

## The 4<sup>th</sup> Axis Roller Gear Cam Series

- Pneumatic Brake / Hydraulic Brake



RC-170R



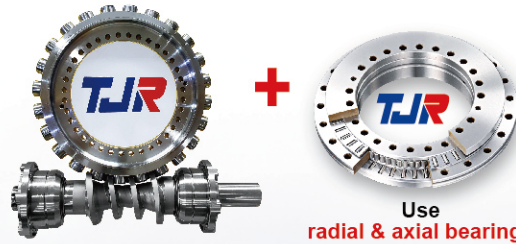
RC-255N



RC-320N



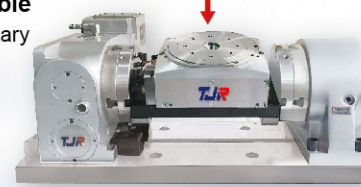
RC-400N



Use radial & axial bearings

90° indexer

A simplified 4<sup>th</sup> & 5<sup>th</sup> axis rotary table  
Tilt axis: roller gear cam or DD motor rotary table  
Rotary axis: 90° indexer

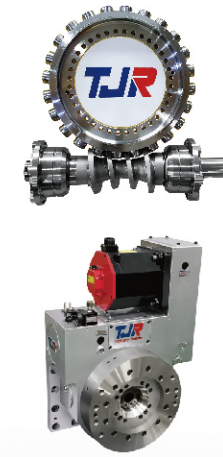


It can do five face machining without employing a standard 4<sup>th</sup> & 5<sup>th</sup> axis rotary table.

Driven by Roller Gear Cam  
(Speed : 80 rpm)

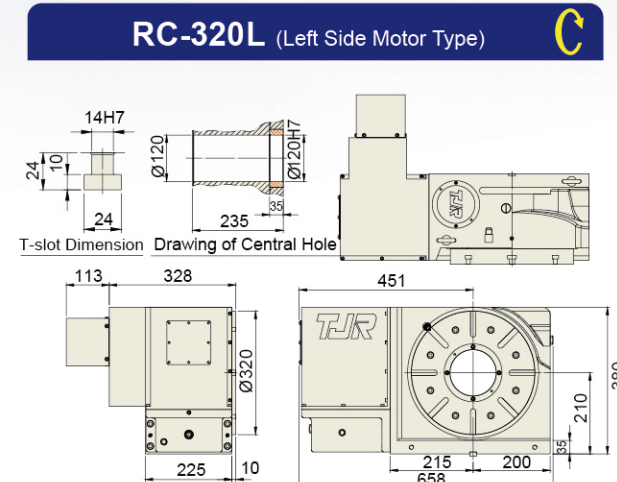
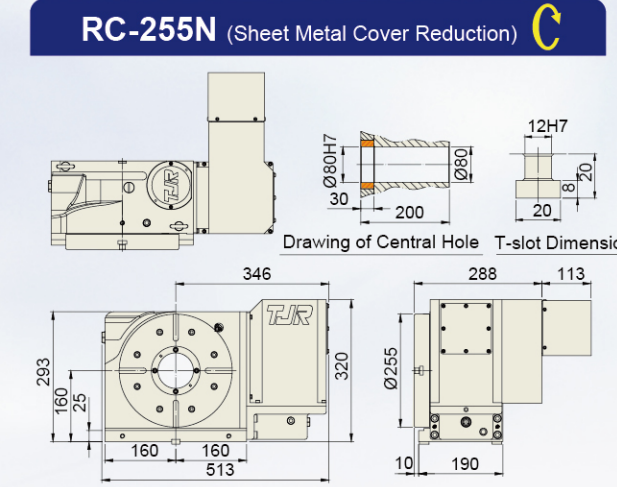
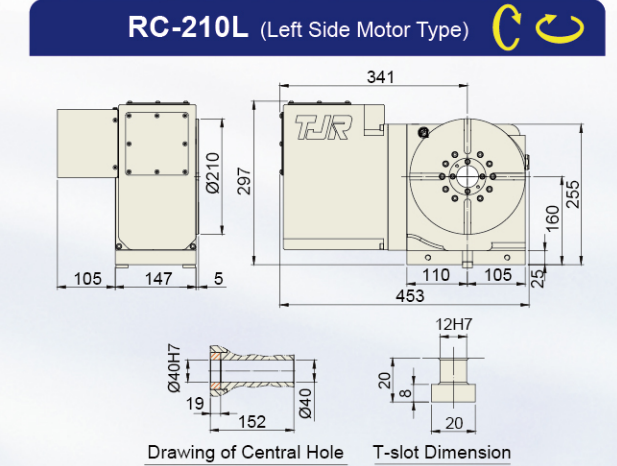
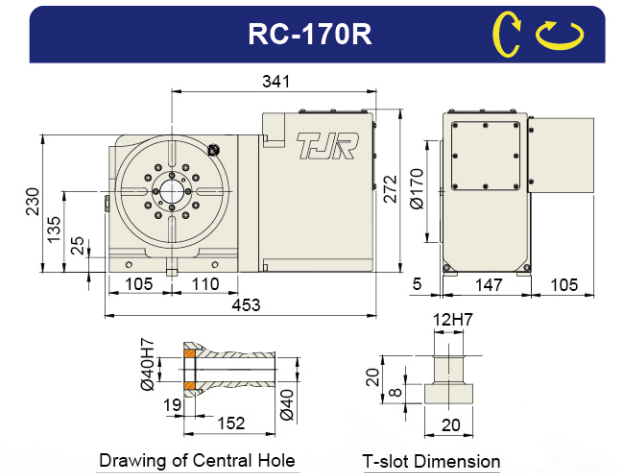
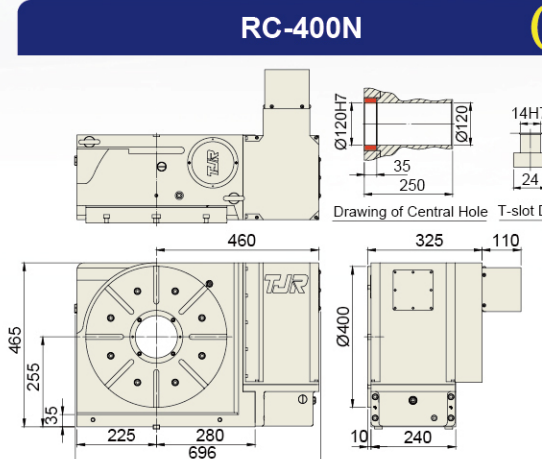
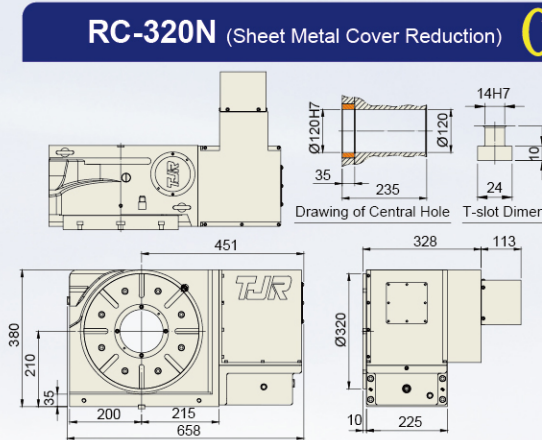
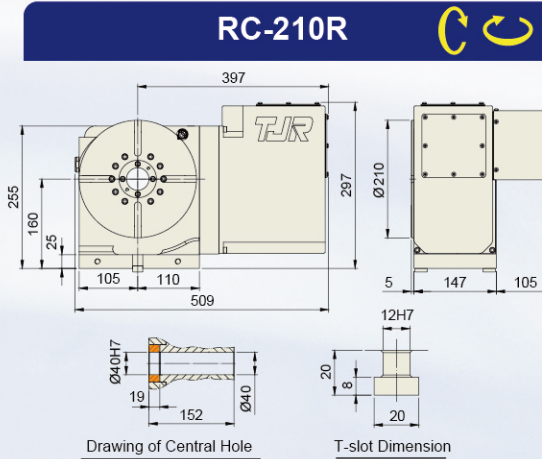
Made by Japanese roller gear cam master

