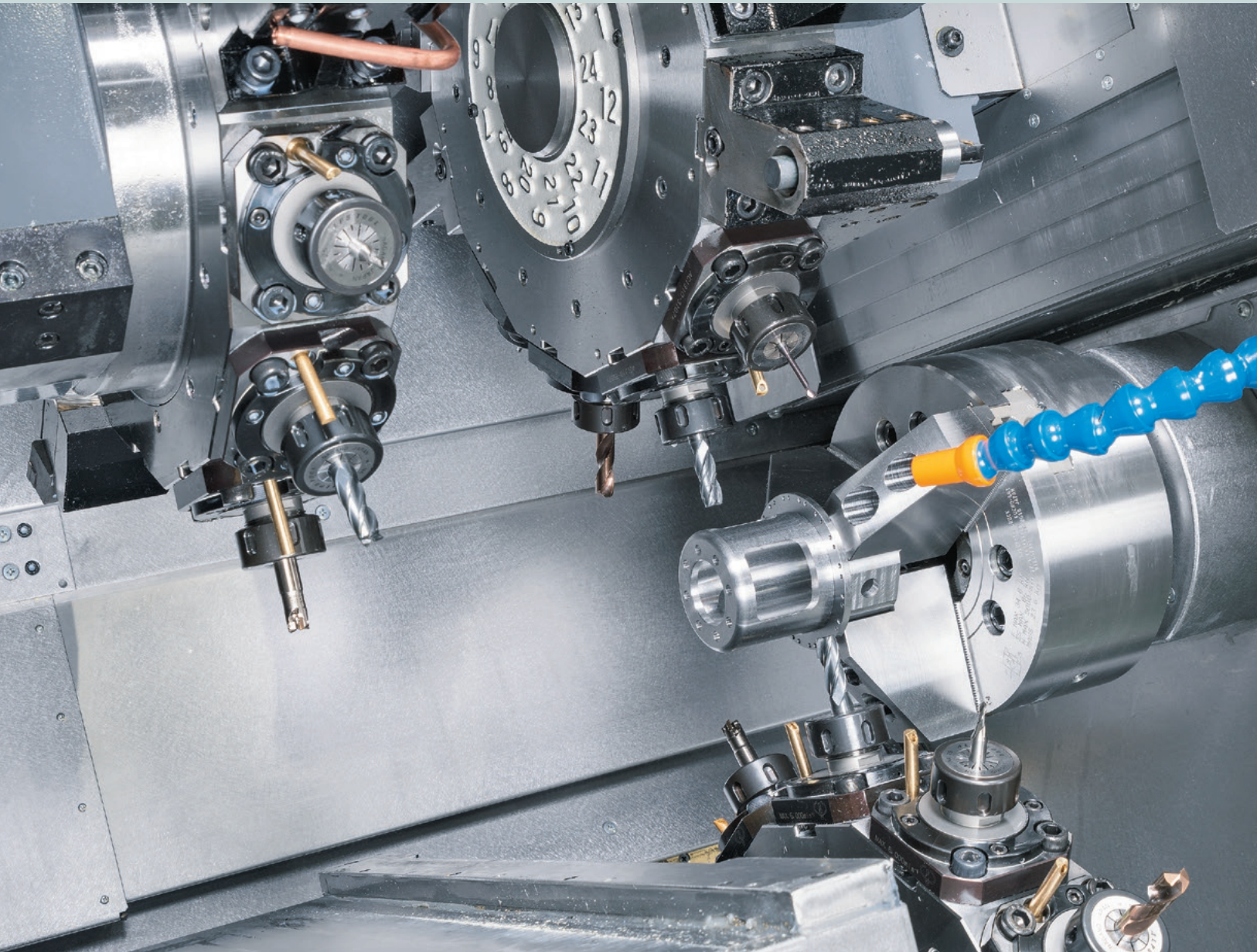


GENERAL CATALOG

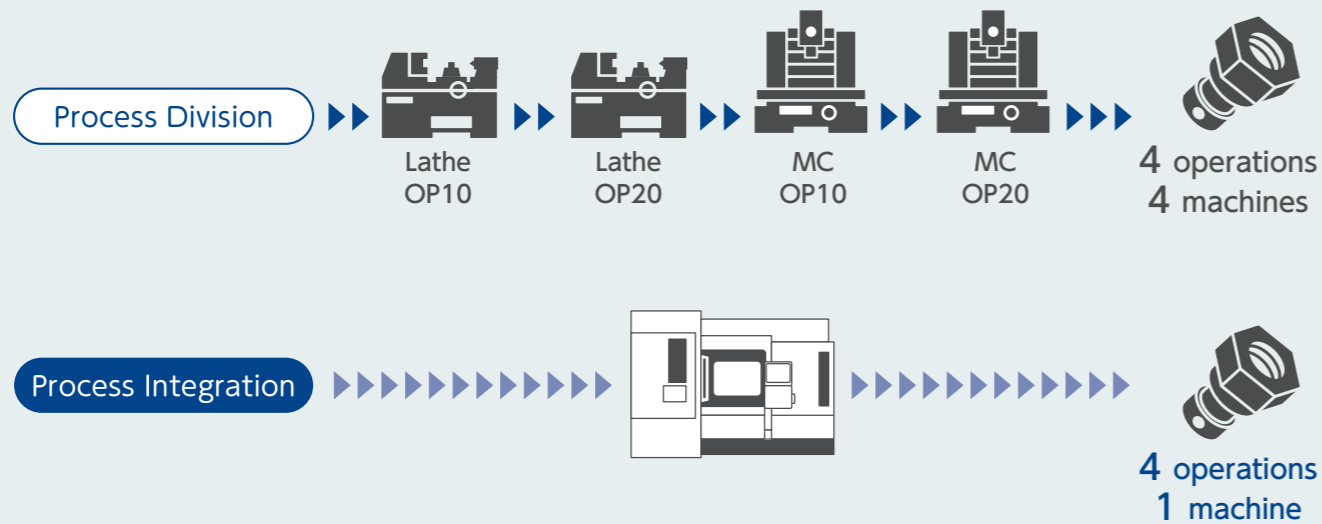


NAKAMURA-TOME
PRECISION INDUSTRY CO.,LTD.

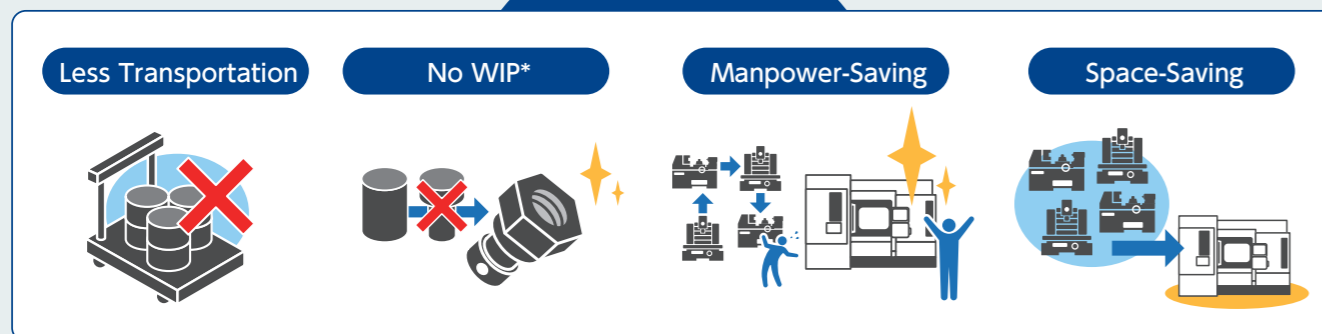
From Blank Materials to Finished Products in ONE MACHINE

Nakamura-Tome's multitasking machines can handle various processing methods such as turning, milling, hobbing, and more. In other words, even for workpieces with multiple processing steps, it is possible to process everything to the finished products with just one machine by simply loading blank materials. These are some of the many benefits of making a part complete with a single multitasking machine:

- Reduction of Transportation costs.
- Reduction of Work-in-progress inventory.
- Reduction of Operator man-hours.
- Reduction of Floor space, etc.



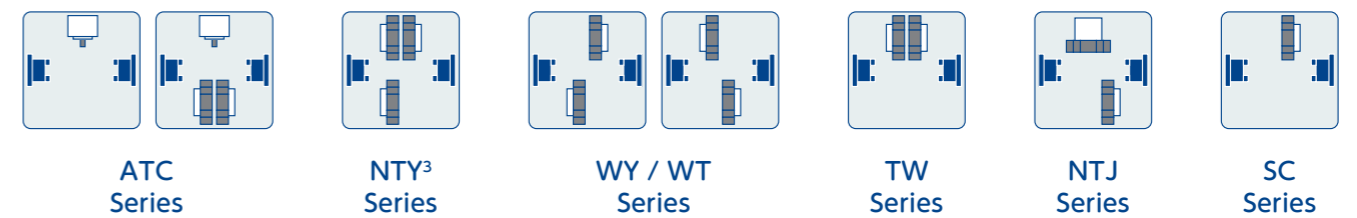
Benefits



* WIP: Work-in-progress



Product Line-up



We meet our customers' needs with a wide range of machine configurations in our lineup and strong adaptability to work requirements.

* The photos of the machines shown in the chart include some options.



