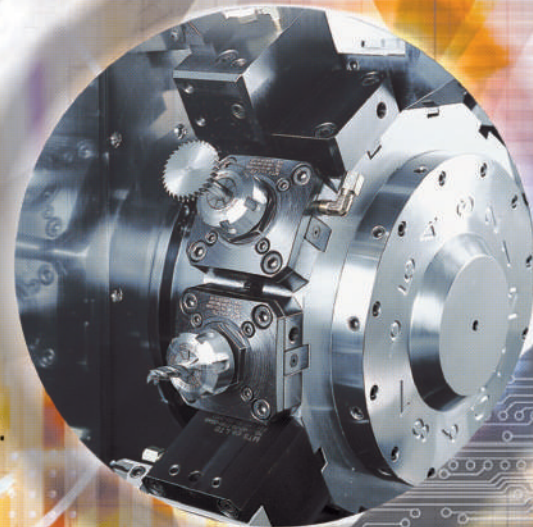


3 PATH CONTROLS COMPLETE TOTAL MACHINING SOLUTION WITH 8 or 12 STATION TURRET, GANGTYPE TOOL POST, AND SUB SPINDLE

Independent drive

- Low noise / low power consumption
- Optimized precision machining without heat deformation on Turret
- Maximized machining capability with live tooling application for all 8 or 12 station.



More powerful spindle structure

- Improved cutting performance with powerful main spindle built-in motor (11/15kW)
- Powerful hydraulic disc brake
- Improved precision and machining quality with low heat factor by oil cooling system
- Minimized remnant bar (less than 80mm) for economic production



High Rigidity, High Precision live Tools

- Increase drive shaft and bearing size to improve 20% machining efficiency.
- Turret bore diameter 45mm
- 3-axis control Turret station enable simultaneous cross milling and cross off-center machining



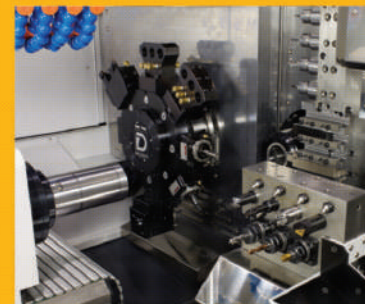
Powerful Back working tool station

- Easier application with identical modular spindles for cross and back working tools
- Various optional tooling application for optimum production
- High speed, High precision off-center drilling and tapping
- 7 tools (modular 3, fixed 4)



CNC System

- Fanuc 31i-B controller
- Conversational software for Network
- A Large Capacity PMC with High speed for reducing cycle time
- Conversational and self-diagnostic function display



Short Indexing time

- Quick tool change time by servo motor indexing structure
- Non lifting type turret indexing reduces mechanical shocks.
- Minimize non cutting time



Easy Operation System

- Arm type positioning operation panel (Free positioning)
- Structure for Easy Tooling and Tool change (center Height 1,100mm)
- Easy setting support with centralized panel and MPG program check

