



# Nakamura-Tome

ATC Platform for Reduced Setup  
True 5-axis Capabilities



## NTRX-300

### Features:

- Left and right spindles: 30 HP
- 3.15 in. (80mm) bar capacity on both L + R
- 12,000 rpm / 25 HP tool spindle
- 10 in. (254mm) of Y-axis stroke
- Built in slug load/unloader
- Fanuc 31i-B5 5-axis control

### Benefits:

- ATC for reduced setup time
- 5 in. (127mm) X-axis stroke below center line

### Options:

- 60, 80, 120 tool ATC
- Tool setter
- Long bed version with 72.8 in. (1850mm) between spindles



# NTRX-300 | Specs

Specifications	Unit	NTRX-300				
<b>Capacity</b>						
Max. Turning Diameter	inches (mm)	25.2 (640)				
Max. Turning Length	inches (mm)	45.3 (1150)				
Distance Between Spindles	inches (mm)	NTRX-300: max. 53.2, min. 9.8 (max. 1350, min. 250)				
		NTRX-300L: 72.8 in. (1850mm)				
Bar Capacity	inches (mm)	L, R 2.6 (L, R 65)		L, R 2.8 (L, R 71 (op.))		
		L, R 3.2 (L, R 80 (op.))		L 3.5 / R 80 (L 90 / R 80 (o.p))		
Chuck Size	inches (mm)	8.3 (210)		10 (254)		
<b>Axis Travel</b>						
X1 / Z1 / B2 Slide Travel	inches (mm)	27.6 / 44.3 / 43.3 (700 / 1125 / 1100)				
Y Slide Travel	inches (mm)	9.8 (±4.9) (250 (±125))				
<b>Left Spindle</b>						
		ø65	ø71 (op)	ø80 (op)*	ø80 (op)	ø90 (op)
Spindle Speed	min <sup>-1</sup>	4500		3500		2500
Spindle Nose	-	A2-6		A2-8		
Spindle Bearing ID	inches (mm)	4.7 (120)	5.1 (130)		5.9 (150)	
Main Spindle Motor	kW	15/11		22/18.5		
<b>Right Spindle (optional)</b>						
		ø65	ø71 (op)	ø80 (op)*	ø80 (op)	ø90 (op)
Spindle Speed	min <sup>-1</sup>	4500		3500		2500
Spindle Nose	-	A2-6		A2-8		
Spindle Bearing ID	inches (mm)	4.7 (120)	5.1 (130)		5.9 (150)	
Main Spindle Motor	kW	15/11		22/18.5		
<b>Tailstock (optional)</b>						
Driving Methods	-	NC control servo driven				
Tailstock Positioning Stroke	inches (mm)	43.3 (1100)				
Rapid Feed Rate	in./min. (mm/min.)	315 (8000)				
Tailstock Spindle Taper Size	-	MT-5 (built in center)				
Ballscrew Diameter	inches (mm)	1.4 (36)				
Ballscrew Pitch	inches (mm)	0.4 (10)				
Tailstock Force	kN	2.5 - 6.5				
<b>Tool Spindle</b>						
Tool Spindle Speed	-	8000min <sup>-1</sup> (op. 12000 min <sup>-1</sup> )				
Tool Spindle Motor	kW	18.5/11				
B-axis Positioning Range	degree	225 (-120, +105)				
Tool Shank Type	-	HSK-A63 (op. CAPTO C6)				
<b>Automatic Tool Changer</b>						
Number of Tools	-	40 (op. 60, 80, 120)				
Max. Tool Diameter (no adjacent tools)	inches (mm)	3.5 (5.1) (90 (130))				
Max. Tool Length	inches (mm)	11.8 (300)				
Max. Tool Weight	lbs (kg)	26.5 (12)				
<b>General</b>						
Floor Space (L x W x H)	inches (mm)	178.3 x 105.1 x 102.8 (4529 x 2670 x 2610) (including chiptank)				
Machine Weight (incl. control)	lbs (kg)	37478.5 (17,000)				

\*Direct connect type (without draw tube adaptor)  
Specifications subject to change without notice

## Standard Equipment

- 30 HP left and right spindles
- 3.2 in. (80mm) left and right bore
- 25 HP tool spindle at 12000 rpm
- 10 in. (254mm) of Y-axis travel
- 53 in. (1346mm) between spindle faces
- Tool breakage wand
- Auto slug load / unload
- 5-axis software package

## Optional Equipment

- Tool setter
- 60 / 80 / 120 tools
- Chip conveyor
- High pressure coolant



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### CORPORATE OFFICE TECHNICAL CENTER AND SHOWROOM

65 Union Avenue, Sudbury, MA 01776  
978.443.5388 | sales@methodsmachine.com

Charlotte 704.587.0507 Chicago 847.783.6800 Detroit 248.624.8601 Los Angeles 714.521.2507 Phoenix 602.437.2220 San Francisco 510.636.1430

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