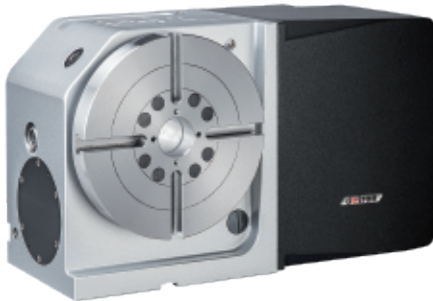
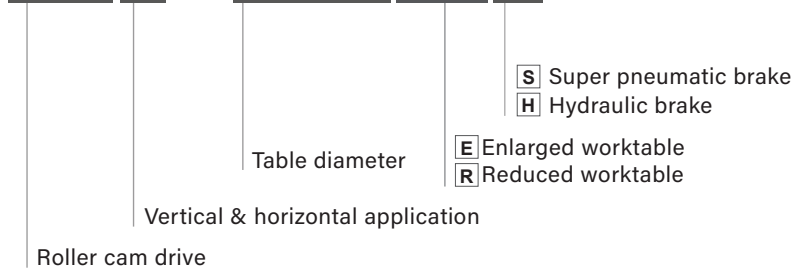


Roller Gear Cam Drive
Rotary Table

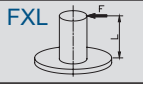
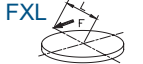
RCX-210S/H RCX-250ES/H
RCX-255H RCX-320H RCX-400H

RCX - 250 (E) S



- Rolling contact reserves high rigidity, high speed and long endurance.
- Least drive energy wear-out and more than 80% transmission rate.
- Backlash-free from rolling motion achieves high accuracy.

SPECIFICATIONS

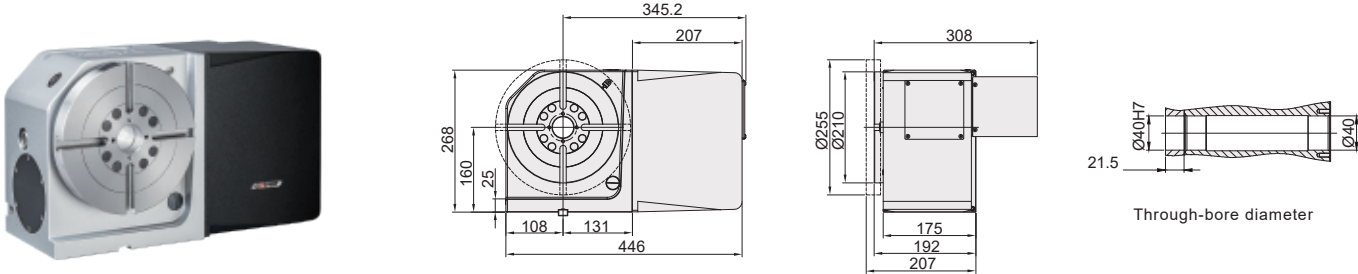
MODEL	Unit	RCX-210S/H RCX-250ES/H	RCX-255H	RCX-320H	RCX-400H
Worktable diameter	mm / inch	Ø210 / Ø8.27 Ø250 / Ø9.84	Ø255 / Ø10.04	Ø320 / Ø12.59	Ø400 / Ø15.75
Center bore diameter	mm / inch	Ø40H7 / Ø1.57H7	Ø140H7 / Ø5.51H7	Ø180H7 / Ø7.08H7	Ø220H7 / Ø8.66H7
Through-bore diameter	mm / inch	Ø40 / Ø1.57	Ø100 / Ø3.9	Ø140 / Ø5.5	Ø180 / Ø7.09
Height of table (horizontal)	mm / inch	192 / 7.6 207 / 8.15	216.5 / 8.5	235 / 9.25	255 / 10.04
Height of center (vertical)	mm / inch	160 / 6.30	190 / 7.49	210 / 8.26	255 / 10.04
Width of T-slot	mm / inch	12H7 / 0.47H7	12H7 / 0.47H7	14H7 / 0.55H7	14H7 / 0.55H7
Width of guide block	mm / inch	18 / 0.71	18 / 0.71	18 / 0.71	18 / 0.71
Clamping method /pressure	MPa / psi	P:0.55~0.7/79.8~101.5 H:2.5/363	Hydraulic 5 / 725	Hydraulic 5 / 725	Hydraulic 5 / 725
Clamping torque	N.m / ft. lbs.	400 / 295 600 / 443	1270 / 937	1600 / 1180	3000 / 2211
Servo motor spec		refer to page 73			
Transmission ratio		1 / 24	1 / 48	1 / 48	1 / 60
Max. table speed / at specified servo motor speed	min ⁻¹	83.3 / 2000	50 / 2400	50 / 2400	40 / 2400
Standard loading inertia ($\frac{W.D^2}{8}$)	Kg.m ²	0.72	2.43	5.12	15
Resolution	deg.	0.001	0.001	0.001	0.001
Indexing accuracy	sec.	20	20	15	15
Repeatability	sec.	6	6	6	4
Net weight (servo motor excluded)	kg / lb	70 / 154 78 / 172	126 / 278	193 / 425	262 / 577
Allowable loading capacity	Vertical	kg / lb	100 / 220	150 / 331	200 / 440
	Horizontal	kg / lb	200 / 441	300 / 661	400 / 881
	Tailstock applied	kg / lb	200 / 441	300 / 661	400 / 881
FxL When table clamped		N / lbs	14000 / 3147	20000 / 4496	28000 / 6294
		N.m / ft. lbs.	1020 / 752	1700 / 1254	3000 / 2212
		N.m / ft. lbs.	400 / 295 600 / 443	1270 / 937	1600 / 1180
Cam allowable torque	N.m / ft. lbs.	280 / 207	800 / 590	1098 / 809	1772 / 1307
Allowable Max. rotary joint quantity	Port	4	6	6	6