		JX-200			JX-250			
Unit		φ51	φ65	φ80(op.)	φ65	φ71(op.)	φ80(op.)	φ90(op.)*1
Capacity								
Max. turning diameter / Max. turning length	mm	325 / 1,058			320 / 1,650			320 / 1,587
Distance between spindles [max. / min.]	mm	1,250 / 240			1,850 / 300			1,787 / 237
Distance between centers [max. / min.]	mm	-			-			-
Bar capacity	L	-	φ65	φ80(op.)	-	-	-	-
	R	φ51	φ65(op.)	-	φ65	φ71(op.)	φ80(op.)	φ90(op.)
Chuck size	inch	6.8"			8", 10", 12", 15"			
Slide travel								
Y-axis slide travel	mm	Y1: ±105 / Y2: ±35			Y1: ±125 / Y2: ±40 (op. Y3: ±40)			Y1: ±125 / Y2: ±40 / -
B2-axis slide travel	mm	770			1,550			
L/R spindle								
Spindle speed	L	-	4,500	3,500	4,500	4,500	3,500	2,500
	R	6,000	4,500(op.)	-	4,500*2	4,500	-	-
Spindle motor	L	-	15/11	18.5/15	18.5/15		18.5/15, 22/18.5	22/18.5
	R	11/7.5	15/11 (op.)	-	18.5/15	18.5/15, 15/11	-	-
Tailstock(op.)								
Driving system	-	-			-			
Quill taper	-	-			-			
Range of thrust force	kN	-			-			
Tool spindle								
Tool spindle speed	min ⁻¹	12,000 (op. 18,000)			12,000 (op. 18,000)			
Tool spindle motor	kW	15/11			22/15			
B-axis swiveling range	-	±95°			±120°			
Tool coupling type	-	CAPTO C6 (op. HSK-T63)			CAPTO C6 (op. HSK-T63)			
ATC								
Number of tools	-	80 (op. 40, 120)			80 (op. 40, 120)			
Long-tool ATC storage capacity / Length(op.)	- / mm	-			-			
Lower turret								
Number of turrets	-	1			1 (op. 2)			
Type of turret head / Number of indexing pos.	-	Dodecagonal drum turret / 24			Dodecagonal drum turret / 24			
Milling spindle speed	min ⁻¹	6,000 (op. 8,000)			6,000			
Milling motor	kW	5.5/3.7			5.5/3.7			
General								
Machine Dimensions	Height	2,925			2,954			
	Width	5,250			5,578.5			
	Depth	2,987.2			3,257.7			
Machine weight (incl. control)	kg	23,000			23,000			

		MX-100		NTRX-300					NTRX-300L				
Unit		φ51	φ65(op.)	φ65	φ71(op.)	φ80A(op.)	φ80B(op.)	φ90(op.)	φ65	φ71(op.)	φ80A(op.)	φ80B(op.)	φ90(op.)
Capacity													
Max. turning diameter / Max. turning length	mm	305 / 834		640 / 1,100					640 / 1,600				
Distance between spindles [max. / min.]	mm	1,000 / 230		1,350 / 250					1,850 / 300 *5				
Distance between centers [max. / min.]	mm	-		1,225 / 125					1,725 / 175 *6				
Bar capacity	L	-	φ65(op.)	-	-	-	-	φ90(op.)	-	-	-	-	φ90(op.)
	R	φ51	-	φ65	φ71(op.)	φ80(op.) *3	φ80(op.) *4	φ80(op.) *4	φ65	φ71(op.)	φ80(op.) *3	φ80(op.) *4	φ80(op.) *4
Chuck size	inch	8"		8", 10"					8", 10"				
Slide travel													
Y-axis slide travel	mm	Y1: ±105 / Y2: -		±125					±125				
B2-axis slide travel	mm	770		1,100					1,550 (1,015 / Steady rest)				
L/R spindle													
Spindle speed	L	6,000	3,450	4,500	3,500	3,500	2,500	2,500	4,500	3,500	3,500	2,500	2,500
	R	11/7.5	15/11	15/11 / 22/18.5(op.)	22/18.5(op.)		-	-	15/11 / 22/18.5(op.)	22/18.5(op.)			
Spindle motor	L	11/7.5	-	15/11 / 22/18.5(op.)	22/18.5(op.)		-	-	15/11 / 22/18.5(op.)	22/18.5(op.)			
	R	11/7.5	-	15/11 / 22/18.5(op.)	22/18.5(op.)		-	-	15/11 / 22/18.5(op.)	22/18.5(op.)			
Tailstock													
Driving system	-	-		NC control servo-driven type					NC control servo-driven type				
Quill taper	-	-		MT-5(Built-in center)					MT-5(Built-in center)				
Range of thrust force	kN	-		2.5 ~ 6.5					2.5 ~ 6.5				
Tool spindle													
Tool spindle speed	min ⁻¹	12,000 (op. 20,000)		8,000 (op. 12,000)					8,000 (op. 12,000)				
Tool spindle motor	kW	11/7.5		22/15					22/15				
B-axis swiveling range	-	±95°		-120°, +105°					±120°				
Tool coupling type	-	CAPTO C4 (op. HSK-T40)		CAPTO C6 (op. HSK-A63)					CAPTO C6 (op. HSK-A63)				
ATC													
Number of tools	-	36 (op. 48, 72)		40 (op. 60, 80, 120)					40 (op. 60, 80, 120)				
Long-tool ATC storage capacity / Length(op.)	- / mm	-		-					3 / φ65×1450*7				
Lower turret													
Number of turrets	-	1		-					-				
Type of turret head / Number of indexing pos.	-	Dodecagonal drum turret / 24		-					-				
Milling spindle speed	min ⁻¹	6,000	6,000	6,000	8,000(op.)	-			-				
Milling motor	kW	7.1/2.2	7.1/2.2	6/1.5 (op.)	-			-					
General													
Machine Dimensions	Height	2,662		2,615					2,615				
	Width	4,350		4,529					5,440				
	Depth	2,795		2,670					2,670				
Machine weight (incl. control)	kg	14,000		17,000					19,000				

*1 It is only available for single turret machine. It is NOT available for gantry loader specifications.

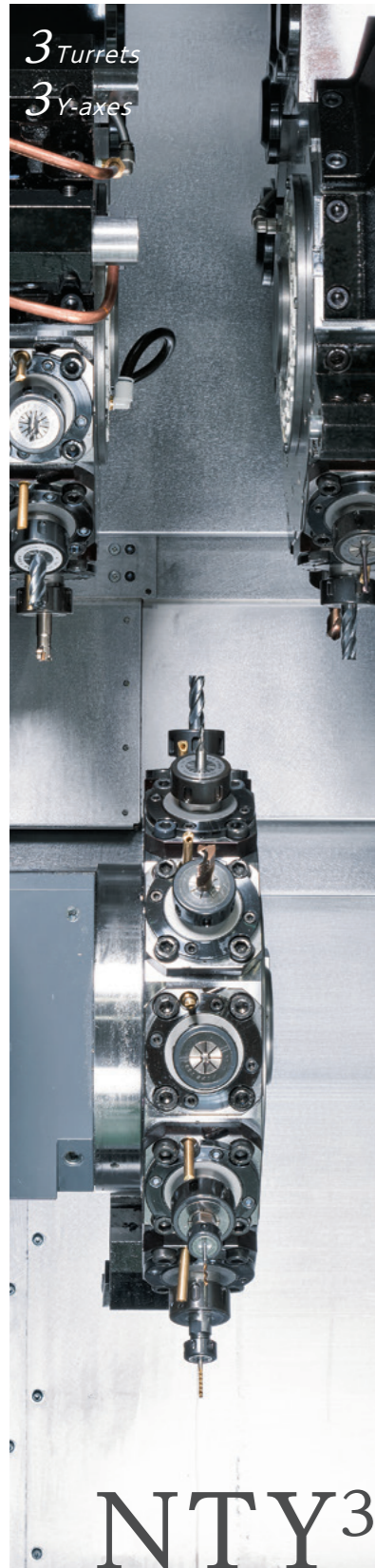
*2 There is limitation on maximum spindle speed with 15-inch chuck.

*3 Direct connecting pipe *4 Joint connection *5 R-spindle + Steady rest specification : max.1,850mm / min.835mm

*6 Tailstock + Steady rest specification : max.1,725mm / min.710mm *7 Not available when Unloading Hand Gripper(op.) is selected

Nakamura-Tome
NTY³ series

* The photos of the machines shown in the chart include some options.



NTY³-100V

		Unit	NTY ³ -100V		
			φ42	φ51(op.)	φ65(op.)
Capacity					
Max. turning diameter	12st	mm	200		
	15st		190		
Max. turning length		mm	588		
Distance between spindles [max. / min.]		mm	820 / 200		
Bar capacity	L	mm	φ42	φ51(op.)	φ65(op.)
	R				
Chuck size	L / R	inch	6" / 6"		
Slide travel					
Y1/Y2/Y3 axis slide travel	12st	mm	±42 / ±42 / ±32.5		
	15st		±31		
B2-axis slide travel		mm	620		
L/R spindle					
Spindle speed	L	min ⁻¹	6,000	6,000	5,000
	R				
Spindle motor	L	kW	11/7.5	11/7.5 (op. 15/11)	11/7.5 (op. 15/11)
	R				
Upper/Lower turret					
Number of turrets(Upper/Lower)			2 / 1		
Type of turret head / Number of indexing pos.	12st		Dodecagonal drum turret / 24		
	15st		15 stations turret / 15		
Milling					
Milling spindle speed	12st	min ⁻¹	6,000 (op. 10,000)		
	15st		6,000		
Milling motor		kW	7.1/2.2 (op. 7.5/2.2)		
Rotary system / Number of milling stations	12st		Individual rotation / 12		
	15st		Individual rotation / 15		
General					
Machine Dimensions	Height	mm	2,255.3		
	Width		3,864.2		
	Depth		2,245.7		
Machine weight (incl. control)		kg	10,000		



NTY³-150

		NTY ³ -150		NTY ³ -250			
		φ51	φ65(op.)	φ51	φ65	φ71(op.)	φ80(op.)
Max. turning diameter		225		225		180	
Max. turning length		685		Upper : 310.5 / Lower : 905.5			
Distance between spindles [max. / min.]		970 / 200		1,200 / 255			
Bar capacity	L	φ51	φ65(op.)	φ51	φ65 (op.)	φ71(op.)	φ80(op.)
	R						
Chuck size	L / R	6" / 6"		8" / 6"			
Slide travel							
Y1/Y2/Y3 axis slide travel	12st	±45 / ±45 / ±35		-61, +51 / -61, +51 / -51, +61			
	15st	-		-			
B2-axis slide travel		770		945			
Spindle speed	L	5,000	4,500	-	5,000 (op. 4,000)		3,500
	R						
Spindle motor	L	15/11	-	5,000	18.5/11 (op. 26/22)		-
	R						
Number of turrets(Upper/Lower)		2 / 1		2 / 1			
Type of turret head / Number of indexing pos.	12st	Dodecagonal drum turret / 24		Dodecagonal drum turret / 24			
	15st	-		-			
Milling							
Milling spindle speed	12st	6,000 (op. 8,000)		6,000			
	15st	-		-			
Milling motor		5.5/3.7		5.5/3.7			
Rotary system / Number of milling stations	12st	Individual rotation / 12		Individual rotation / 12			
	15st	-		-			
General							
Machine Dimensions	Height	2,200		2,395			
	Width	3,814		4,900			
	Depth	2,257		2,580			
Machine weight (incl. control)		10,500		14,425			

* The photos of the machines shown in the chart include some options.