MACHINE SPECIFICATION

	Description	NST38	NST45	NST56
Machining Capacity	Max. Turning Bar Dia.	φ38mm	φ45mm	φ56mm
	Max. Turning Bar Length	150mm	340mm	150mm
	Max. Drilling / Tapping	φ16mm / M12	φ16mm / M12	φ20mm / M16
	Max. Sub Spindle Chucking Dia.	φ38mm	φ45mm	φ56mm
	Max. Back-end Face Drilling & Tapping	φ13mm / M10	φ13mm / M10	φ13mm / M10
	Max. Cross Disc-mill Dia.	φ50mm	φ50mm	φ50mm
Machine Capability	Max. Main Spindle Speed	8,000rpm	6,000rpm	5,000rpm
	Max. Sub Spindle Speed	6,000rpm	6,000rpm	5,000rpm
	Front Tools	OD / Cross Live Tool	4 / 4	4 / 4
	Max. Cross Spindle Speed	6,000rpm	6,000rpm	6,000rpm
	Max. Drilling / Tapping	φ13mm / M10	φ16mm / M12	φ16mm / M12
	Bite Shank	□ 16(3EA), □ 20(1EA) × 125mm	□ 20 × 125mm	□ 20 × 125mm
	Turret	No. of Station	8	12
	Max. Live Tool speed	6,000rpm	6,000rpm	6,000rpm
	Max. Live Tool Drilling/Tapping	φ16mm / M12	φ16mm / M12	φ16mm / M12
	Bite Shank	□ 20 × 125mm	□ 20 × 125mm	□ 20 × 125mm
	Back-end Face Tools	7(Fixed 4, Live 3)	7(Fixed 4, Live 3)	7(Fixed 4, Live 3)
	Rapid Traverse (Y1, Y2, Y3)	24M/min	24 M/min	24 M/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	11/15 kW	7.5/11 kW	11/15 kW
	Sub Spindle	2.2/5.5 kW	2.2 / 5.5 kW	3.7 / 5.5 kW
	Cross / Back Tools Unit	1.0 kW	2.2 kW / 1.0 kW	2.2 kW / 1.0 kW
	Servo	2.5 kW	2.5 kW	2.5 kW
	Coolant Pump	0.9 + 0.9 kW	0.9 + 0.9 kW	0.9 + 0.9 kW
	Lubrication Pump	0.04 kW	0.04 kW	0.04 kW
	Coolant Capacity	450 ℓ	450 ℓ	450 ℓ
	Lubrication Capacity	2 ℓ	2 ℓ	2 ℓ
Dimension	Cooling Oil Capacity	12 ℓ	12 ℓ	12 ℓ
	Power Consumption	45 KVA	45 KVA	45 KVA
	Center Height	1,100mm	1,100mm	1,100mm
	Length × Width × Height	2,850 × 2,000 × 1,980	2,850 × 2,000 × 1,980	2,850 × 2,000 × 1,980
	Net Weight	6,300 kg	6,300 kg	6,400kg

NC SPECIFICATION

Description	NST38/45/56
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	0.001(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	128 sets
CRT / MDI	10.4" COLOR
Display Language	English, Others
Tape Memory	1Mbyte
No. of Registerable Program	1,000 sets
Miscellaneous Function	M5 / M3 digits
Main Spindle Function	S4 digits
Tool Function	T6 digits

※ Above Specification may be changed without prior notice.

NEXTURN
SWISS TURN LEADER



■ 35, Giheungdanji-ro, 121beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, Korea
 ■ Tel : 82-31-288-2092 Fax : 82-31-288-2094
 ■ E-mail : overseas@nexturn.co.kr
 ■ Homepage : http://www.nexturn.co.kr



