

# 5axis rotary table specification (SC-RT170 )



## Advantages

The 5 axis rotary table is Roller CAM Driver one of the finest motion control mechanisms available. The unit is constructed from an input shaft (the roller gearcam) and a turret (output shaft) fitted with roller followers. The roller followers are preloaded against a screw-like input shaft to completely eliminate backlash. Our proprietary adjustment mechanism provides optimum preload. The roller followers lanted in the turret use internal roller bearings to transfer torque while rotating. This ensures zero backlash, outstanding precision, and excellent efficiency without causing wear, while providing long-term consistent accuracy

- 1、 No backlash(play) during the clockwise/anti-clockwise rotation
- 2、 No wear because power transfers through rolling contact
- 3、 High accuracy and good efficiency
- 4、 Preload and high rigidity



## Specs

Description		Unit	SC-RT170	
Table Diameter		mm	170	
Center Height (Vertical)		mm	155	
Diameter of Table Central Hole		mm	φ45H7	
T-Slot		mm	12H7	
Allowable Workpiece Load	Vertical 	kg	35	
	Horizontal 	kg	50	
Net Weight (servo motor excluded)		kg	150	
Axis		/	Rotary axis	Tilt axis
Cooling System		/	Free Colling	
Transmission Mechanism		/	Roller Gear Cam	
Angle range		/	360°	±115°
Min. Increment		deg.	0.001	0.001
Speed Reduction Ratio		/	1/30	1/48
Rated / Max. Speed		rpm.	75	62.5
Indexing Precision		sec.	±20	±40
Repeatability		sec.	±4	±4
Clamping System(Hydraulic)		Mpa	0.6	0.6
Clamping Torque		N.m	/	/
Servo Motor Model	FANUC	Taper / Straight	αiF8 /βis12	αiF8 /βis12
	MITSUBISHI	Straight	HF154S	HF154S
	BROTHER	Straight	1FK7063	1FK7063
	YASKAWA	Straight	SGMGV-20A	SGMGV-20A