WY-100V

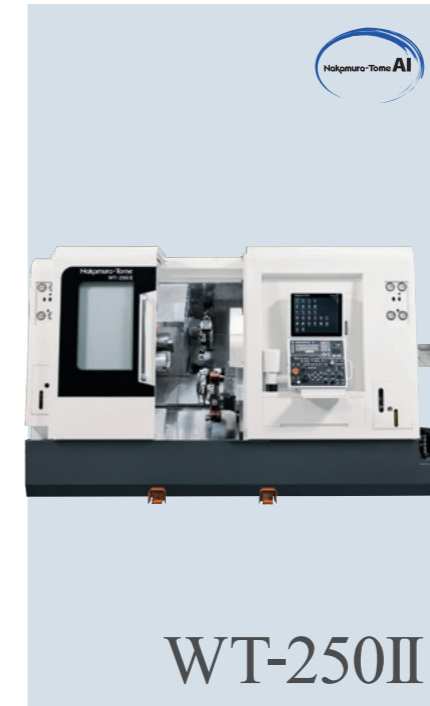
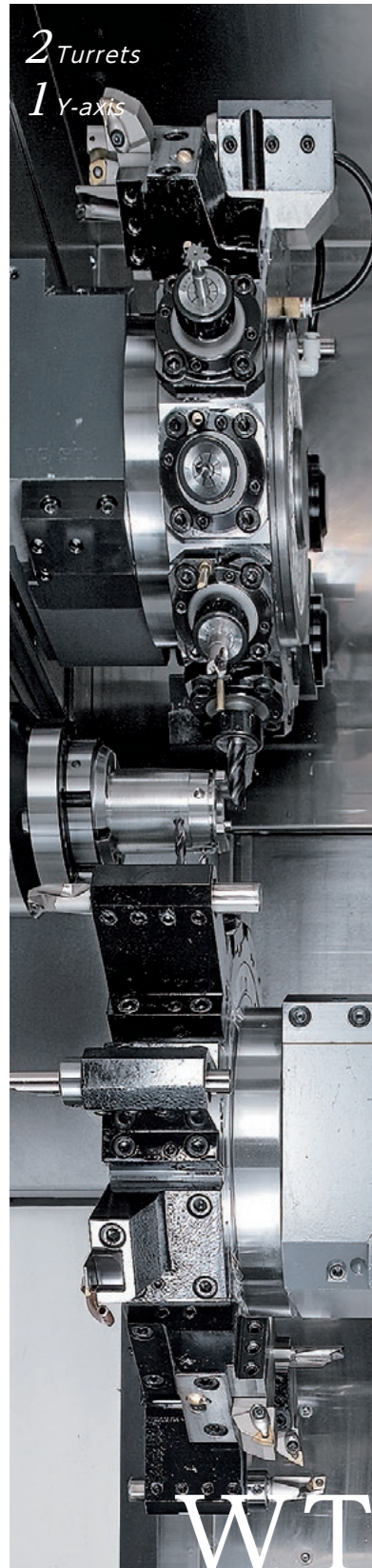
		Unit	WY-100V		
			φ42	φ51(op.)	φ65(op.)
Capacity					
Max. turning diameter	12st	mm	200		
	15st	mm	190		
Max. turning length		mm	588		
Distance between spindles [max. / min.]		mm	820 / 200		
Bar capacity	L	mm	φ42	φ51(op.)	φ65(op.)
	R	mm			
Chuck size	L / R	inch	6" / 6"		
Slide travel					
Y1/Y2 axis slide travel	12st	mm	±42 / ±32.5		
	15st	mm	±31		
B2-axis slide travel		mm	620		
L/R spindle					
Spindle speed	L	min ⁻¹	6,000	6,000	5,000
	R	min ⁻¹			
Spindle motor	L	kW	11/7.5	11/7.5 (op. 15/11)	11/7.5 (op. 15/11)
	R	kW			
Upper/Lower turret					
Number of turrets(Upper/Lower)			1 / 1		
Type of turret head / Number of indexing pos.	12st / 15st		Dodecagonal drum turret / 24 / 15 stations turret / 15		
Milling					
Milling spindle speed	12st	min ⁻¹	6,000 (op. 10,000)		
	15st	min ⁻¹	6,000		
Milling motor		kW	7.1/2.2 (op. 7.5/2.2)		
Rotary system / Number of milling stations	12st		Individual rotation / 12		
	15st		Individual rotation / 15		
General					
Machine Dimensions	Height	mm	2,255.3		
	Width	mm	3,849.1		
	Depth	mm	2,245.7		
Machine weight (incl. control)		kg	9,500		



WY-150V

			WY-150V			WY-250L			
			φ51	φ65(op.)	φ80(op.)	φ51	φ65(R op.)	φ71(op.)	φ80(op.)
Max. turning diameter			225			225			
Max. turning length			685			910			
Distance between spindles [max. / min.]			970 / 200			1,200 / 255			
Bar capacity	L	mm	φ51	φ65(op.)	φ80(op.)	φ51	φ65	φ71 (op.)	φ80 (op.)
	R	mm					φ65 (op.)		
Chuck size	L / R	inch	6" / 8"		8"	8" / 6"			
Y1/Y2 axis slide travel			±45 / ±35			±50 / -50,+20			
B2-axis slide travel			770			945			
Spindle speed	L	min ⁻¹	6,000	5,000	4,000		4,500	4,000	3,500
	R	min ⁻¹				5,000	4,500		
Spindle motor	L	kW	15/11	18.5/11	28/15		18.5/11 (op. 26/22)		
	R	kW				15/11 (op. 18.5/15)			
Number of turrets(Upper/Lower)			1 / 1			1 / 1			
Type of turret head / Number of indexing pos.			Dodecagonal drum turret / 24			Dodecagonal drum turret / 24			
Milling spindle speed			10,000			6,000			
Milling motor			7.5/3.7			5.5/3.7 (op. 7.5/3.7)			
Rotary system / Number of milling stations			Individual rotation / 12			Individual rotation / 12			
Machine Dimensions			2,280			2,395			
Width			4,245.2			4,620			
Depth			2,389.7			2,593			
Machine weight (incl. control)			11,000			13,000			

* The photos of the machines shown in the chart include some options.



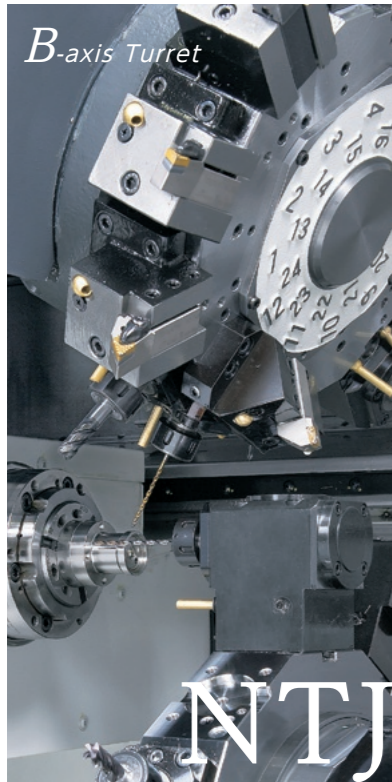
		Unit	NT-Flex		WT-100
			φ32	φ38(op.)	φ42
Capacity					
Max. turning diameter	Upper	mm	150		190
	Lower	mm			
Max. turning length		mm	250		503
Distance between spindles [max. / min.]		mm	655 / 200		735 / 210
Bar capacity	L	mm	φ32		φ42
	R	mm	φ38 (op.)		
Chuck size		inch	5"		6"
Slide travel					
Y-axis slide travel (Upper)		mm	±25		±31
B2-axis slide travel		mm	455		525
L/R spindle					
Spindle speed	L	min ⁻¹	8,000		6,000
	R	min ⁻¹			
Spindle motor	L	kW	7.5/5.5		11/7.5
	R	kW			
Upper/Lower turret					
Number of turrets(Upper/Lower)			1 / 1		1 / 1
Type of turret head / Number of indexing pos.			Dodecagonal drum turret / 24		Dodecagonal drum turret / 24
Milling					
Milling spindle speed		min ⁻¹	8,000 (op. 10,000)		6,000
Milling motor		kW	7.1/2.8 (op. 7.5/2.2)		7.1/2.2
Rotary system / Number of milling stations			Individual rotation / 12		Individual rotation / 12
General					
Machine Dimensions	Height	mm	2,213		1,940
	Width	mm	3,500		2,630
	Depth	mm	1,380		1,923
Machine weight (incl. control)		kg	6,500		5,700

*8 Tooling dimensions are limited when installing an 8-inch chuck.

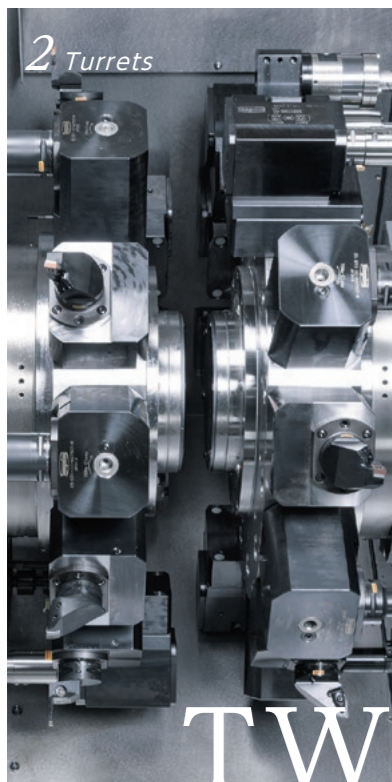
		WT-150II		WT-250II		WT-300			
		φ51	φ65(op.)	φ51	φ65	φ65	φ71(op.)	φ80(op.)	φ102(op.)
Max. turning diameter	Upper	190		250		270		199	199
	Lower							270	270 (L: φ102 / R: φ65) 229 (L: φ102 / R: φ102)
Max. turning length		515		555		780			
Distance between spindles [max. / min.]		800 / 200		885 / 265 (L: φ65 / R: φ51) 870 / 250 (L: φ65 / R: φ65)		1,100 / 250			
Bar capacity	L	φ51	φ65 (op.)	—	φ65	φ65	φ71 (op.)	φ80 (op.)	φ102 (op.)
	R	—	—	φ51	φ65 (op.)	—	—	—	—
Chuck size		6", 8" *8		8", 6"		8"		12"	
Slide travel									
Y-axis slide travel (Upper)		±35 (op.)		±41 (op.)		±60 (op.)		±40 (op.)	
B2-axis slide travel		600		620		850			
L/R spindle									
Spindle speed	L	5,000	4,500	—	4,500	4,500	4,000	3,500	2,500
	R	—	—	5,000	4,500(op.)	—	—	—	—
Spindle motor	L	15/11	—	18.5/15 (op. 35/26/22, 15/11 Wide range)		15/11 (op. 18.5/15, 22/18.5)			
	R	11/7.5	—	11/7.5 (op. 15/11, 18.5/15)		15/11 (op. 18.5/15)			
Upper/Lower turret									
Number of turrets(Upper/Lower)		1 / 1		1 / 1		1 / 1			
Type of turret head / Number of indexing pos.		Dodecagonal drum turret / 24		Dodecagonal drum turret / 24		Dodecagonal drum turret / 24			
Milling									
Milling spindle speed		6,000(op.)		6,000 (L:65 / R:51)(op.) 3,600 (L:65 / R:65)(op.)		3,600(op.)			
Milling motor		5.5/3.7(op.)		5.5/3.7(op.)		5.5/3.7(op.)			
Rotary system / Number of milling stations		Individual rotation / 12(op.)		Individual rotation / 12(op.)		Individual rotation / 12(op.)			
General									
Machine Dimensions	Height	1,858.5		2,225		2,276		2,276	
	Width	3,675		4,059		4,230	4,275		4,345
	Depth	2,258.2		2,314		2,487		2,487	
Machine weight (incl. control)		9,000		8,700		14,000		14,000	