Note: FxL When table clamped is a reference data, the users should consider proper safety factor or contact detron for details.

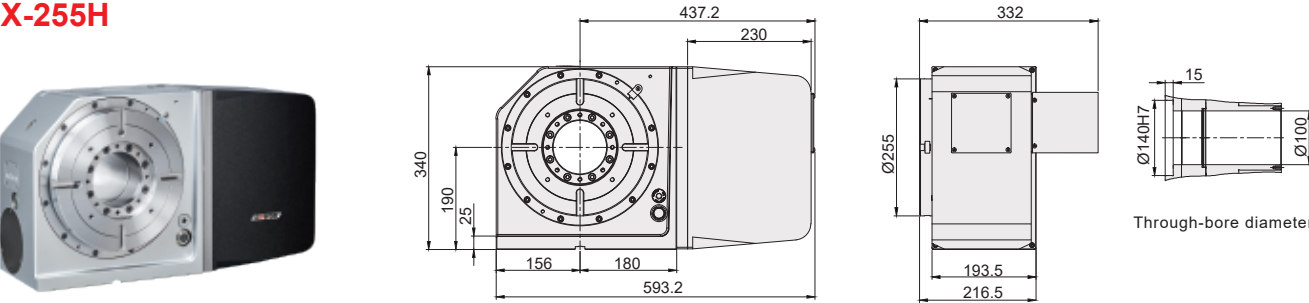
DIMENSIONAL DRAWINGS

RCX-210S/H Worktable can be enlarged to Ø250 (RCX250ES/H)

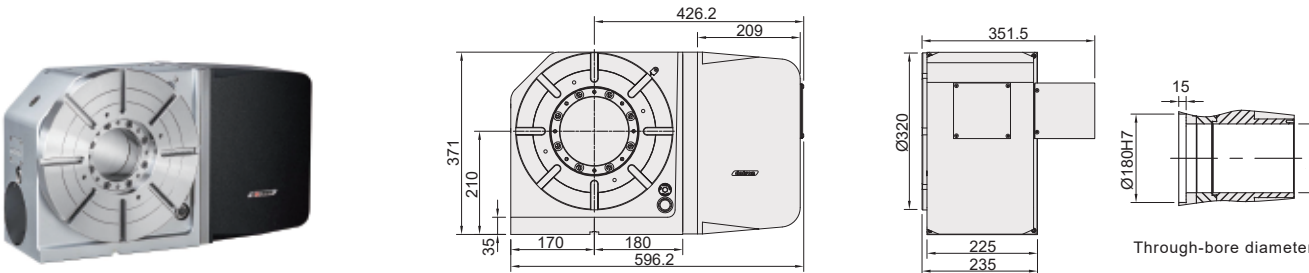
Unit : mm



RCX-255H



RCX-320H



RCX-400H

