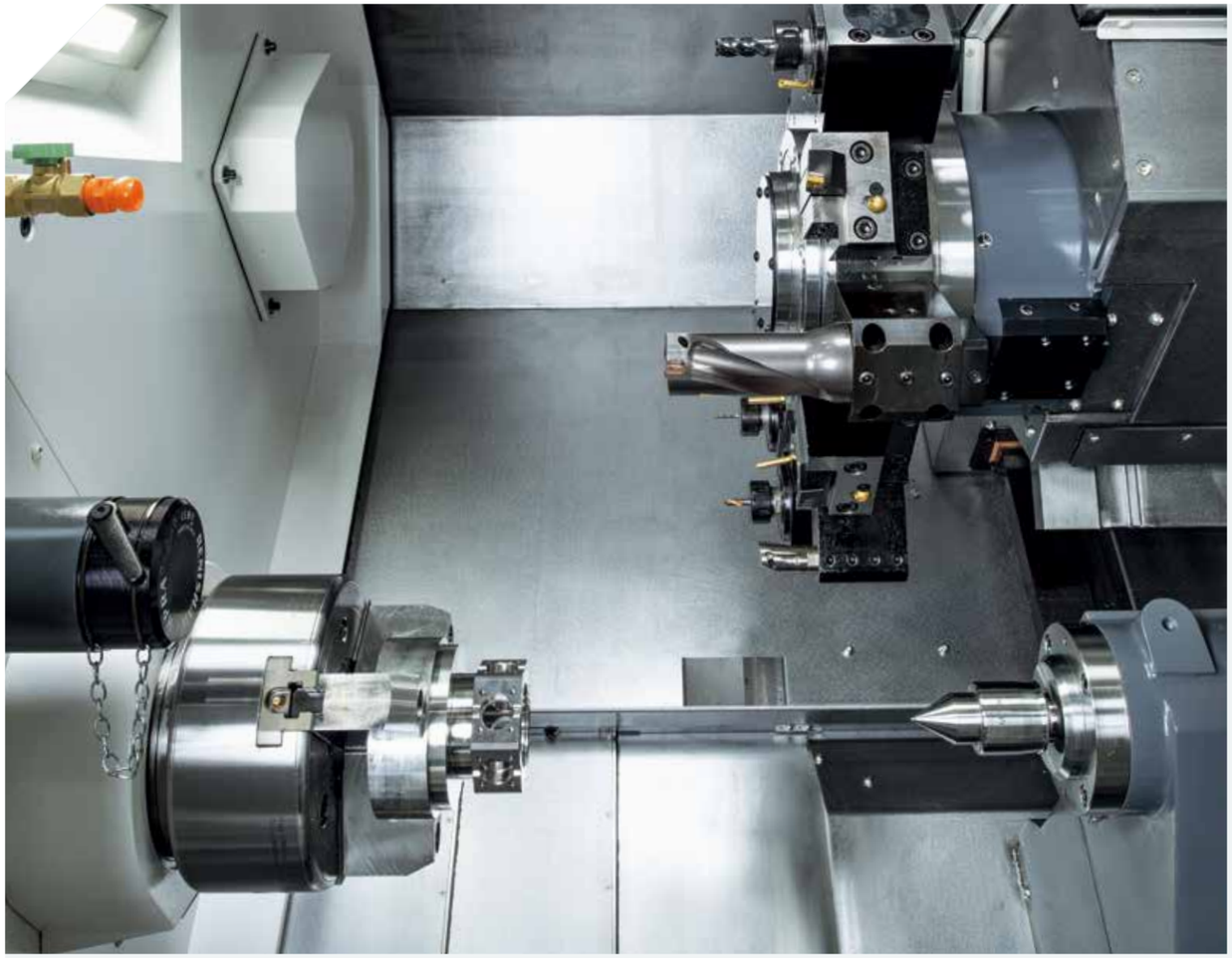
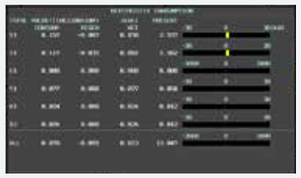
SC-200Ⅱ

NAKAMURA-TOME
PRECISION INDUSTRY CO.,LTD.

8" class precision CNC multitasking lathe



Nakamura-Tome is committed to the environment as an eco-friendly manufacturer



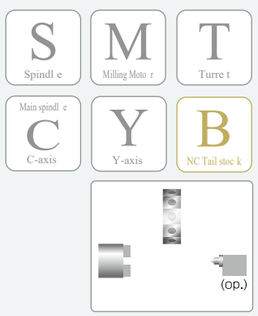
Power consumption monitoring screen

Equipped with a power regeneration system that returns energy to the power source when the motor decelerates.

Next level machining

It carries out great machining rigidity and stability, with a highly rigid slant bed with box-way slides.

Although it is an 8" class machine, it holds a maximum turning diameter of 390mm and a tool swinging diameter of 620mm, thus ensuring a machining area equivalent to that of a 10" class machine.
The output of the spindle motor has been increased to 15/11kW (Op. 18.5/15kW) making it superior to the previous model. In addition to the improved spindle motor output, the Bar capacity and Y-axis slide travel have also been improved to give it the ability to achieve one-rank higher machining capacity.