NTJ series / TW series

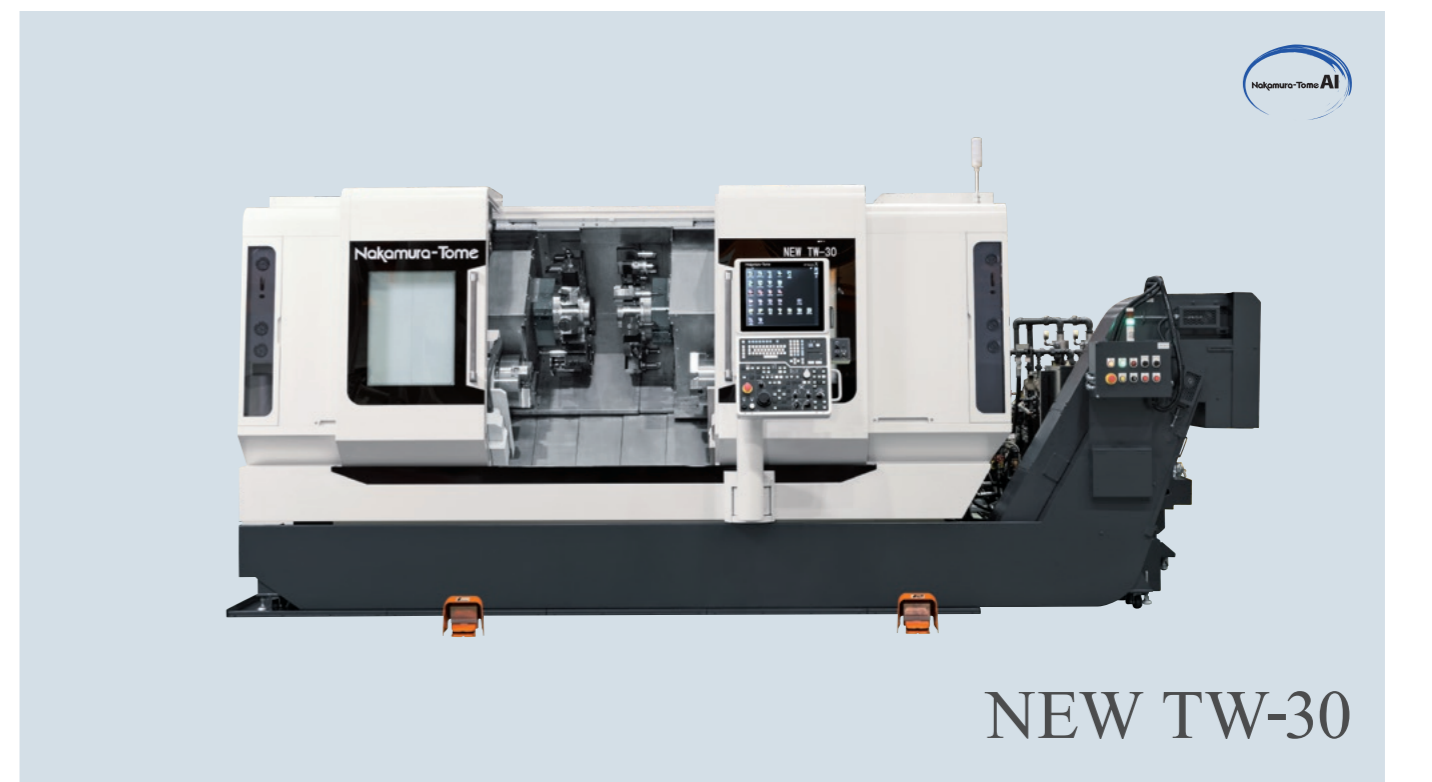
* The photos of the machines shown in the chart include some options.



	Unit	NTJ-100		Super NTJ	
		φ51	φ65(op.)	φ65	φ51
Capacity					
Max. turning diameter	mm	175		190	
Max. turning length	mm	678		620	
Distance between spindles [max. / min.]	mm	910 / 200		970 / 210	
Bar capacity	L	φ51		φ65	φ51(op.)
	R	φ65(op.)		—	φ51
Chuck size	inch	6"		6"	
Slide travel					
Y1/Y2 axis slide travel	mm	±40 / ±32.5		±45 / —	
B2-axis slide travel	mm	680		760	
L/R spindle					
Spindle speed	L	min ⁻¹	5,000	4,500	4,500
	R				5,000
Spindle motor	L	kW	11/7.5		15/11
	R		11/7.5		11/7.5
Upper/Lower turret					
Number of turrets(Upper/Lower)	—	1 / 1		1 / 1	
Type of turret head / Number of indexing pos.	—	Dodecagonal drum turret / 24		Dodecagonal drum turret / 24	
Number of tool stations	Standard	Turning/Milling tool 24/0 - 0/12		Turning/Milling tool 24/0 - 0/12	
	Extra tools specifications(op.)	Turning/Milling tool 24/0 - 6/12		—	
Swiveling range(Upper)	—	±91°		±91°	
Milling spindle speed	min ⁻¹	6,000		6,000	
Milling motor	kW	7.1/2.2		5.5/3.7	
General					
Machine Dimensions	Height	mm	2,565		2,170
	Width		3,799		3,660
	Depth		2,110		2,320
Machine weight (incl. control)	kg	10,000		12,500	



	Unit	NEW TW-30	
		φ71	
Capacity			
Max. turning diameter	mm	335 (op. large swing spec. 400)	
Max. turning length	mm	300	
Distance between spindles [max. / min.]	mm	1,300 / 320	
Bar capacity	mm	φ71	
Chuck size	mm	10"	
Slide travel			
RZ-axis slide travel	mm	980	
L/R spindle			
Spindle speed	min ⁻¹	3,500	
Spindle motor	L	kW	22/18.5
	R		22/18.5
Upper turret			
Number of turrets	—	2	
Type of turret head / Number of indexing pos.	—	Dodecagonal drum turret / 12	
Milling (op.)			
Milling spindle speed	min ⁻¹	6,000	
Milling motor	kW	7.5/3.7	
General			
Machine Dimensions	Height	mm	2,250
	Width		4,370
	Depth		2,125
Machine weight (incl. control)	kg	14,500	





		SC-100X ²	SC-100	SC-200II		SC-200III *11		
Unit		φ51	φ51	φ65	φ71(op.)	φ65	φ71(op.)	
Capacity								
Max. turning diameter	mm	195	230	390 / 340(op. 16st) *9		390 / 340(op. 16st)		
Max. turning length	mm	400	400 / 300(op. Tailstock)	317.8		522.8		
Distance between centers	mm	-	430	510		715		
Bar capacity	mm	φ51	φ51	φ65	φ71	φ65	φ71(op.)	
Chuck size	mm	6"	6"	8"	10"	8"	10"	
Slide travel								
Y-axis slide travel	mm	±40	±40	±50 *10		±50		
Spindle								
Spindle speed	min ⁻¹	6,000	5,000	4,500		4,500		
Spindle motor	kW	11/7.5	11/7.5	15/11(op. 18.5/15)		15/11 (op. 18.5/15)		
Turret								
Type of turret head / Number of indexing pos.	12st	Upper: Dodecagonal / 24 Lower: Flexible special design turret / 9		Dodecagonal / 24		Dodecagonal drum turret / 24		
	15st	-		-		-		
	16st	-		Hexadecagon / 16 *9		Hexadecagon / 16		
Milling								
Milling spindle speed	min ⁻¹	6,000	6,000	6,000		6,000		
Milling motor(kW)	12st	7.1/2.2	7.1/2.2	5.5/3.7		5.5/3.7		
	15st	-	-	-		-		
	16st	-	-	5.5/3.7		5.5/3.7		
Number of milling stations	12st	12	12	12		12		
	15st	-	-	-		-		
	16st	-	-	16 *9		16		
Tailstock (op.)								
Driving System	-	-	NC control servo-driven type	NC control servo-driven type		NC control servo-driven type		
Travel	mm	-	400	305		470		
Quill taper	-	-	MT-3 (Rotating center)	MT-4 (Rotating center), MT-3 (Built-in center)		MT-4 (Rotating center), MT-3 (Built-in center)		
Sub spindle (op.)								
		standard						*12
Chuck size / Bar capacity	mm	5"(6") / φ42		-		6", 8" / φ51		
Spindle speed / spindle motor	min ⁻¹ / kW	6,000 / 7.5/5.5		-		5,000 / 15/11		
Distance between spindles [max. / min.]	mm	600 / 200		-		800 / 260		
B-axis slide travel	mm	-		-		540		
General								
Machine Dimensions	Height	1,799		2,125		2,125		
	Depth	3,072		3,195		3,787.5		
	Width	1,974		1,825		2,130		
Machine weight (incl. control)	kg	6,500		7,500		8,500		

*9 16st cannot be selected for specifications without milling.

*10 Y-axis cannot be selected for specifications without milling.
With or without Y-axis can be selected for specifications with milling.

