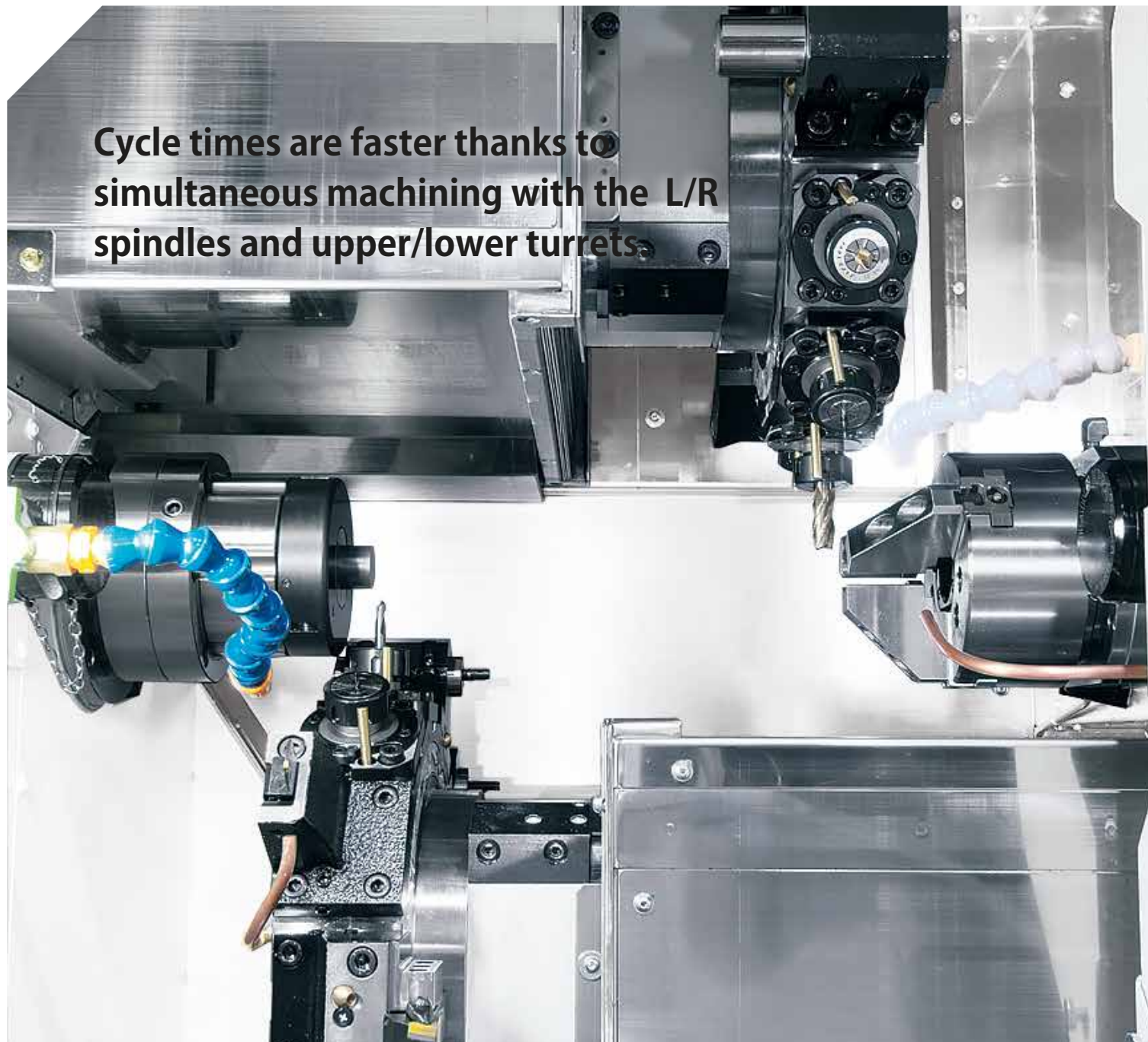


WT-150II

NAKAMURA-TOME
PRECISION INDUSTRY CO.,LTD.

Cycle times are faster thanks to simultaneous machining with the L/R spindles and upper/lower turrets.



Stable cutting capacity ensured

Upper turret



Cutting sectional area : 3.6mm²
Cutting depth : 6mm
Feed : 0.6mm/rev
Spindle speed : 1,270min⁻¹
Material : S45C (JIS)



Cutting sectional area : 2mm²
Cutting depth : 5mm
Feed : 0.4mm/rev
Spindle speed : 1,270min⁻¹
Material : S45C (JIS)

Metal Removal Rate **432** mL/min

Lower turret



Cutting sectional area : 3.3mm²
Cutting depth : 6mm
Feed : 0.55mm/rev
Spindle speed : 1,270min⁻¹
Material : S45C (JIS)



Cutting sectional area : 2mm²
Cutting depth : 5mm
Feed : 0.4mm/rev
Spindle speed : 1,270min⁻¹
Material : S45C (JIS)

Cycle times are faster thanks to simultaneous machining with the L/R spindles and upper/lower turrets.

Since the upper and lower index units are mounted on individual saddles as well as the right spindle unit, they can move freely without limitations. This realizes your ideal machining, such as L/R machining balance adjustment, reduction of cycle times, process optimization, etc.



WT-150II has two-opposed spindles, milling on both turrets and a Y-axis on the upper side, ensuring that flexible machining is performed simultaneously on either spindle with the upper and lower turrets. A wide range of parts can be machined faster from bar, shaft, or flange work. In addition, the Super Mill (Milling high power/High torque motor) specification contributes to higher chip removal capability and cycle time reduction thanks to the increased milling capacity.

A full range of software is also available, such as programming support, tool-management, and setup support. This machine supports customers' production in terms of both hardware and software.

