

TCR Series Specification

Page 1

Model	Unit	TCR-4232/5232/6232/8232/10232	TCR-4237/5237/6237/8237/10237	TCR-4242/5242/6242/8242/10242
Travel				
X-axis	mm	4200/5200/6200/8200/10200	4200/5200/6200/8200/10200	4200/5200/6200/8200/10200
Y-axis	mm	3200	3700	4200
Z-axis	mm	ST 900/ OP 1100	ST 900/ OP 1100	ST 900/ OP 1100
W-axis	mm	ST 1000/ OP 1700	ST 1000/ OP 1700	ST 1000/ OP 1700
Guide Way (X / Y / Z)	type	Roller-type Linear Guide Way	Roller-type Linear Guide Way	Roller-type Linear Guide Way
Distance from Spindle Nose to Table Surface	mm	-150~1750/ -150~2650	-150~1750/ -150~2650	-150~1750/ -150~2650
Distance Between Two Columns	mm	2700	3200	3700
Table				
Table Dimension	mm	4000/5000/6000/8000/10000× 2000	4000/5000/6000/8000/10000× 2500	4000/5000/6000/8000/10000× 3000
Max. Loading Capacity	tons	25/30/30/30/30	25/30/30/30/30	25/30/30/30/30
T-slots (Number × Width × Pitch)	no×mm	28 × 8 × 250	28 × 10 × 250	28 × 12 × 250
Spindle				
Spindle Motor (Continuous / 30 Min)	kW	37 / 45	37 / 45	37 / 45
Spindle Speed (Built-in Grease) ST	rpm	Built-in Grease 6000	Built-in Grease 6000	Built-in Grease 6000
Spindle Speed (Built-in Oil Mist) OP	rpm	Built-in Oil Mist 8000	Built-in Oil Mist 8000	Built-in Oil Mist 8000
Spindle Taper	type	#50	#50	#50
Spindle Bearing Bore Diameter	Φmm	Φ100	Φ100	Φ100
Feed				
Rapid Travel Rate X	m / min	20/20/20/10/10	20/20/20/10/10	20/20/20/10/10
Rapid Travel Rate Y	m / min	20	20	20
Rapid Travel Rate Z	m / min	20	20	20
Rapid Travel Rate W	m / min	3	3	3
Cutting Rate X/Y/Z	mm / min	10000	10000	10000
Cutting Rate W	mm / min	3000	3000	3000
Axis Motor	kW	X(6)/Y(7)/W(7x2)/Z(7x2)	X(6)/Y(7)/W(7x2)/Z(7x2)	X(6)/Y(7)/W(7x2)/Z(7x2)
ATC				
Magazine Capacity	tools	40/60/90/120	BT50 / CAT50	BT50 / CAT50
Max. Tool Diameter (with adjacent tool)	Φmm	Φ125	Φ125	Φ125
Max. Tool Diameter (without adjacent tool)	Φmm	Φ215	Φ215	Φ215
Max. Tool Length	mm	400	400	400
Max. Tool Weight	kg	20	Φ125	Φ125
Tool Shank Type	type	BT50/CAT50	Φ215	Φ215
Pull Stud	type	P50T-1	400	400
Power Supply				
Power Supply	kVA	65	65	65
Controller		FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN	FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN	FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN
External Dimension				
Net Weight (RV)	tons	49/53/57/67/77	56/62/68/80/92	64/71/78/93/108
External Dimension (Width×Height)	mm	6980 × 5850	7480 × 5850	7980 × 5850
External Dimension (Length)	mm	13015/15015/17015/19015/21015	13015/15015/17015/19015/21015	13015/15015/17015/19015/21015
Accuracy (Following values were tested in the temperature-controlled room)				
Positioning (JIS 6338)	mm	±0.015 Full Travel	±0.015 Full Travel	±0.015 Full Travel
Positioning (VDI 3441)	mm	P0.03/P0.04/P0.05/P0.07/P0.09	P0.03/P0.04/P0.05/P0.07/P0.09	P0.03/P0.04/P0.05/P0.07/P0.09
Repeatability (JIS 6338)	mm	±0.003	±0.003	±0.003
Repeatability (VDI 3441)	mm	P0.025/P0.03/P0.035/P0.055/P0.07	P0.025/P0.03/P0.035/P0.055/P0.07	P0.025/P0.03/P0.035/P0.055/P0.07