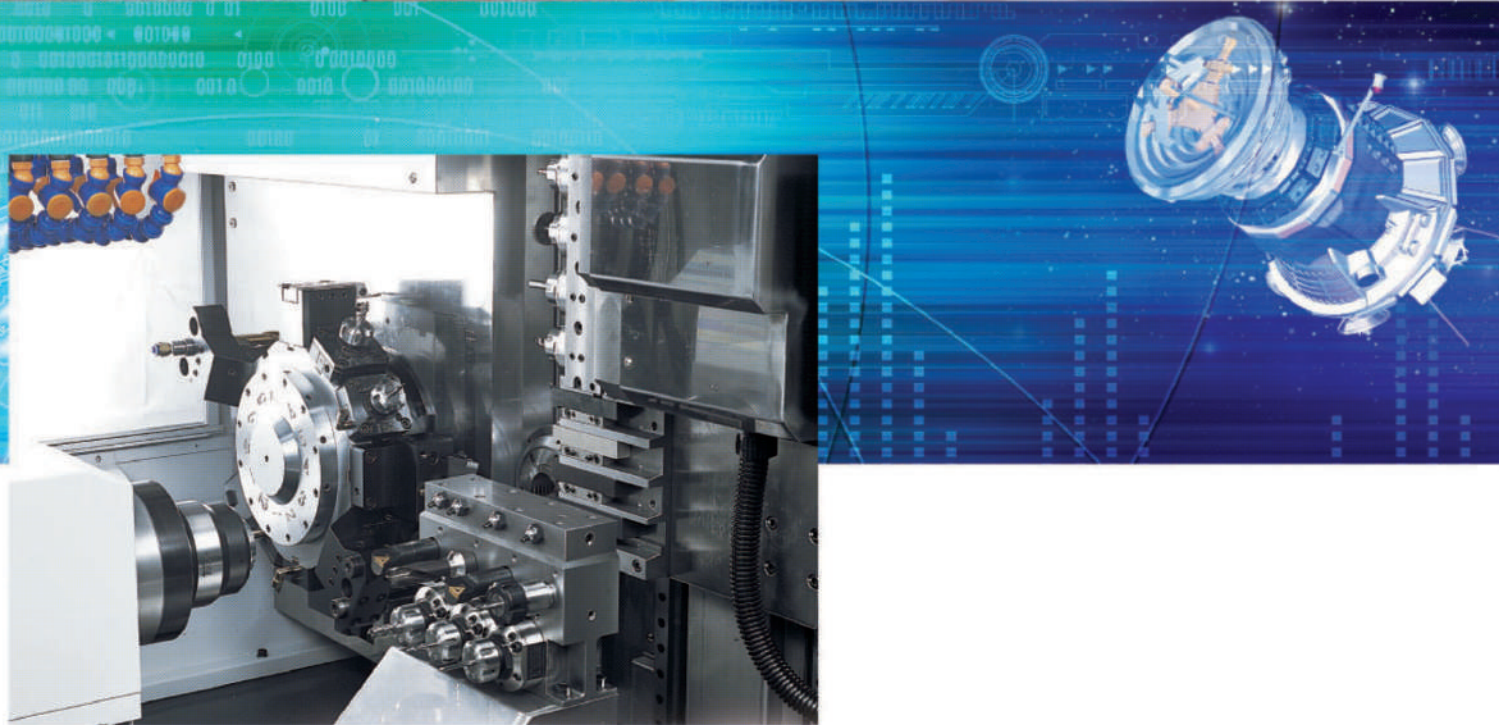
www.nexturn.co.kr

HIGH SPEED PRECISION CNC AUTOMATIC LATHE NST38/45/56 MULTI AXIS TURNING CENTER

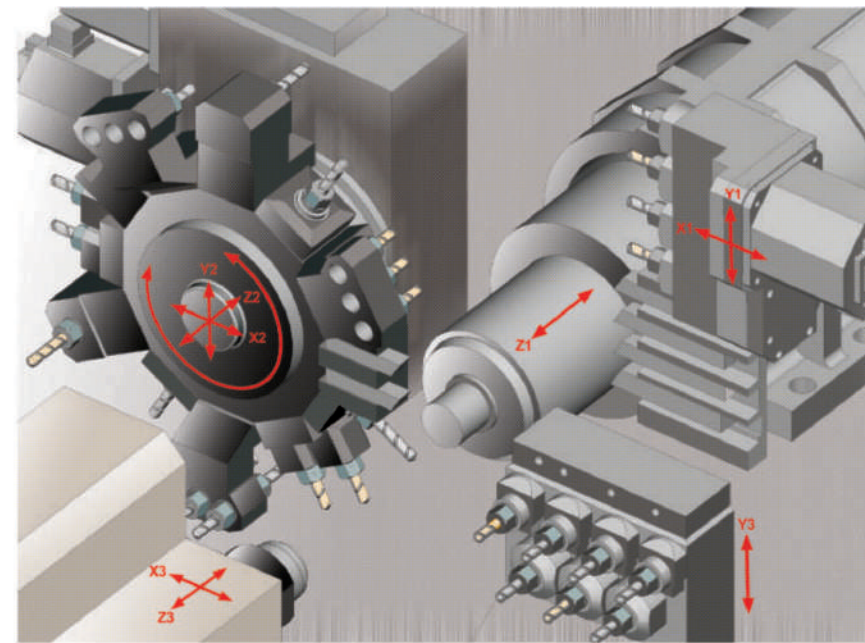


NEXTURN
SWISS TURN LEADER

NST38/45/56



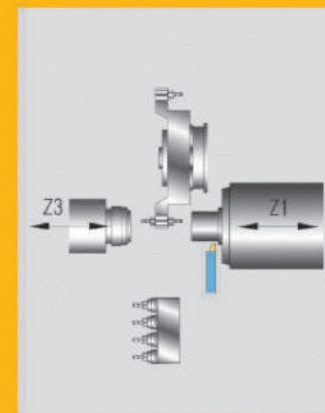
New Winner of Multi Axis
Multi Channel Complex Machining



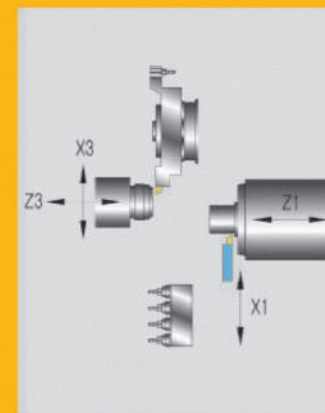
Maximized Machining capacity
for complex parts
with various bar materials.

- 8 or 12 station turret with independent drive mechanism.
- Minimized cycle time with 3 path control
- Complete machining by mounting maximum 39 tools.
- More powerful motors for main spindle and sub spindle.
