



NT-Flex



PROVIDING NAKAMURA-TOME SOLUTIONS
SINCE 1983

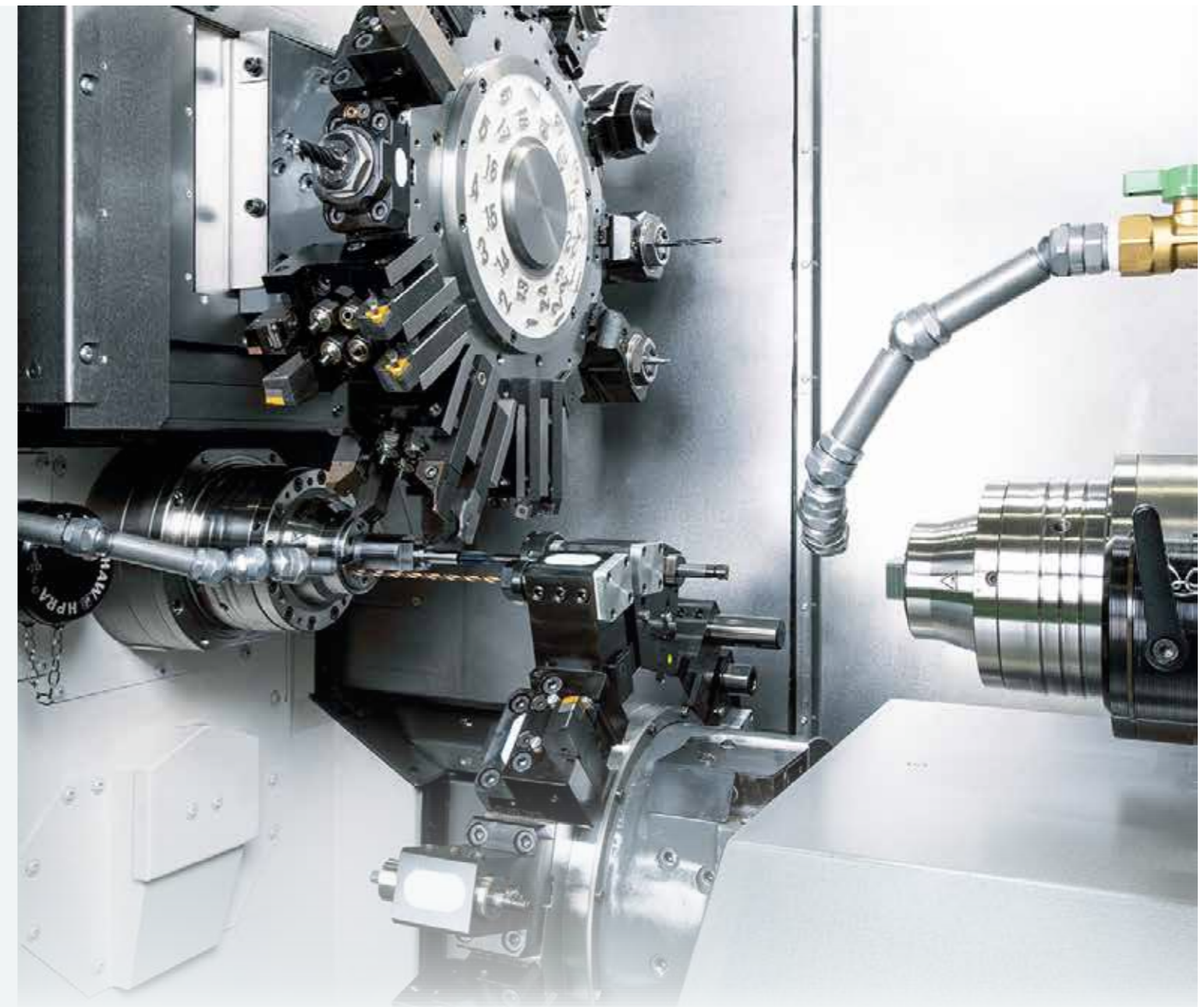
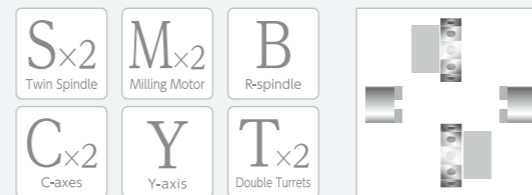
Compact Meets Flexibility

Innovative Technology

~Creating new values~

NT-Flex

Packed with exceptional value in a single CNC lathe. The 2-spindle, 2-turret precision CNC multitasking lathe "NT-Flex" makes its debut. This compact machine, equipped with flexible machining capabilities and a wide range of software, will turn your demands into reality.

