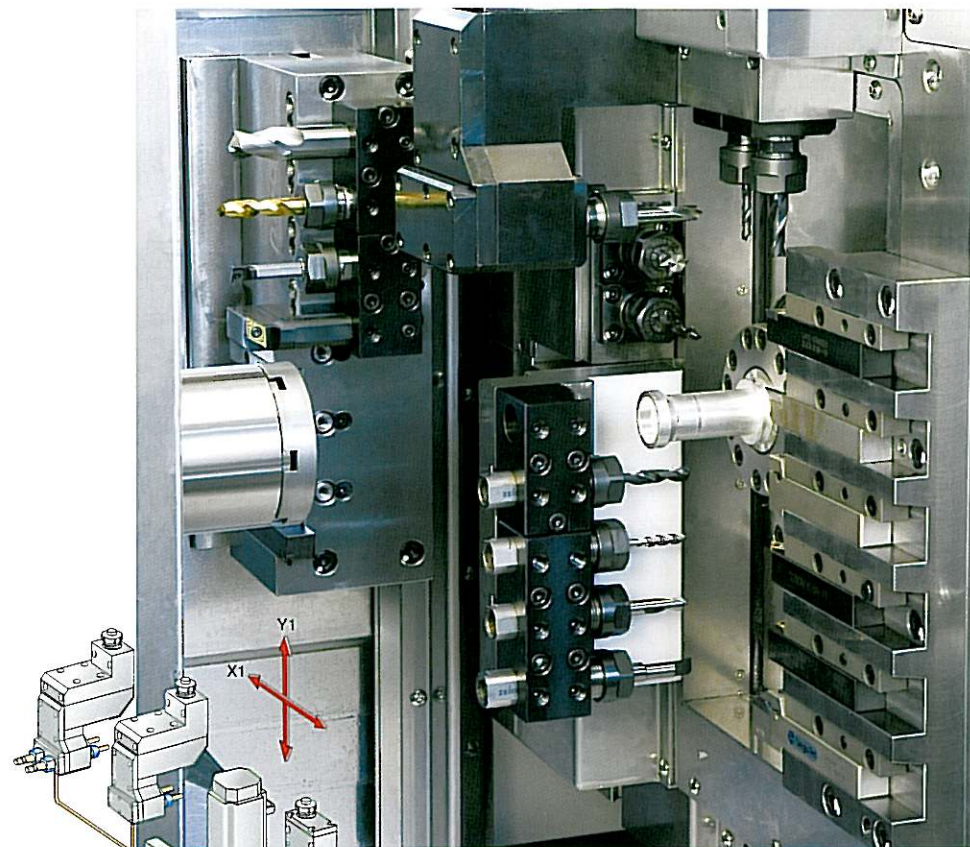
Polygon Turning
(Main & Sub)



18i-TB Controller for Ethernet CNC System

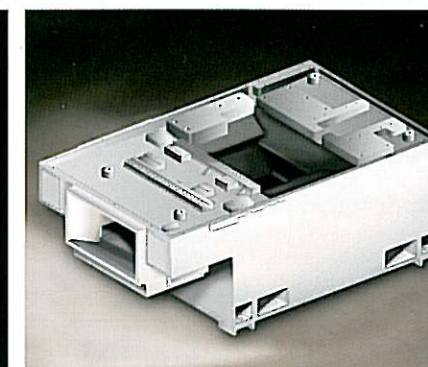
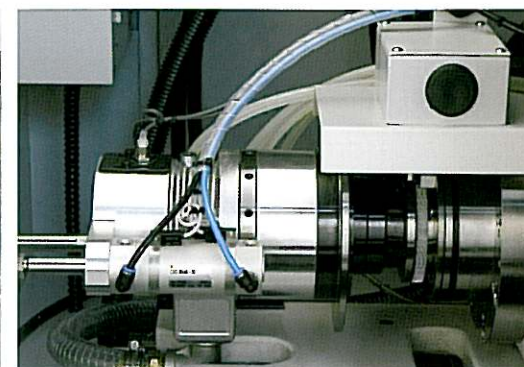
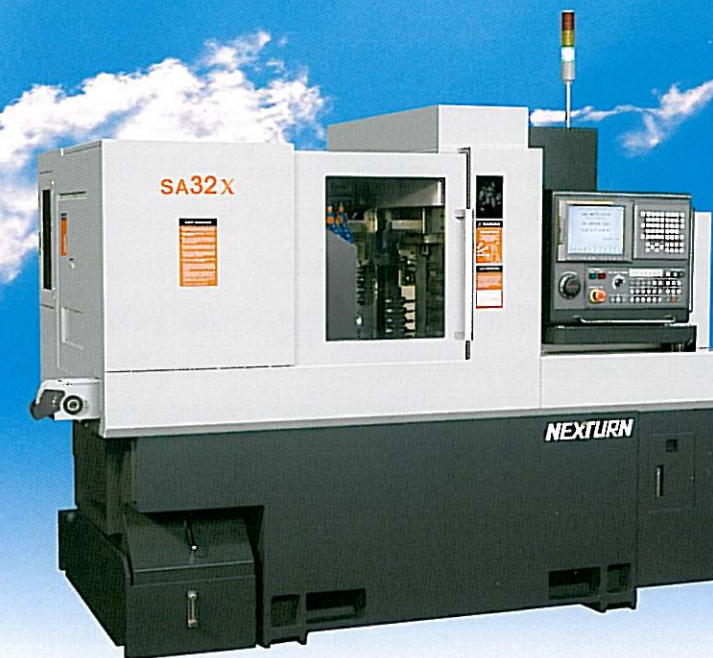
- Conversational and Economic Type Software for Network
- High Speed, Large Capacity PMC for minimized Cycle Time
- Conversational and Self-Diagnostic Function Display
- Convenient & Simple Operation Panel Configuration
- MPG with Easy Manual Operation