- Equipped many Optional NC functions as standard features.
- Optimized tooling system for high precision machining capability
- Guide bush & Non-Guide bush Interchangeable system, Applied for NST38

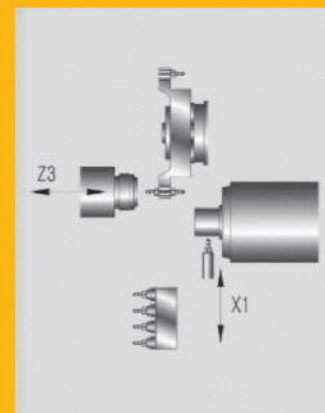
Reduced cycle time with 3 path control
Various simultaneous machining



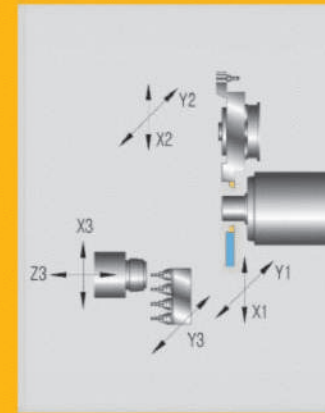
front, back simultaneous
drilling (Z1, Z3)



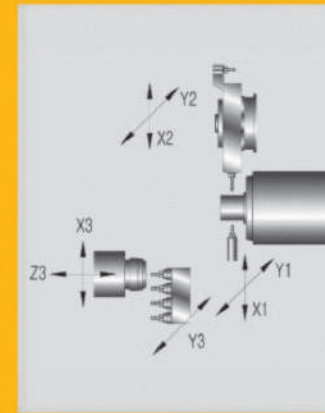
front, back simultaneous
turning (Z1+X1, Z3+X3)



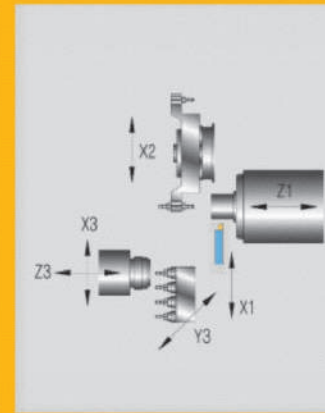
cross, back simultaneous
drilling (X1, Z3)



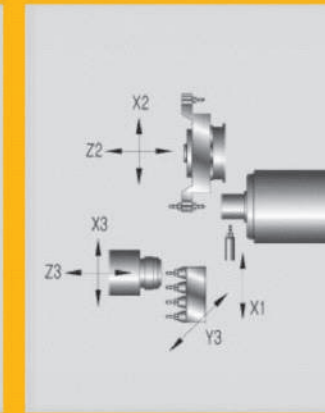
Balance turning +
Back tool machining
(X1+Y1+X2+Y2, Z3+X3+Y3)