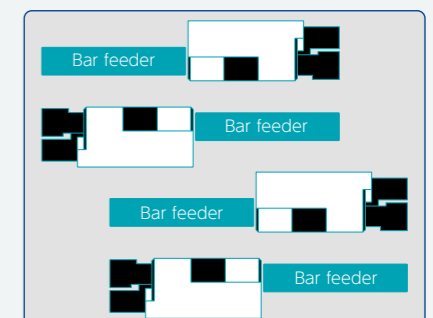


Compact

Surprisingly compact with a depth of just 1.38m! It allows you to position the machine neatly in limited space without wasting any area.



Factory



Flexible

The NT-Flex is versatile and works with a wide range of materials. It processes everything from bar stock and cut materials to black iron, castings, and forgings.



It is compact yet accommodates 24-station turrets in both the upper and lower areas. By utilizing quadruple tool holders, you can set up a maximum of 96 tools, ensuring the completion of all processes, including turning, milling, and gear machining.

We offer a variety of automation systems, providing optimal automation solutions tailored to meet users' production demands.



Bar feeder



Parts catcher type G



Chip conveyor

The discharge position can be selected from the following three options.
 • Side
 • Right side & Rear



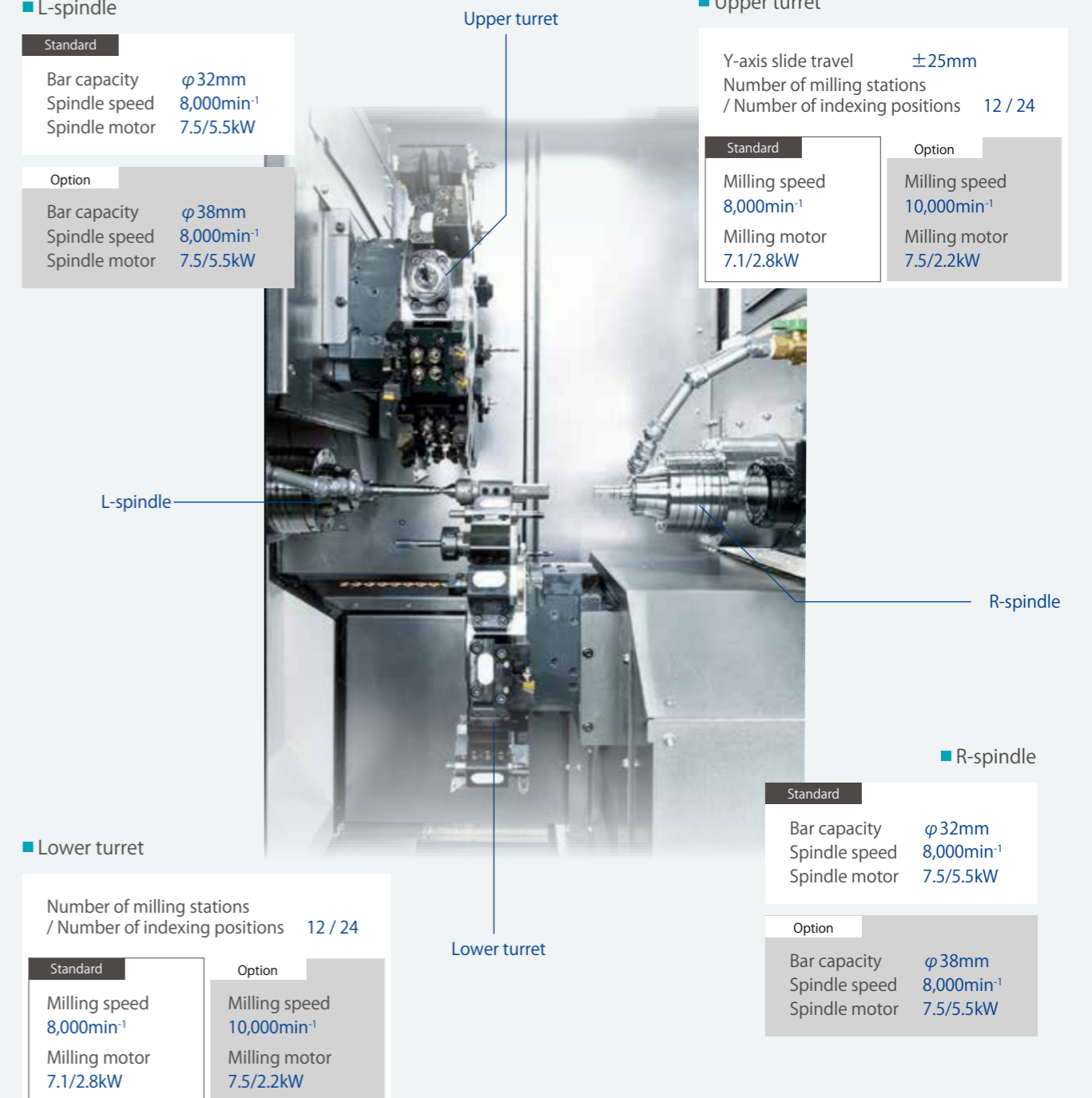
Cycle Times are Faster Thanks to Simultaneous Machining with the L/R Spindles and Upper/Lower Turrets.