		AS-200		AS-200L		SC-300II		SC-300III		SC-450L	
Unit		φ65	φ71(op.)	φ65	φ71(op.)	φ71	φ89(op.)	φ71	φ89(op.)	φ81	φ89(op.)
Capacity											
Max. turning diameter	mm	290 / 280(op. 15st)		290 / 280(op. 15st)		360		360		480	
Max. turning length	mm	300		570		600 (Tailstock), 635 (R Spindle)		1,100 (Tailstock), 1,135 (R Spindle)		1,520	
Distance between centers	mm	427		760		713.5		1,213.5		1,752	
Bar capacity	mm	φ65	φ71	φ65	φ71	φ71	φ89	φ71	φ89	φ81	φ89(op.)
Chuck size	mm	8"		8"		10", 12"		10", 12"		12", 15"	
Slide travel											
Y-axis slide travel	mm	±41		±41		±60		±60		±75(op.)	
Spindle											
Spindle speed	min ⁻¹	4,500 / 3,000(op.) / 4,500(op. torque-up motor)		4,500 / 3,000(op.) / 4,500(op. torque-up motor)		3,500		3,500		2,500	
Spindle motor	kW	15/11		15/11		22/18.5		22/18.5		30/22	
Turret											
Type of turret head / Number of indexing pos.	12st	Dodecagonal / 24		Dodecagonal / 24		Dodecagonal / 24		Dodecagonal / 24		Dodecagonal drum turret / 12	
	15st	15 stations turret / 15		15 stations turret / 15		-		-		-	
	16st	-		-		Hexadecagon / 16		Hexadecagon / 16		-	
Milling											
Milling spindle speed	min ⁻¹	6,000		6,000		6,000		6,000		3,600(op.)	
Milling motor(kW)	12st	5.5/3.7		5.5/3.7		7.5/3.7		7.5/3.7		5.5/3.7(op.)	
	15st	-		-		-		-		-	
	16st	-		-		5.5/3.7		5.5/3.7		-	
Number of milling stations	12st	12		12		12		12		12(op.)	
	15st	-		-		-		-		-	
	16st	-		-		16		16		-	
Tailstock (op.)											
Driving System	-	Manual		Manual		NC control servo-driven type		Z-axis slide (knock type) / NC control servo-driven type		NC control servo-driven type	
Travel	mm	200		435		500		900 / 1,000		1,490	
Quill taper	-	MT-4(Rotating center)		MT-4(Rotating center)		MT-5 (Rotating center), MT-4 (Built-in center)		MT-5 (Rotating center), MT-4 (Built-in center)		MT-5 (Rotating center, Built-in center)	
Sub spindle (op.)											
		-		6" / φ42		6", 8" / φ51		6", 8" / φ51		10" / φ71	
Spindle speed / spindle motor	min ⁻¹ / kW	-		6000 / 7.5/5.5		5000 / 15/11		5000 / 15/11		3,500 / 15/11	
Distance between spindles [max. / min.]	mm	-		800 / 220		910 / 310		1,310 / 310		1,694 / 485.5	
B-axis slide travel	mm	-		580		600		1,000		1,208.5	
General											
Machine Dimensions	Height	1,852		1,935		2,300		2,300		2,184.9 / 2,531.3 (op. Y-axis)	
	Depth	1,655		2,716		3,995		4,902		5,050	
	Width	1,665		1,805		2,130		2,130		2,164.8	
Machine weight (incl. control)	kg	4,500		5,500		9,000		11,000		9,000 / 10,000 (op. Y-axis)	

*11 NC tailstock (MT-4/Rotating center) specification is standard.

*12 When the sub spindle specification is selected, the dodecagonal turret is not selectable.

Gantry Loader①

GR-210 High-Speed 3 axes



SC-300II + GR-210 High-Speed

GR-210 NEW 3 axes



WT-300 + GR-210 NEW + WS-445W

GR-203 High-Speed 3 axes

NTY³-150 + GR-203 High-Speed

GR-203II 3 axes



WT-150II + GR-203II + WS-231

※1	Unit	GR-210 High-Speed		GR-210 NEW	
		10kg	20kg (op.)	10kg	20kg (op.)
Speed					
Loading/Unloading time ※2	sec	6.0/6.0	10.5/10.5	10.5/10.5	
Hand					
Workpiece diameter	Flange	φ20~φ220		φ20~φ220	
	Shaft	φ20~φ100		φ20~φ100	
Workpiece length	Flange	20~100		20~100	
	Shaft	50~200		50~200	
Hand turning	Flange	0.75sec/180°	3.0sec/180°	1.8sec/180°	3.0sec/180°
	Shaft	1.8sec/180°		1.8sec/180°	
Hand back turning		-			
Workpiece weight	Flange	10×2	20×1	10×2	20×1
	Shaft	-		-	
Jaw stroke	Flange	φ40	φ32	φ40	φ32
	Shaft	φ30		φ30	
Work Stocker List					
Multi-layer work stocker	WS-221	-	-	-	-
	WS-231	-	-	-	-
	WS-442W	○	○	○	○
	WS-445W	○	○	○	○
Single-layer work stocker	WS-121	-	-	-	-
	WS-122	-	-	-	-
	WS-124	-	-	-	-
	WS-132	-	-	-	-
HAKO-BEI Rail extension is required when B type is selected.		-	-	-	-

※1	Unit	GR-203 High-Speed		GR-203II	
		3kg	5kg (op.)	3kg	5kg (op.)
Speed					
Loading/Unloading time ※2	sec	4.7/4.6	6.7/6.7	7.8/7.8	8.1/8.1
Hand					
Workpiece diameter	Flange	φ20~φ130		φ20~φ130	
	Shaft	φ15~φ30		φ15~φ30	
Workpiece length	Flange	20~110		20~110	
	Shaft	35~200		35~200	
Hand turning	Flange	0.9~1.1sec/90°		1.4~1.6sec/90°	
	Shaft	1.2sec/180°		1.2sec/180°	
Hand back turning		-			
Workpiece weight	Flange	3.0×2	5.0×2	3.0×2	5.0×2
	Shaft	1.0×2		1.0×2	
Jaw stroke	Flange	φ16		φ16	
	Shaft	φ25		φ25	
Work Stocker List					
Multi-layer work stocker	WS-221	○	○	○	○
	WS-231	○	○	○	○
	WS-442W	-	-	-	-
	WS-445W	-	-	-	-
Single-layer work stocker	WS-121	○	○	○	○
	WS-122	○	○	○	○
	WS-124	○	○	○	○
	WS-132	○	○	○	○
HAKO-BEI Rail extension is required when B type is selected.		○	○	○	○

Gantry Loader②

GR-201 High-Speed 2 axes



SC-100 + GR-201 High-Speed

GR-201 Tilt



WT-100 + GR-201 + WS-221

※1	Unit	GR-201 High-Speed		GR-201	
		1kg	3kg (op.)	1kg	3kg (op.)
Speed					
Loading/Unloading time ※2	sec	3.2/4.0	6.0/6.5	6.0/6.0	8.0/8.0
Hand					
Workpiece diameter	Flange	φ20~φ60		φ20~φ80	
	Shaft	φ15~φ30			
Workpiece length	Flange	20~50	20~75	20~50	20~75
	Shaft	35~200			
Hand turning	Flange	1.8sec/270°		1sec/90°	
	Shaft	* Varies depending on specifications.			
Hand back turning		-			
Workpiece weight	Flange	1.0×2	3.0×2	1.0×2	3.0×2
	Shaft	1.0×2			
Jaw stroke	Flange	φ12		φ15	
	Shaft	φ25			

Work Stocker List					
Multi-layer work stocker	WS-221	○	○	○	○
	WS-231	○	○	-	-
	WS-442W	-	-	-	-
	WS-445W	-	-	-	-
Single-layer work stocker	WS-121	-	-	○	○
	WS-122	-	-	○	○
	WS-124	-	-	○	○
	WS-132	-	-	-	-
HAKO-BEI Rail extension is required when B type is selected.		○	○	○	○

Gantry Loader Installation table	GR-210 High-Speed	GR-203 High-Speed	GR-201 High-Speed	GR-210 NEW	GR-203 II	GR-203	GR-201
SC-100			○				
SC-200II		○					
SC-200III		○					
SC-300II	○						
TW-8						○	
WT-100							○
WT-150II		○					
WT-250II				○	○		
WT-300	○						
WY-100V		○					
WY-150V		○					
WY-250L				○	○		
NTY ³ -100V		○					
NTY ³ -150		○					
NTY ³ -250				○	○		
JX-250	○						



Gantry loader loading/unloading type

Standard, Left side, Right side, Left extension, Right extension, Passing.
* However, there are restrictions depending on the machine model and specifications.

<p>Standard / Left side</p> <p>NTY³-100 + GR-203 High-Speed</p>	<p>Right side / Extension</p> <p>TW-8 + GR-203</p> <p>* Right side, chip conveyor is rear discharge type.</p>	<p>Passing</p> <p>WT-100 + GR-201</p> <p>* Passing, chip conveyor is rear discharge type.</p>
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18 ※ 1 Specifications may differ for each model to be installed.
※ 2 Loading/unloading time are approximate. It varies for each model to be installed.

Compact Loader



WY-150
+Compact Loader+HAKO-BEI

* The combination of transfer devices is limited to IN conveyor/OUT conveyor, IN conveyor/OUT chute, and transfer device (material/finished part).
* Loading/unloading times are for reference only and may vary depending on actual machining conditions.

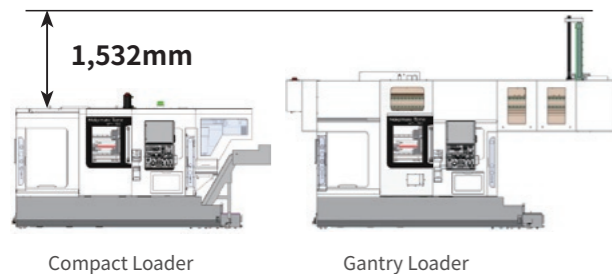
	Unit	MX-100	WY-100V / NTY ³ -100V				WY-100II / NTY ³ -100		WY-150 / NTY ³ -150	
		Compact Loader servo	Standard		Travel axis extended by 150mm (op.)		Standard	Travel axis extended by 150mm (op.)	Standard	Travel axis extended by 150mm (op.)
			3kg	5kg (op.)	3kg	5kg (op.)				
Workpiece Size	Diameter	mm	φ20~φ130		φ32~φ110		φ32~φ100		φ32~φ100	
	Length	mm	20~110		20~100		20~100		20~100	
	Weight	kg	3.0x2		5.0x2		3.0x2		5.0x2	
Z-axis Travel	Drive	-	Servomotor				Servomotor		Servomotor	
	Stroke	mm	2,580		1,910		2,060		1,955	
Arm Advance/Retract	Drive	-	Servomotor				Air cylinder		Air cylinder	
	Stroke	deg.	52				50		50	
Hand Up/Down	Drive	-	Servomotor				Air cylinder		Air cylinder	
	Stroke	mm	420		185		150		150	
Hand Swing	Drive	-	Air cylinder				Air cylinder		Air cylinder	
	Stroke	-	90°				90°		90°	
	Speed	sec./90°	2		1.7		1.7		1.7	
Hand	Drive	-	Air cylinder				Air cylinder		Air cylinder	
	Stroke	mm	32 (±16)		12 (±6.0)		15 (±7.5)		15 (±7.5)	
Loading/Unloading Time	sec	7.6/7.5		4.8/4.2		7.6/6.4		4.8/4.2		
Transport Device	Loading/Unloading	-	Conveyor/Conveyor Transfer		Conveyor/Conveyor/Conveyor/Chute Transfer		Conveyor/Conveyor/Conveyor/Chute Transfer		Conveyor/Conveyor/Conveyor/Chute Transfer	

Space-saving, Multifunctional Automated System

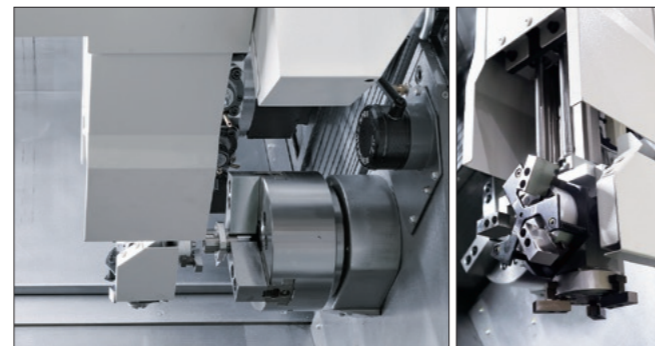
"Compact Loader" developed with an emphasis on "Space-saving" is a transfer device that performs loading/unloading inside the machine.

