

# WY-100V

NAKAMURA-TOME  
PRECISION INDUSTRY CO.,LTD.

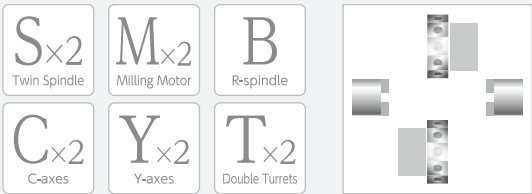
Faster than  
the fastest

Innovative  
Technology

~Creating new values~

# WY-100V

The first of the "V series" multitasking machines, with speed as the design concept behind it.  
Y-axis on the upper/lower turret and opposed twin spindles are standard equipment.  
Enhanced processing capabilities and simultaneous left/right and upper/lower machining reinforce speedy production.  
Furthermore, we have made software improvements to reduce idle time. It strives to be faster than the fastest that customers have ever experienced.



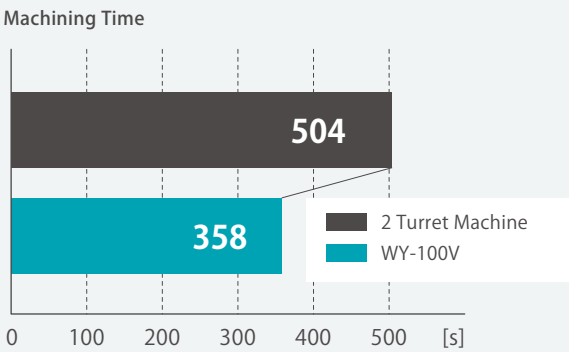
## 30% Reduction in Cycle Time

Starting with the implementation of "ChronoCut" to reduce processing idle time, numerous new technologies have been incorporated to enhance production speed.



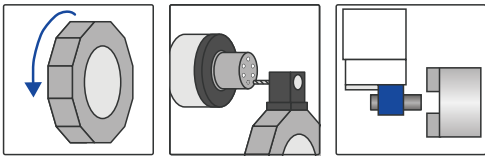
### Hydraulic valve component (sample)

Material	S45C
Material Size	φ51mm×L75mm

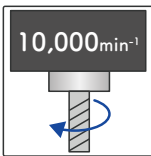


### ChronoCut

A unique function by Nakamura-Tome designed to reduce idle time. This new software minimizes idle time during manufacturing without compromising accuracy, even without any changes to the cutting conditions.

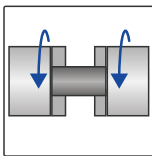


- High-speed indexing
- High-speed spindle synchronization
- Execution of multiple M-codes within the same block
- High-speed rigid tapping
- Reduction of PC-G unloading time, etc.



#### UP Machining conditions

By improving the machining capabilities of the milling speed, torque, and more, the machine achieves high performance under demanding conditions.



#### UP Acceleration / Deceleration

The acceleration and deceleration during starting and stopping have been improved, enabling quick attainment to the maximum speed.

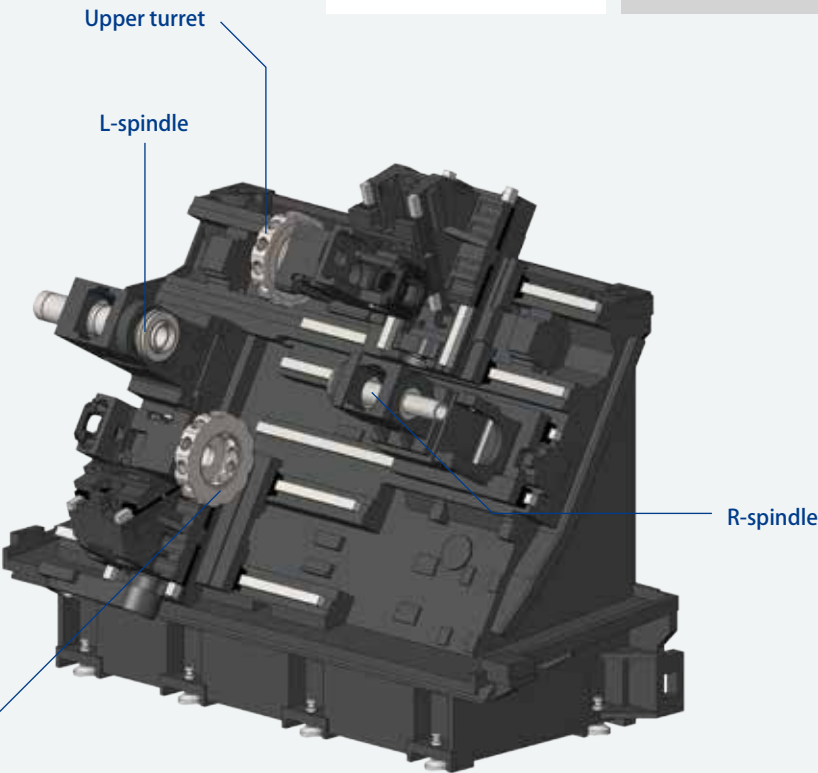
Cycle Times are Faster Thanks to Simultaneous Machining with the L/R Spindles and Upper/Lower Turrets.