L-spindle

Standard	
Bar capacity	φ 32mm
Spindle speed	8,000min ⁻¹
Spindle motor	7.5/5.5kW
Option	
Bar capacity	φ 38mm
Spindle speed	8,000min ⁻¹
Spindle motor	7.5/5.5kW

Upper turret

Y-axis slide travel	±25mm		
Number of milling stations / Number of indexing positions	12 / 24		
Standard		Option	
Milling speed	8,000min ⁻¹	Milling speed	10,000min ⁻¹
Milling motor	7.1/2.8kW	Milling motor	7.5/2.2kW



Lower turret

Number of milling stations / Number of indexing positions	12 / 24		
Standard		Option	
Milling speed	8,000min ⁻¹	Milling speed	10,000min ⁻¹
Milling motor	7.1/2.8kW	Milling motor	7.5/2.2kW

R-spindle

Standard	
Bar capacity	φ 32mm
Spindle speed	8,000min ⁻¹
Spindle motor	7.5/5.5kW
Option	
Bar capacity	φ 38mm
Spindle speed	8,000min ⁻¹
Spindle motor	7.5/5.5kW

■ Capacity	φ32	φ38(op.)
Max. turning diameter	φ150mm	
Distance between spindles	max. 655mm / min. 200mm	
Max. turning length	250mm	
Bar capacity	φ32mm	φ38mm
Chuck size	5"	

■ Axis travel	
X1 / X2axis slide travel	110.5mm
Z1 / Z2 axis slide travel	455mm
Y1-axis slide travel	±25mm
B2-axis slide travel	455mm

■ Rapid feed	
X-axis rapid feed rate	24m/min
Z-axis rapid feed rate	32m/min
Y-axis rapid feed rate	20m/min
B2-axis rapid feed rate	32m/min

■ L / R spindle	
Spindle speed	8,000min ⁻¹
Spindle speed range	Stepless
Spindle nose	A2-5
Hole through spindle	47mm
I.D. of front bearing	70mm
Hole through draw tube	33mm 39mm

■ C-axis	
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	1.5s

■ Upper/Lower turret	φ32	φ38(op.)
Type of turret head	Dodecagonal drum turret	
Number of indexing positions	24	
Tool size (square shank)	□20mm / □16mm(24st)	
Tool size (round shank)	φ20mm	

■ Milling	
Rotary system	Individual rotation
Milling spindle speed	8,000min ⁻¹ / 10,000min ⁻¹ (op.)
Spindle speed range	Stepless
Number of milling stations	12 × 2
Holder type and Tool size	Straight holder φ1mm - φ14mm
	Cross holder φ1mm - φ14mm

■ Drive motor		
L-spindle	7.5/5.5kW	
R-spindle	7.5/5.5kW	
Milling	8,000min ⁻¹	7.1/2.8kW (16.5N·m)
	10,000min ⁻¹ (op.)	7.5/2.2kW (17.5N·m)

■ General	
Height	2,010mm
Floor space (W × D)	3,500mm × 1,380mm
Machine weight (incl. control)	6,500kg

■ Power supply	
Power supply	31.3kVA

● 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 the 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.

● 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, expansion 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.



<https://www.nakamura-tome.com>

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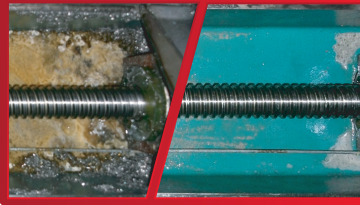
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