The machine height is the same as that of standard machines, which has the advantage of being less subject to factory height restrictions.

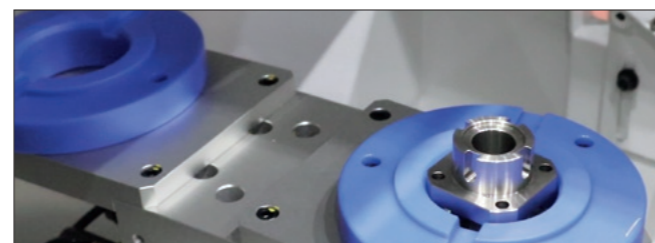
Compact Loader Height Comparison(WY-150)



"Compact Loader" Internal conveyor system



Transport Device
Transfer/Conveyor/Chute type is selectable.



Shaft Loader/Unloader

Loading and Unloading of shaft work is fully automated by installing a set of ZEN-BEI and HAI-BEI. Our original automation equipment contributes to the improvement of customers' work efficiency.

Shaft Loader ZEN-BEI

	Unit	SL08W-800	SL10W-1000	SL20W-1000
Push rod stroke	mm	1,730	1,730	1,790
Workpiece diameter(φ)×Length	mm	φ10~φ34×100~800	φ10~φ42×100~1,000	φ10~φ51×100~1,000
Push rod bar, A size workpiece length	mm	100~500	100~400	100~400
Push rod bar, B size workpiece length	mm	500~800	400~700	400~700
Push rod bar, C size workpiece length	mm	-	700~1,000	700~1,000
Number of workpiece stock capacity	-	23	23	23
Loading time	sec	7	7	7
Machine Dimensions (L×W×H)	mm	2,135×879×1,151	2,135×879×1,176	2,235×879×1,269



Shaft Unloader HAI-BEI

	Unit	SU08W-800	SU10W-1000	SU20W-1000
Pull out bar stroke	mm	1,830	1,830	1,950
Workpiece diameter(φ)×Length	mm	φ12~φ34×100~800	φ15~φ42×100~1,000	φ15~φ51×100~1,000
Pull out bar, A size workpiece length	mm	100~500	100~400	100~400
Pull out bar, B size workpiece length	mm	500~800	400~700	400~700
Pull out bar, C size workpiece length	mm	-	700~1,000	700~1,000
Number of workpiece stock capacity	-	20	20	20
Max. workpiece weight	kg	8	8	8
Unloading time	sec	7	7	7
Machine Dimensions (L×W×H)	mm	2,529×680×1,178	2,529×680×1,203	2,649×680×1,296



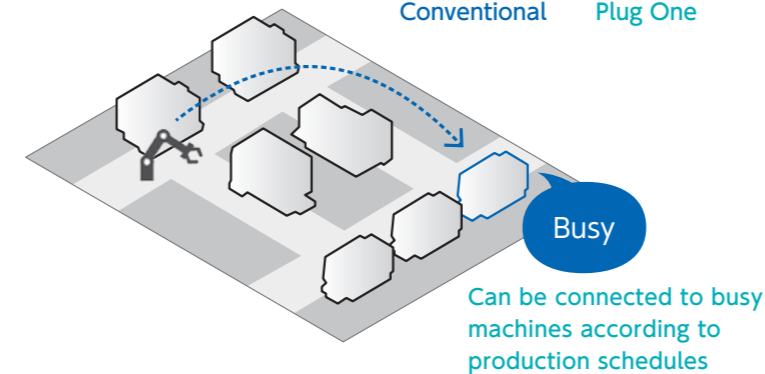
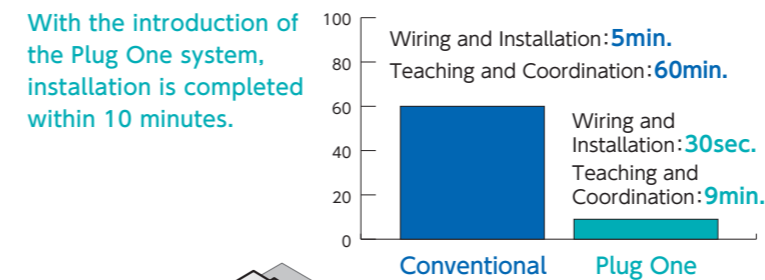
Plug One

One-touch connection system for one-touch connection and disconnection of machines and robot, robot and work stocker.

This is a new style of automation proposed by Nakamura-Tome to solve these problems:

"The installed automation system is not operating well due to fluctuating demand."

"Robotic systems require safety fences, and the systems are large and take up a lot of space."



One-touch

Equipped with a connection unit that consolidates electrical and air wiring.

No safety fence

Cooperative robots are used, so safety fences are not required.

Flexible

Flexible change the layout of the machine to respond to demand fluctuations.

Work Stocker

Multi-layer work stocker



WT-150+GR-203+WS-221
* A conveyor shown in the picture is optional.

[GR-203 High-Speed] [GR-203II]
[GR-201 High-Speed] [GR-201]

WS-221 *1	Type	Multi-layer Pallet
	Workpiece diameter	φ15~φ100mm
	Number of pallets	10
	Stack height	300mm
Max. loading weight		18kg/Pallet
WS-231 *1	Type	Multi-layer Pallet
	Workpiece diameter	φ20~φ150mm
	Number of pallets	10
	Stack height	300mm
Max. loading weight		32kg/Pallet

[GR-210 High-Speed] [GR-210NEW]

WS-442W *2	Type	Multi-layer Pallet
	Workpiece diameter	φ20~φ220mm
	Number of pallets	20
	Stack height	450mm
Max. loading weight		40kg/Pallet
WS-445W *2	Type	Multi-layer Pallet
	Workpiece diameter	φ20~φ220mm
	Number of pallets	14
	Stack height	450mm
Max. loading weight		40kg/Pallet

Single-layer work stocker



GR-203+WS-122

[GR-203 High-Speed] [GR-203II]
[GR-201]

WS-121	Type	Single-layer Pallet
	Workpiece diameter	φ20~φ80mm
	Number of pallets	30
Max. loading weight		2kg/Pallet
WS-122	Type	Single-layer Pallet
	Workpiece diameter	φ20~φ80mm
	Number of pallets	60
	Max. loading weight	
WS-124	Type	Single-layer Pallet
	Workpiece diameter	φ20~φ80mm
	Number of pallets	120
	Max. loading weight	

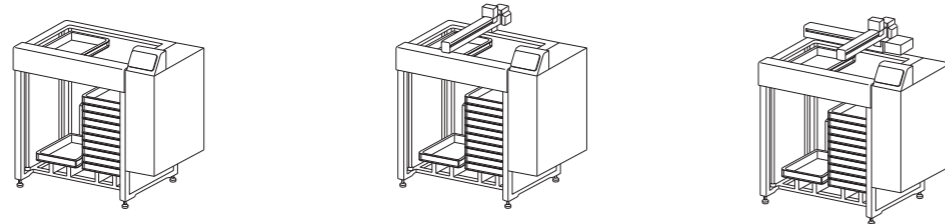
[GR-203 High-Speed] [GR-203II]

WS-132	Type	Single-layer Pallet
	Workpiece diameter	φ20~φ150mm
	Number of pallets	20
	Max. loading weight	

*1 GR-201 is only available with WS-221.
*2 There are 2 loading stations to shorten outboard service time.

If jigs are required, a meeting and a separate estimate will be required.

Work Stocker "HAKO-BEI"

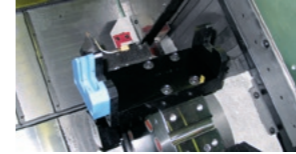


		Unit	B2 Type	C2 Type	HAKO-BEI Link	D Type	
General	Machine dimensions	mm	1,385×1,020×1,342	1,385×1,215.5×1,630	1,466×1,750×1,523	1,673×1,152×1,675	
	Tray exchange method	—	Pass-through type				
	Loading capacity on tray	kg	150	150	200	150	
	Total weight	kg	200	215	215	100	
Tray	Workpiece loading height	mm	960 from the floor level				
	Tray external dimensions	9 tier	W600×D440×H79				
		4 tier	W600×D440×H150				
	Tray limit weight	kg	15 (Heavy duty specification: 15-20)		20	15 (Heavy duty specification: 15-20)	
Drive Axis	Shuttle (Built-in)	Drive	AC servomotor	AC servomotor	AC servomotor	Special feed control	
		Stroke	500				
	Tray up/down drive	Drive	Chain drive (reversible motor)				
		Stroke	769				
	X-axis	Robot	—	1-axis (1-axis servo)	2-axis (2-axis servo)	2-axis (HAKO-ROBO)	
		Drive	—	—	—	AC servomotor	
		Stroke	mm	—	—	—	650
		Y-axis	Drive	—	AC servomotor	AC servomotor	AC servomotor
	Stroke		mm	850	1,300	500	
	Z-axis	Drive	—	Air cylinder	AC servomotor	Air cylinder	
		Stroke	mm	175	200	150	
		Carrying load	kg	0.3	1	0.3	
Loading/unloading cycle time		s	—	8~20	8~20	8~20	
Tray exchange time		s	30				

Please select from the following specifications for bar feeders.

This is required when bar feeder is equipped.

Parts Catcher	Shaft Unloader
Gantry Loader	Work Rest



A Parts catcher is a device to unload finished parts into a bucket and brings them out of the machine. Parts catcher specifications such as Maximum part diameter × Length × Weight vary from one model to another. (*1) If anti-scratch measures are required for finished parts for quality, select Parts catcher type G or Turret Servo Gripper type that grasps the workpiece by hand or a Gantry Loader+HAKO-BEI instead of the Parts catcher type A, drop type. (*2)

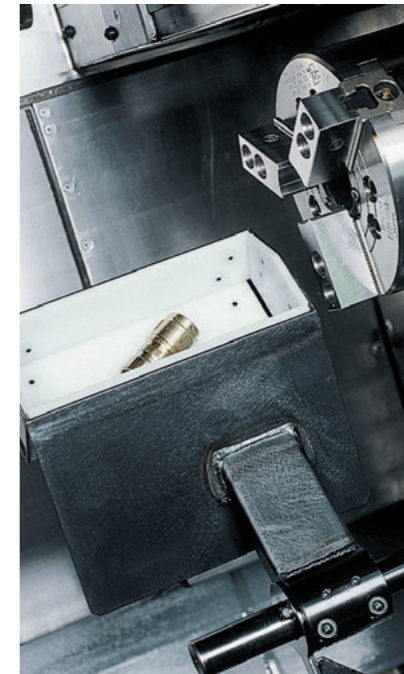
*1 Custom orders outside the standard specifications may also be available. Please ask our distributors for details.