L-spindle

Standard	
Bar capacity	φ 51mm
Spindle motor	15/11kW 5,000min ⁻¹

Option	
Bar capacity	φ 65mm
Spindle motor	15/11kW 4,500min ⁻¹

R-spindle

Standard	
Bar capacity	φ 51mm
Spindle motor	11/7.5kW 5,000min ⁻¹



Upper turret

Standard	
Type of turret head	Dodecagonal drum turret
Number of tool stations	12
Number of indexing positions	24

Option	
Milling motor	5.5/3.7kW 6,000min ⁻¹
Tool size	φ 1-16mm

Option (Super Mill)	
Milling motor	7.5/3.7kW 6,000min ⁻¹
Tool size	φ 1-20mm

Option	
Y-axis slide travel	± 35mm

Cycle times are faster thanks to simultaneous machining with the L/R spindles and upper/lower turrets.



Lower turret

Standard	
Type of turret head	Dodecagonal drum turret
Number of tool stations	12
Number of indexing positions	24

Option	
Milling motor	5.5/3.7kW 6,000min ⁻¹
Tool size	φ 1-16mm

Option (Super Mill)	
Milling motor	7.5/3.7kW 6,000min ⁻¹
Tool size	φ 1-20mm



NT SmartX

Ease of use and reliability for an outstanding operator support
Powered by AI as standard features

- NT Thermo Navigator AI
- 3D Smart Pro AI



Parts catcher type G Option

			φ 51	φ 65
Method			Swing/Hand	
Workpiece size	Diameter	mm	φ 12-51	φ 12-65
	Length	mm	12-150	
	Weight	kg	3.0	
Ejecting method			Belt conveyor & Chute	



Parts catcher A

High rigidity Y-axis slide

The upper machine structure is designed with the Y-axis in mind. The high rigidity of the machine ensures maximum stability during heavy-duty turning and milling with full power.

Super Mill (op.) High-output(7.5/3.7kW) and high-torque(40N/m) motor specifications available!



WT-150II

Machine Specification

Capacity	φ51mm	φ65mm(op.)
Max. turning diameter	190mm	
Standard turning diameter	170mm	
Distance between spindles	max. 800mm / min. 200mm	
Max. turning length	515mm	
Bar capacity	φ51mm	φ65mm (L only)
Chuck size	6", 8"*	

Axis travel/Rapid feed

X1 / X2 axis slide travel	167.5mm / 167.5mm	152.5mm / 167.5mm
Z1 / Z2 axis slide travel	515mm / 515mm	
Y-axis slide travel (op.)	±35mm	
B2-axis slide travel	600mm	
X1 / X2 axis rapid feed rate	20m/min	
Z1 / Z2 axis rapid feed rate	40m/min	
Y-axis rapid feed rate (op.)	6m/min	
B2-axis rapid feed rate	40m/min	

L-spindle

Spindle speed	5,000min ⁻¹	4,500min ⁻¹
Spindle speed range	Stepless	Stepless
Spindle nose	A2-5	A2-6
Hole through spindle	63mm	80mm
I. D. of front bearing	90mm	110mm
Hole through draw tube	52mm	66mm

R-spindle

Spindle speed	5,000min ⁻¹	—
Spindle speed range	Stepless	—
Spindle nose	A2-5	—
Hole through spindle	63mm	—
I. D. of front bearing	90mm	—
Hole through draw tube	52mm	—

* Tooling Restriction

● Safety quality specifications

Various interlocks, such as safety fences, auto extinguisher devices, and other safety related equipment may be required. These have to be selected during the configuration of the machine.

① Safety devices include electromagnetic door lock, chuck interlock, hydraulic pressure switch, air pressure switch, short circuit breaker and quill interlock. (Door interlock and chuck interlock are standard equipment.)

② In case of automation, various safety fences may be required, such as work stocker safety fences, robot safety fences, ...etc.

During the configuration of machine specifications, please discuss these requirements with the Nakamura-Tome machine sales representative.

C-axis (op.)

Least input increment	0.001°
Least command increment	0.001°
Rapid speed	600min ⁻¹
Cutting feed rate	1 - 4,800° /min
C-axis clamp	Disk clamp
C-axis connecting time	1.5sec.

Upper and Lower turret

Type of turret head	Dodecagonal drum turret
Number of tool stations	12
Number of indexing positions	24
Tool size (square shank)	□25mm
Tool size (round shank)	φ32mm

Milling (op.)

	5.5/3.7kW	Super Mill(7.5/3.7kW)
Rotary system	Individual rotation	
Milling spindle speed	6,000min ⁻¹	
Spindle speed range	Stepless	
Number of milling stations	12	
Holder type and tool size	Straight	φ1mm - φ16mm φ1mm - φ20mm
	Cross	φ1mm - φ16mm φ1mm - φ20mm

Drive motor

L-spindle	15/11kW	
R-spindle	11/7.5kW	
Milling(op.)	5.5/3.7kW	7.5/3.7kW

General

Height	1,858.5mm	1,860.2mm
Floor space (W × D)	3,675mm × 2,258.2mm	3,675mm × 2,263.9mm
Machine weight (Incl. control)	9,000kg	

● Precautions on the use of cutting fluids and lubricating oils

Some types of cutting fluids (coolant) are harmful to machine components, causing damages such as peeling of paint, cracking of resin, expanding of rubber, corrosion and rust build up on aluminum and copper. To avoid causing damage to the machine, never use synthetic coolants, or any coolants containing chlorine. In addition, never use coolants and lubricating oils which contain organic solvents such as butane, pentane, hexane and octane.

Machine warranty terms are void for any claims or damage arising from the use of inappropriate cutting fluids or lubricating oils.

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