L-spindle

Standard	
Bar capacity	φ42mm
Spindle speed	6,000min <sup>-1</sup>
Spindle motor	11/7.5kW
Option	
Bar capacity	φ51mm
Spindle speed	6,000min <sup>-1</sup>
Option	
Spindle motor	11/7.5kW
Option	
Bar capacity	φ65mm
Spindle speed	5,000min <sup>-1</sup>
Option	
Spindle motor	11/7.5kW
Option	
Spindle motor	15/11kW

Upper turret

Standard		Option	
Milling speed	6,000min <sup>-1</sup>	Milling speed	10,000min <sup>-1</sup>
Milling motor	7.1/2.2kW	Milling motor	7.5/2.2kW
Dodecagonal drum turret		15-station turret	
Y-axis slide travel	±42mm	Y-axis slide travel	±31mm
Number of milling stations / Number of indexing positions	12 / 24	Number of milling stations / Number of indexing positions	15 / 15



Lower turret

Standard		Option	
Milling speed	6,000min <sup>-1</sup>	Milling speed	10,000min <sup>-1</sup>
Milling motor	7.1/2.2kW	Milling motor	7.5/2.2kW
Dodecagonal drum turret		15-station turret	
Y-axis slide travel	±32.5mm	Y-axis slide travel	±31mm
Number of milling stations / Number of indexing positions	12 / 24	Number of milling stations / Number of indexing positions	15 / 15

Y-axis and Milling are standard.



R-spindle

Standard		Option	
Bar capacity	φ42mm	Bar capacity	φ51mm
Spindle speed	6,000min <sup>-1</sup>	Spindle speed	6,000min <sup>-1</sup>
Spindle motor	11/7.5kW	Spindle motor	11/7.5kW
Option		Option	
Spindle motor	11/7.5kW	Spindle motor	15/11kW

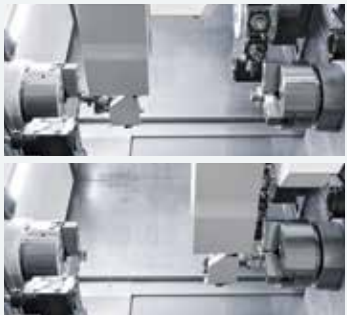
GR-203 High-Speed(op.)

The entire process from loading the blank material, to unloading a finished part, can be automated.  
\* The image is of NTY<sup>3</sup>-100.



Compact Loader(op.)

The entire process from loading the blank material, to unloading a finished part, can be automated.

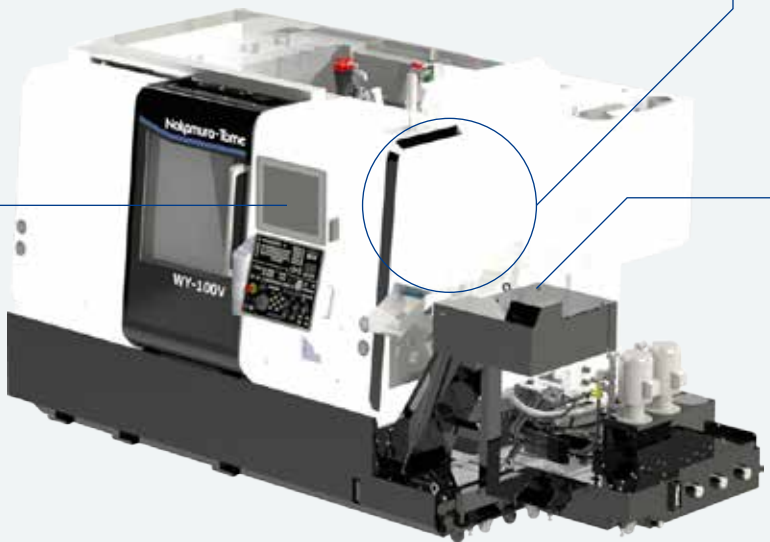


Parts catcher type G(op.)

Unloading a finished part can be automated.



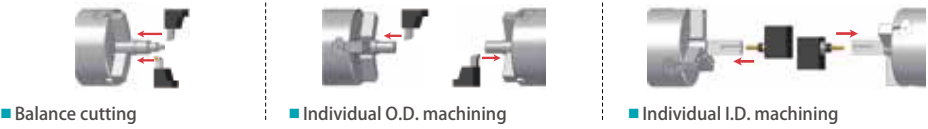
NT SmartX  
19 inch touch screen



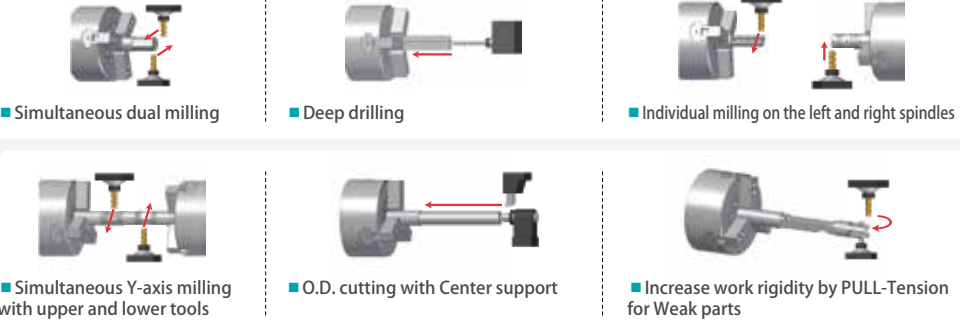
Chip conveyor(op.)

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

Turning



Milling



Eco Friendly

Addition of ECO mode functions to NT SmartX

- Monitor OFF-TIMER <min>
- Machine Light OFF-TIMER <min>
- Servo Power Supply OFF-TIMER <min>
- Motor acc./dec. output limitation <%>

Improvement of the power control system

- The fan motor stops except during auto operation
- Grease lubrication for all axes
- Inverter-controlled hydraulic unit
- Dry brake
- Regenerative energy





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