*2 A workpiece discharge confirmation device is required for drop type unloaders.

Workpiece ejecting device
Parts Catcher

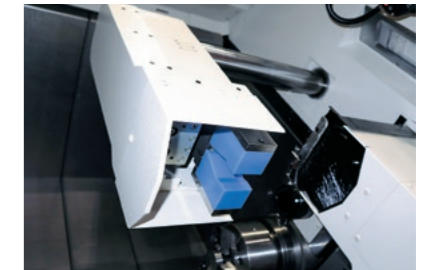
Parts catcher type A (Bucket type)

When a larger spindle's bar capacity is selected, a parts catcher with larger specifications is to be selected accordingly. (op.)



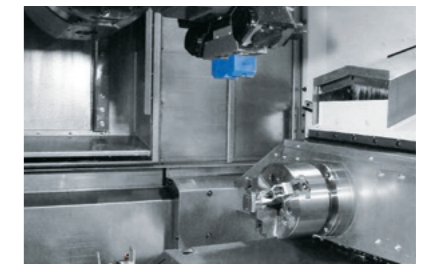
Part catcher type G (Gripper type)

It unloads the finished parts from R-side chuck. It is a one-gripper type parts catcher. The finished parts are pulled out by moving the R-spindle.



Turret Servo Gripper type

The milling motor can be used as a drive source to control the gripping force through torque control.

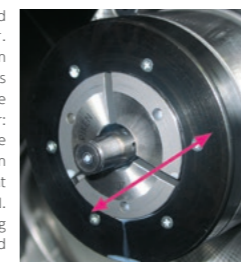


This is required when Parts catcher A or B is equipped.

Parts ejector and Parts eject checker

Pneumatic parts ejector (Recommended)

The finished parts are ejected with a pneumatic cylinder. It includes parts ejection confirmation. Two limit switches are equipped on both stroke ends of the pneumatic cylinder: one on the front end, and one on the back end. Part ejection is confirmed when the switch at the forward end is turned ON. An ejecting head corresponding to the workpiece diameter and shape is necessary. (Engineering arrangement for each part is necessary).



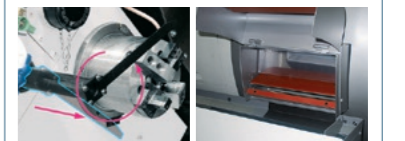
Air-blow through the right hand side spindle

Parts ejector spring type

The finished parts are ejected by spring force. An ejecting head corresponding to the workpiece diameter and shape is necessary. (Engineering arrangement for each part is necessary) Ejecting heads with air blow holes are also available. In this case, air blow through the spindle (op.) is necessary.

Parts eject checker (necessary)

It prevents collision by mistake during workpiece transfer. We can offer two kinds of parts confirmation:
1. Check if there is a workpiece in the L-side chuck.
2. Check if the finished part was ejected from the R-side chuck



1. Detect no workpiece 2. Workpiece eject detection

Parts eject checker is necessary when parts eject conveyor is equipped.

Parts outlet Door pocket shape

Stocker type

The finished parts are stocked into a door-mounted box.



Outlet chute type (Recommended)

The finished parts are unloaded through the door onto a conveyor or a bucket. To prevent scratching the finished parts during unloading, a conveyor is recommended. (op.) To prevent scratching the finished parts during unloading, additional plastic plates on the chute can be specified.



Advanced Production System NT Smart X

Easy, Fast and Accurate
for Everyone

19 inch color LCD touch panel

Voice Guidance

QWERTY keyboard

USB port
×2

Touch pad



■ Powered by AI as standard equipment

- NT Thermo Navigator AI
- 3D Smart Pro AI

NT Thermo Navigator AI

Thermal Growth
Compensation using AI.

- ① Time
- ② Measured Dimensions
- ③ Retrieval of Wear Offset Data



Acquired Data
analyzed with
NT Thermo Navigator AI

Feedback

Compensation model
built using
AI machine learning.



Standard for NT Smart X

Powered by AI

Time and measured dimension data are input into a dedicated AI Learning software, to build an optimized thermal growth compensation model.

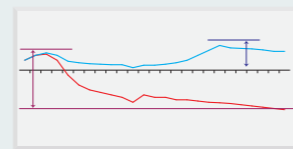


High Precision Thermal Growth Compensation

The compensation value is calculated from acquired data.

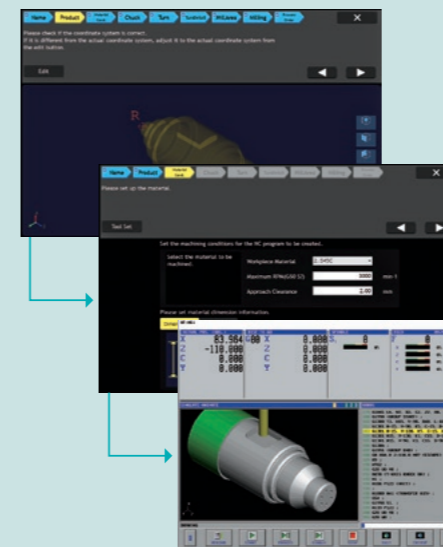
The more data is input, the more accurate is the compensation value.

- Pre-correction thermal displacement data
- Thermal displacement data after correction



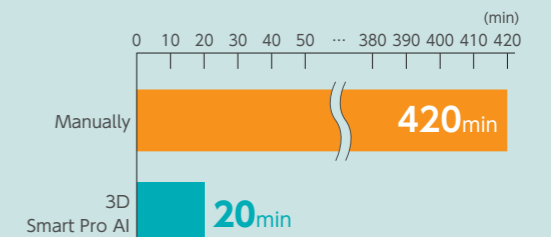
3D Smart Pro AI AI Analysis NC Programming Support Function

This function analyzes 3D CAD model data and generates an NC program for processing from blank to finished parts. Simply follow the displayed guidance and enter the required information to create the program.

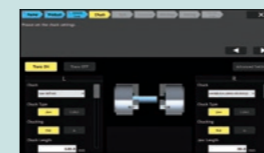


Operators can also set
detailed machining
methods.

It drastically
reduces
man-hours
required for
creating NC
programs
and improves
set up and
production
efficiency.



* NC programming level : Beginner engineer



Transfer Setting

Once the transfer position is set, the machining area and transfer program are created.



Tolerance Setting

Once the tolerance value is input, the target value for machining can be set.



Optimization of Machining Processes

In addition to defining the required machining processes, AI proposes a suitable machining process sequence.



Tool Guide

If the tool configuration is incomplete, the AI analyzes the CAD model data and provide the necessary tool information.



Digital Chuck
Interlock

Set the Chuck Open and Close detection position easily.

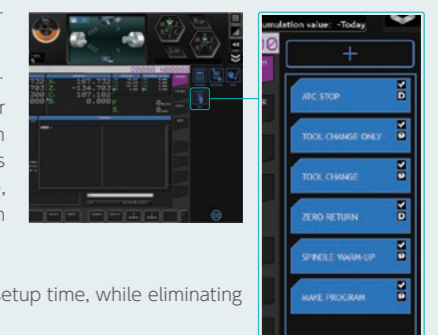
The chuck open / close position is set on the NT SmartX screen.

Setup time and machining cycle time are reduced.

One Touch MDI

This function is to register frequently used program blocks or cycles, such as zero return or tool change, and call them again with one touch.

Reduce programming and setup time, while eliminating input errors.



NT Manual Guide i ~ LUCK-BEI II ~

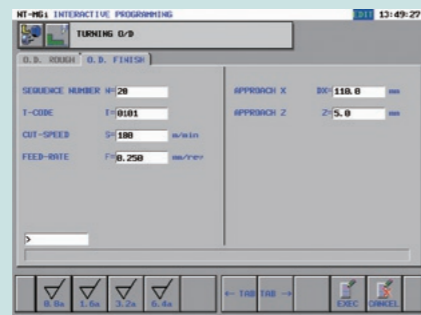
It helps to make NC programs (ISO/EIA G-code programs) used in a machining process program.

A programming guidance system with the ability to generate NC programs (ISO/EIA G-code programs) easily. Processes created in conversational mode can be cut, copied or pasted ensuring flexibility. Additionally, several cycles such as part-transfer cycle, requiring

waiting M-codes, are readily made with the "NC program editing support function". The "NC program simulation function" can be used to check created- programs by tool-path simulation or solid-model animation.



By selecting the material, cutting conditions are automatically input.



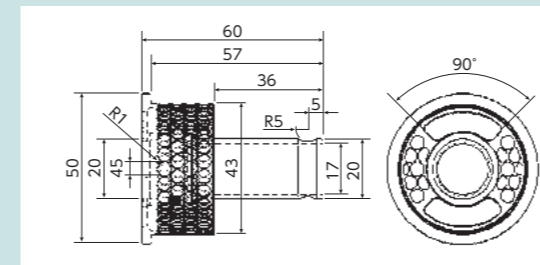
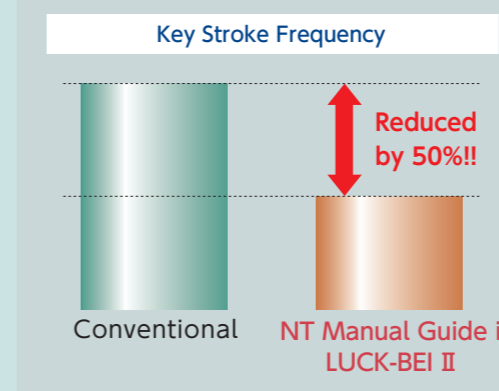
By selecting the material, cutting conditions are automatically input.



Cutting conditions End mill

Automatic Cutting-Condition Setting Function

By setting the material type and required surface roughness, cutting conditions are automatically generated. These can be also changed depending on customer's experience.

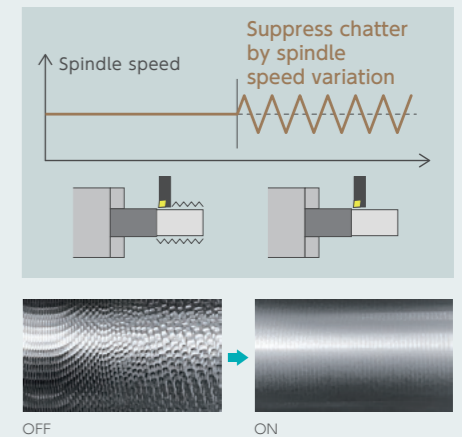


By introducing the "automatic cutting condition setting function", the number of key strokes required to make a program were reduced by 50% reduced, compared with the previous NT Manual Guide i version.