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



Simultaneous turning, milling
+ Back tool machining
(Z1+X1+X2, Z3+X3+Y3)



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

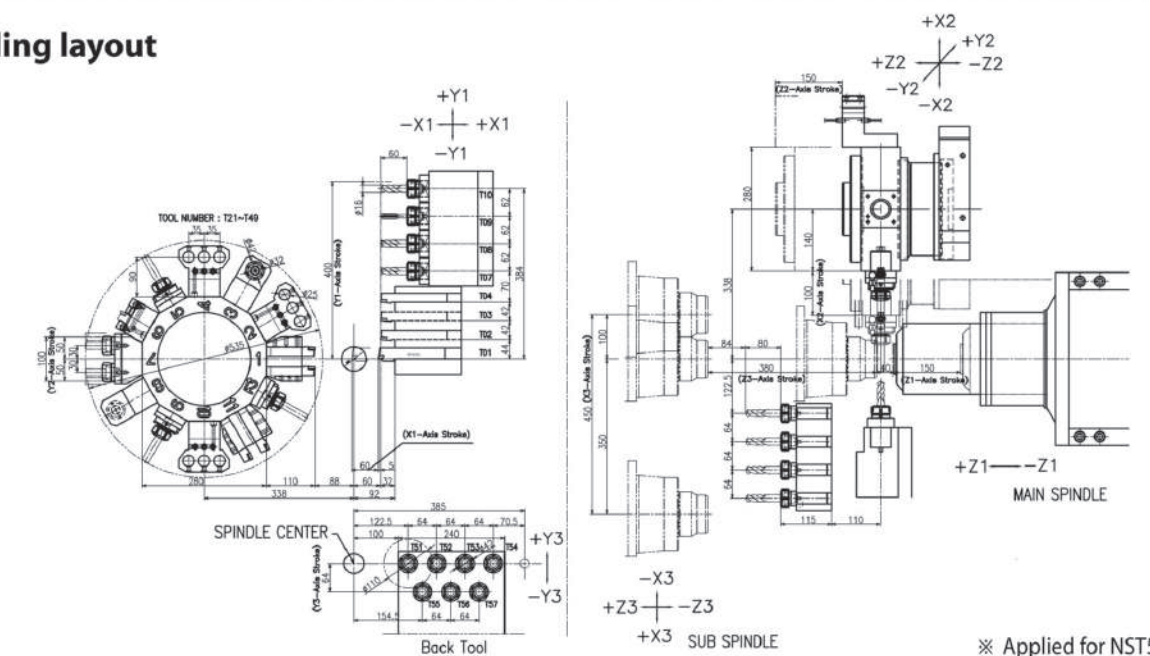
Various NC Optional functions supplied
as standard accessories

- Chasing Function
- Manual pulse generator
- Memory card I/O interface
- RS232C I/O interface (optional)
- Background editing
- Run time / parts number display
- Custom macro
- Constant surface speed control
- Spindle synchronous control
- Tool geometry / wear offset
- Programmable data input
- Chamfering and corner R
- Multiple repetitive cycle
- Expanded program editing
- Polar coordinate interpolation (optional)
- Cylindrical interpolation (optional)
- Direct drawing dimension input
- Inch / metric conversion
- Canned cycle for drilling
- Rigid tap (main spindle, back spindle)
- Rotary tool rigid tap (for tool on the turret) (optional)
- Rotary tool rigid tap (for cross drill on the tool post) (optional)
- Cut off detection (differential)
- Spindle speed fluctuation detection

Optional accessories

- Chip conveyor
- Automatic fire extinguisher
- High pressure pump (750W)
- Drilling head
- 2 spindle cross drilling head
- Angular drilling head
- Helical hopping head
- Milling head

Tooling layout



※ Applied for NST56

Lay-out