Inverter-Driven Hydraulic Power Unit

Cut down power consumption by approx. 21%

* Reference figure when hydraulic power is ON

Reduction of lubrication oil consumption

Cut down lubricating oil consumption by approx. 54%

* Compared with SC-200

Recovery rate of waste oil

Standard approx. 43.7%

NC tailstock approx. 34.1%

* Expected figure

Nakamura-Tome

SC-200II

8" class precision CNC multitasking lathe

Easier to use, more efficient
Next level machining

■ Main spindle

Standard	Option	Option	Option
Bar capacity Φ65mm Spindle speed 4,500min^{-1}		Bar capacity Φ71mm Spindle speed 4,500min^{-1}	
Spindle motor 15/11kW	Spindle motor 18.5/15kW	Spindle motor 15/11kW	Spindle motor 18.5/15kW

■ Turret

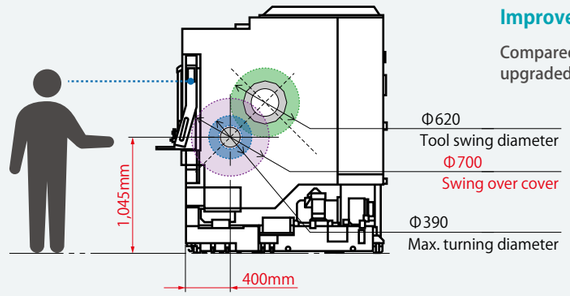
Standard	Option
Y axis slide travel ±50mm Milling spindle speed 6,000min^{-1} Milling motor 5.5/3.7kW	
Type of turret head Dodecagonal Number of milling stations / Number of indexing positions 12 / 24	Type of turret head Hexadecagon Number of milling stations / Number of indexing positions 16 / 16

Milling and Y-Axis standard

The Tailstock body movement is program controlled by the NC control servo drive. The setting can be easily done on the NT NURSE screen for a maximum of 12 settings.

■ Tailstock(op.)

Option	
Driving system	NC control servo-driven type
Quill taper	MT-4(Rotating center), MT-3(Built-in center)
Range of thrust force	2.5 - 6.5kN



Improved swing, and machining diameters

Compared to the previous model, the machining product range has been upgraded, giving it the ability to perform one-rank higher machining.

Stress-free

For best accessibility, the distance from machine front to spindle, and the spindle height have been improved. The control panel height was designed for optimum operator comfort. Ergonomically designed for a more comfortable posture.

Nakamura-Tome FANUC 0i-TF Plus 15 inch touch screen

With a movable operation panel, the angle can now be adjusted by the operator.

Tool setter(op.)

Can be configured for a detachable, or for an automatic swing-down type tool setter.

Chip conveyor(op.)

Can be configured for ejection from the side or from the back.

Parts catcher type A(op.)

Discharging of remnants and finished parts can be automated.

Option	
Diameter	Φ22 - Φ71mm
Length	20 - 150mm
Weight	0.1 - 3.0kg

User friendry

Redesigned to make it easier to refill the lubrication oil tank.

GR-203 High-Speed(op.)

The whole process from loading a blank material to unloading a finished part can be automated.

* The image is of NTY^3-100.

Machine Specification

SC-200Ⅱ

■ Capacity

		Φ65	Φ71(op.)
Max. turning diameter	12st	390mm	
	16st(op.)	340mm *1	
Distance between centers(op.)		max.510mm / min.205mm	
Max. turning length		317.8mm	
Bar capacity		Φ65mm	Φ71mm
Chuck size		8"	10"

■ Axis travel

X-axis slide travel	242mm
Z-axis slide travel	375mm
Y-axis slide travel	±50mm *2

■ Rapid feed

X-axis rapid feed rate	24m/min
Z-axis rapid feed rate	36m/min
Y-axis rapid feed rate	6m/min *2

■ Main spindle

Spindle speed	4,500min^{-1}	4,500min^{-1}
Spindle speed range	Stepless	Stepless
Spindle nose	A2-6	A2-6
Hole through spindle	80mm	80mm
I.D. of front bearing	110mm	110mm
Hole through draw tube	66mm	72mm

■ 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

■ Turret

Type of turret head	12st	Dodecagonal
	16st(op.)	Hexadecagon *1
Number of Indexing positions	12st	24
	16st(op.)	16 *1
Tool size (square shank)		□20mm, □25mm
Tool size (round shank)		Φ25mm, Φ32mm

■ Milling

Rotary system		Individual rotation
Milling spindle speed		6,000min^{-1}
Spindle speed range		Stepless
Number of milling stations	12st	12
	16st(op.)	16 *1
Tool size		Straight holder Φ1mm- Φ16mm
		Cross holder Φ1mm- Φ16mm

■ Tailstock (op.)

Driving system	NC control servo-driven type
Travel	305mm
Rapid feed	8m/min
Quill taper	MT-4(Rotating center), MT-3(Built-in center)
Quill diameter / Quill stroke	-
Range of thrust force	2.5-6.5kN

■ Drive motor

Main spindle motor	15/11kW , 18.5/15kW(op.)
Milling motor	5.5/3.7kW

■ General

Height	2,125mm
Max. height of movable part	2,225mm
Floor space (L x W)	3,195mm ×1,967mm
Machine weight (incl. control)	7,500kg

■ Power requirements

Power supply	24.0kVA(26.9kVA) (Main spindle 15/11kW)
	27.3kVA(30.2kVA) (Main spindle18.5/15kW)

*1 16st cannot be selected for specifications without milling
*2 Y-axis cannot be selected for specifications without milling
With or without Y-axis can be selected for specifications with milling

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