Chatter Canceller

Reduce the chatter and vibration by automatically changing the spindle speed up/down continuously during cutting. The function can be easily turned on with the M-code, and the amplitude and frequency can be set arbitrarily.

* It does not guarantee that the function works without chatter and vibration.
* Chatter and vibration reduction depend on the setup and the cutting condition.



Double safety features for maximum protection

NT Machine Simulation / NT Collision Guard + Airbag (Overload detection)

The machine comes protected with dual safety features: "NT Machine Simulation/NT Collision Guard" to prevent a collision beforehand, and the "Airbag Function" minimizes damage to the machine in case of collision.

NT Machine Simulation

Machine collisions are avoidable with Preventive safety technology! Interference checks can be carried out based on the machining paths obtained from the NC program. By simulating machine operations before starting machining, it is possible to reduce the risk of machining errors and interference.



Image shown here is of a 2-turret machine

Simulation is performed while checking the remaining movement amount and modal information.

It is possible to override the settings for rapid and cutting feed individually. Additionally, simulation by process or by single block is possible.

By process
Single feed

NT Collision Guard

NT Machine Simulation is synchronized with the machine operation, allowing the machine to be operated while performing interference checks. Available in automatic and manual mode. If interference is detected, the machine will stop just before the collision.



Image shown here is of a Tool spindle machine

Airbag (Overload detection)

The software's barrier system is not foolproof. Making a data input mistake will result in a machine collision. However, Nakamura-Tome machines will not break even after the machine collision.

When the machine collides, there is no reason to panic.

The Airbag (Overload detection) of the machine tool significantly reduces the impact of a collision and protects the machine.



Without Airbag

Machines will not stop immediately. The slide continues to move even after a collision.

With Airbag

Retraction within 0.001 sec
Crash? Within one millisecond after a collision, the servo motor direction is reversed, and the machine stops in EMG mode.

Barrier? Even with barrier function, machine collisions may occur



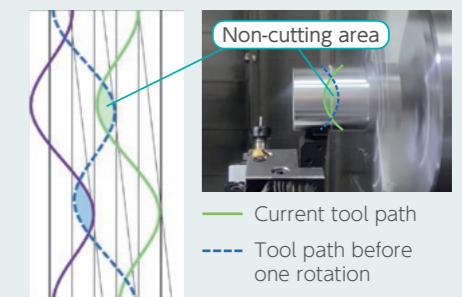
▲Video



* It is not a function that guarantees the prevention of machine break. This function does not eliminate the impact on the machine.

Oscillation Cutting (op.)

By oscillating the tool for a certain period, the chips are cut into small pieces. It can be activated easily by using a simple FANUC G-code and resolve workpiece damage issues caused by chips twined around the part.



Material : Aluminum
Cutting speed : 200mm/min
Cutting feed : 0.1mm/rev
Cutting depth : 1.0mm

NT NURSE

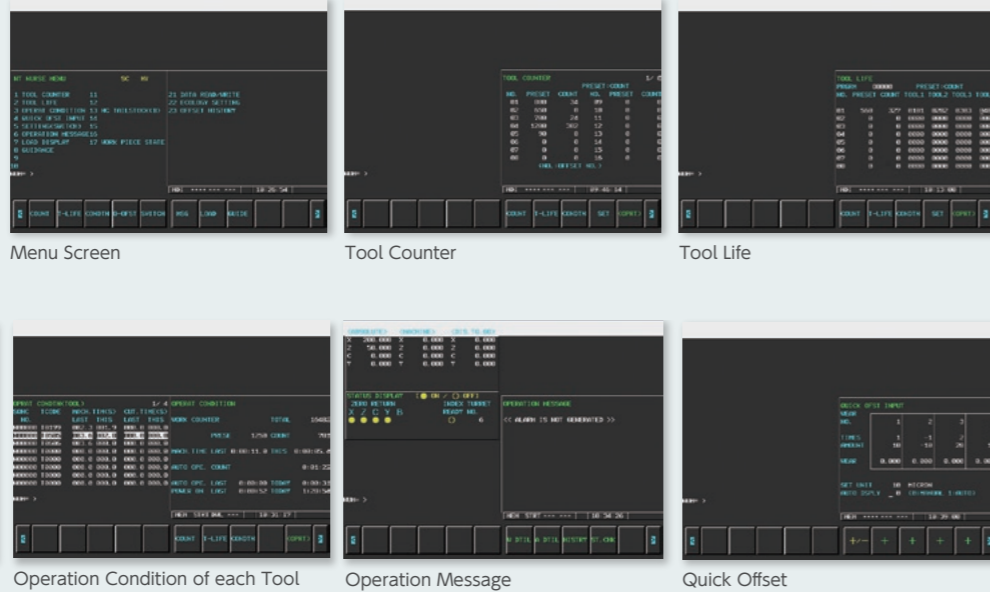
※Depending on machine specifications, some functions are not available.

All-in-one software!

NT NURSE is software that provides the operator with user-friendly support for operation, programming and production on the machine. Among vital features are phase recognition (a must for multi-tasking), direct chucking to prevent positioning error during transfer, and perfect synchronization of the left and right hand spindles. Among other

features, are the load monitor for detecting tool wear and tool breakage, tool life management, operation condition monitoring, in addition to many other features to simplify programming, set up, operation and production, all offered in one single package.

Useful functions

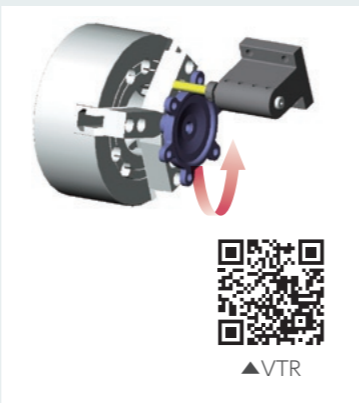


NT WORK NAVIGATOR

X Y Z B C

No fixtures required

Machining parts with non-round shapes, such as forgings or castings require that the raw part coordinates be recognized by the CNC control. It works just by touching the part with a simple inexpensive probe (mostly a round bar mounted on a tool holder) and using the torque control feature of the servo-motor, which is to record required coordinates in the CNC. The NT WORK NAVIGATOR is eliminating the need for positioning fixtures and special clamping devices.



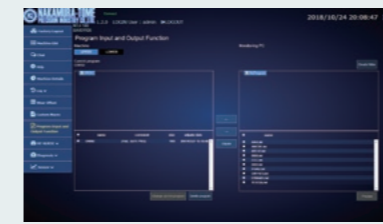
NT Smart Sign Nakamura-Tome IoT software

Monitoring



Real Time Monitoring of machine running conditions, in addition to visualizing alarm history and past events.

Data Input/Output

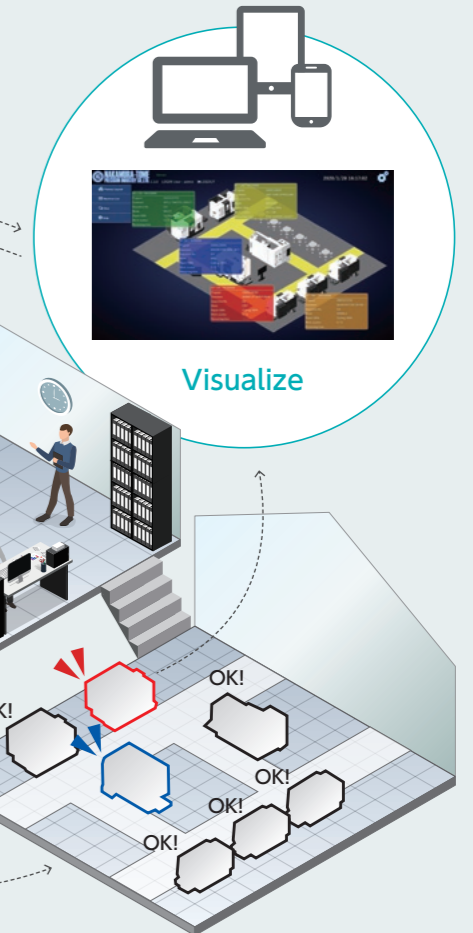


Input and output programs, tool data and other machine data from the monitoring PC.

Diagnosis



Diagnose problems with the machine servo drives and spindle drives, using a dedicated program.



NT Update

* Please check Nakamura-Tome website for the countries where this service is provided.

Web site of Nakamura-Tome Exclusive membership. The necessary software can be downloaded and update your machine's software to the latest version.

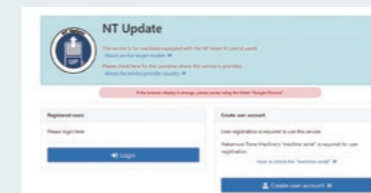
Just register as a user on the membership website and start using the service right away.

Scan here to register as a user ▶



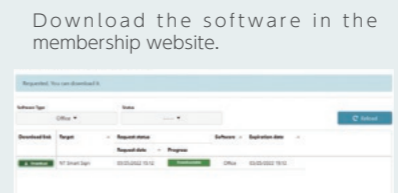
① Registration

Enter user and machine information on the membership website.



② Download Software

Enter the issued user ID and password to log in.



③ Software Update

Save the installer to USB and insert it into the machine.

Put the machine in emergency stop and execute Setup.bat in the USB to install the following software.

NT-IPS NT NURSE
NT Collision Guard NT Manual Guide i

Lineup Multitasking Machine

ATC series	 MX-100	 JX-200	 JX-250	 NTRX-300	 NTRX-300L		
B-axis series 2-Turrets	 NTJ-100	 Super NTJ	NTY³ series 3-Turrets	 NTY ³ -100V	 NTY ³ -150	 NTY ³ -250	
WY series 2-Turrets	 WY-100V	 WY-150V	 WY-250L	AS series 1-Turret	 AS-200	 AS-200L	
WT series 2-Turrets	 NT-Flex	 WT-100	 WT-150II	 WT-250II	 WT-300	TW series 2-Turrets	 NEW TW-30
SC series 1-Spindle	 SC-100X ²	 SC-100	 SC-200II	 SC-200IIL	 SC-300II	 SC-300IIL	 SC-450L

Automation



Shaft Loader
ZEN-BEI



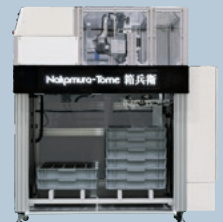
Shaft Unloader
HAI-BEI



Gantry Loader
GR-203 High-Speed



Built-in Automation
Compact Loader



Work Stoker
HAKO-BEI



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