Complex Tooling System with Multi Axis



High Productivity

- Optimized Tooling Layout
- Minimum Non-Cutting time with □ shape Tooling
- Short Bar Remnant for Material Cost Saving
- Less 70mm Remnant provide 60% Cost Benefit Compare to Swiss Type
- Optimum Tooling distribution on MAIN / SUB allows Better Cycle Time and Expand Machining Range



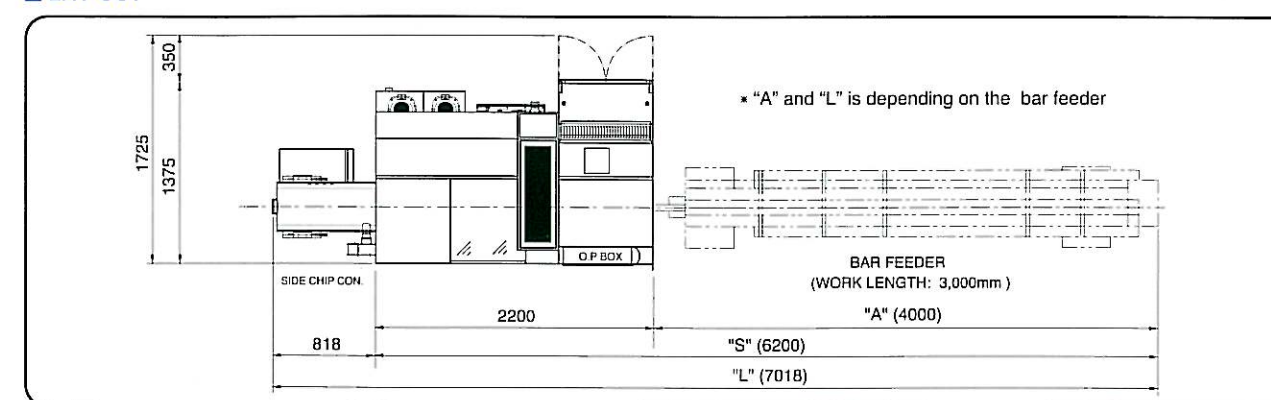
High Quality

- Built-in Motor System for Main / Sub
- Powerful Cutting and Stable Quality Production
- Oil Cooling System for Main/Sub, Enable Best Heat Control for Improve Quality Machining Part
- Ultra Precision Ball Screw / LM Guide
- Powerful Hydraulic Disc Brake (Main / Sub)
- Powerful Hydraulic Cylinder Chucking System for Stable Powerful Cutting for Max. Diameter, Minimum Maintenance

Multiplicity

- Large Tooling Capacity (Max. 26 / Revolving 6)
- Various Application for Cross Drill Unit
Opt: 2 Front Revolving Tool Unit Opt: 2 Front / 2 Back Revolving Tool Unit
- Various Tooling for Back Tool Unit
Std: OD Tools 3 / ID Tools 4 (Fixed) Opt: ID Tools 4~7 (Revolving)

LAY-OUT



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 Modulized 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