Item	Unit	RC-170R	RC-210R	RC-255R(N)	RC-320R(N) / 320L	RC-400	
Table Diameter	mm	Ø170	Ø210	Ø255	Ø320	Ø400	
Diameter of Table Central Hole	mm	Ø67	Ø67	Ø110	Ø150	Ø150	
Inner Diameter of Mandrel Sleeve	mm	Ø40H7	Ø40H7	Ø80H7	Ø120H7	Ø120H7	
Diameter of Center Through Hole	mm	Ø40	Ø40	Ø80 Big Bore	Ø120 Big Bore	Ø120 Big Bore	
Center Height (Vertical)	mm	135	160	160	210	255	
Table Height (Horizontal)	mm	152	152	200	235	250	
Table T-slot Width	mm	12H7	12H7	12H7	14H7	14H7	
Guide Block Width	mm	18h7	18h7	18h7	18h7	18h7	
Min. Increment	deg.	0.001	0.001	0.001	0.001	0.001	
Indexing Precision	sec.	30	30	20	20	20	
Repeatability	sec.	8	8	6	6	6	
Clamping System (Pneumatic / Hydraulic)	kgf/cm <sup>2</sup>	Pne.6	Pne.6 / Hyd.35(Optional)	Hyd.35	Hyd.35	Hyd.35	
Clamping Torque	kgf-m	31	31 (Pne.) / 50 (Hyd.)	70	115	200	
Servo Motor Model	FANUC Taper shaft	αiF8 / βis8	αiF8 / βis8	αiF8 / βis12 (Taper)	αiF12 / βis22 (Straight)	αiF12 / βis22 (Straight)	
	MITSUBISHI Taper/Straight shaft	HG/HF-54 / 104	HG/HF-54 / 104	HG/HF-154	HG/HF-204	HG/HF-204 (Straight)	
Speed Reduction Ratio	-	1 : 36	1 : 36	1 : 60	1 : 90	1 : 90	
Max. Rotation Rate of Table (Calculate with FANUC αMotor)	r.p.m	83.3	83.3	50	33.3	33.3	
Allowable Inertia Load Capacity (Horizontal)	kg·cm·sec <sup>2</sup>	5.4	8.3	16.3	44.8	100	
Allowable Workpiece Load (dynamic)	Vertical	kg	75	100	150	200	
	with Tailstock	kg	150	150	250	350	500
Allowable Load (with clamping)	Horizontal	kg	150	150	250	350	500
	F	kgf	1450	1450	2000	3000	4000
Driving Torque	FxL	kgf-m	110	110	150	300	400
	FxL	kgf-m	31	31 (Pne.) / 50 (Hyd.)	70	115	200
Net Weight (Servo motor excluded)	kg	44	52	110	187	-	



▲ HRC-400-SP

Made by Japanese roller gear cam master



Driven by Roller Gear Cam