

SC-300IF Specifications



Nakamura-Tome

GENERAL SPECIFICATION

Capacity	Unit	Ø71mm	Ø89mm (op.)
Max. turning diameter	mm	360	
Max. turning length (Tailstock/Sub Spindle)	mm	600 / 635	
Distance between centre (Tailstock)	mm	max. 713.5 / min. 213.5	
Distance between spindles (Sub Spindle)	mm	max. 910 / min. 310	
Bar capacity (L/R)	mm	Ø71 / Ø51	Ø89 / Ø51 (op.)
Chuck size (L/R)	Inch	10, 12 / 6, 8	

Machine	Unit	
Floor Space (LxWxH)	mm	3,995 x 2,130 x 2,300
Machine Weight	kg	9,000

TECHNICAL SPECIFICATION

Axis Travel / Rapid Feed	Unit	
Slide travel X	mm	232.5 / 215 (Sub Spindle)
Slide travel Z	mm	635
Slide travel Y	mm	±60
Slide Travel B2 (Sub Spindle)	mm	600
Rapid feed X	m/min	25
Rapid feed Z	m/min	30
Rapid feed Y	m/min	12.5
Rapid feed B2 (Sub Spindle)	m/min	20

Left Spindle	Unit	Ø71mm	Ø89mm (op.)
Spindle speed	min-1	3,5000	3,5000
Spindle speed range		Stepless	Stepless
Spindle nose		A2-8	A2-8

Left Spindle	Unit	Ø51mm
Spindle speed	min-1	5,0000
Spindle speed range		Stepless
Spindle nose		A2-5

C-Axis	Unit	
Least input increment	Deg	0.001
Least command increment	Deg	0.001
Rapid speed	min-1	200
Cutting feed rate	Deg/min	1-4,800
C-axis clamp		Disk clamp
C-axis connecting time	Sec	1.5

Turret	Unit	Dodecagonal drum	16-station
Type of turret head		Dodecagonal drum turret	16-station turret
Number of tool stations		12 stations	16 stations
Number of indexing positions		24	16
Tool size (square/round)	mm	□25 / Ø40	□20 / Ø32

SC-300IIF Specifications



Nakamura-Tome

Milling	Unit	Dodecagonal drum turret	16-station turret
Rotary system of turret head		Individual rotation	
Spindle speed	min-1	6,000	
Number of indexing positions		Stepless	
Number of milling stations		12	16
Tool size (straight)	mm	Ø1 – Ø25	Ø1 – Ø16
Tool size (cross)	mm	Ø1 – Ø25	Ø1 – Ø16

Tailstock (OP.)	Unit	NC Type	Hyd. Knock type (op.)
Driving system		Z-axis slide (knock type)	NC control servo driven type
Travel / Rapid feed	mm / -	400	500mm / 8m/min
Range of thrust force	kN	1.3-7.85	2.5-6.5
Rotating centre		MT-5 (Rotating centre), MT-4 (Built-in centre)	
Quill diameter / Quill stroke	mm	Ø90 / 100	-

Drive Motor Power	Unit		
Left spindle	kW	22/18	
Sub Spindle	kW	15/11	
Milling spindle	kW	7.5/3.7	5.5/3.7