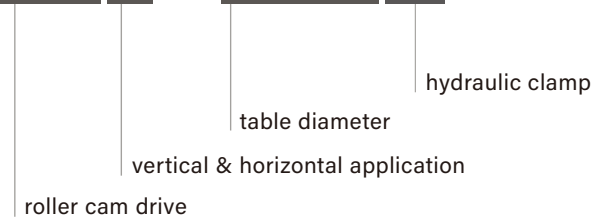


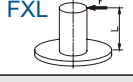
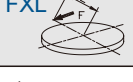
Roller Gear Cam Drive
Rotary Table

RCX - 255H



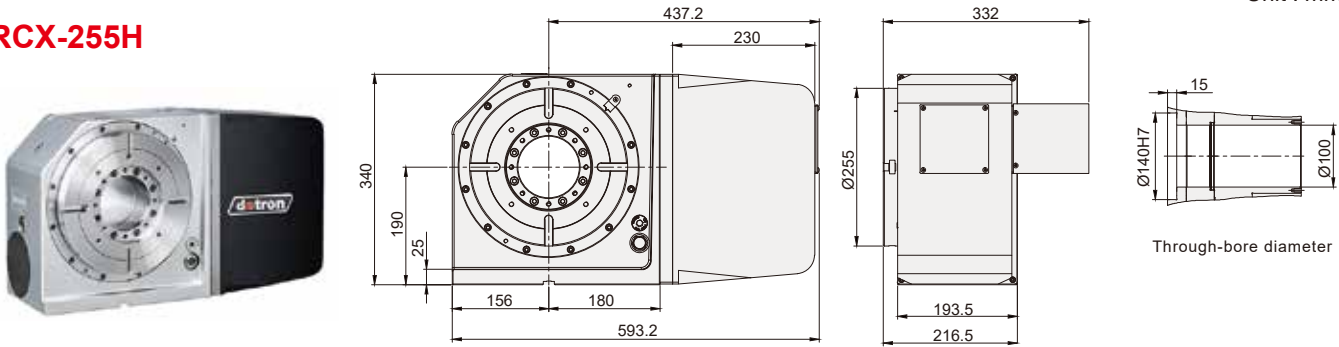
- Worktable diameter Ø255, Ø320, Ø400.
- Rolling contact reserves high rigidity, high speed and long endurance.
- Least drive energy wear-out and more than 80% transmission rate.
- Backlash-free from rolling motion achieves high accuracy.

SPECIFICATIONS

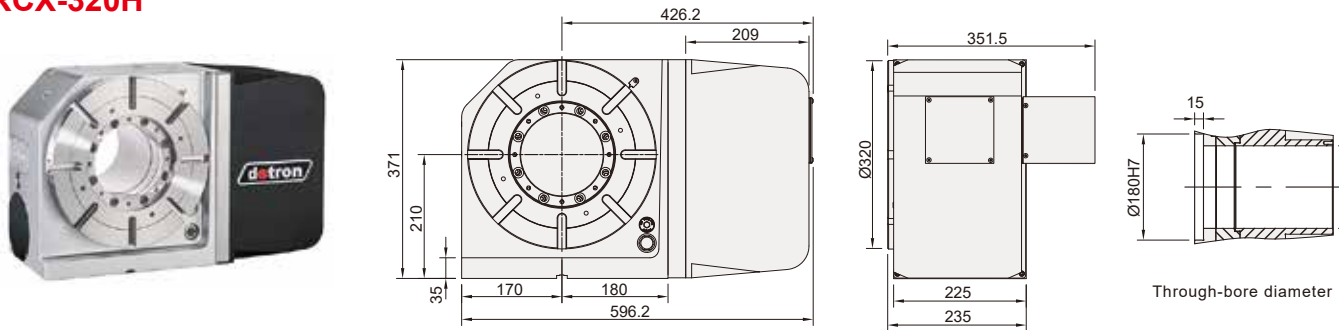
MODEL	Unit	RCX-255H	RCX-320H	RCX-400H	RCX-500H RCX-500HL
Worktable diameter	mm / inch	Ø255 / Ø10.04	Ø320 / Ø12.59	Ø400 / Ø15.75	Ø500
Center bore diameter	mm / inch	Ø140H7 / Ø5.51H7	Ø180H7 / Ø7.08H7	Ø220H7 / Ø8.66H7	Ø260H7
Through-bore diameter	mm / inch	Ø100 / Ø3.9	Ø140 / Ø5.5	Ø180 / Ø7.09	Ø220
Height of table (horizontal)	mm / inch	216.5 / 8.5	235 / 9.25	255 / 10.04	280
Height of center (vertical)	mm / inch	190 / 7.49	210 / 8.26	255 / 10.04	310
Width of T-slot	mm / inch	12H7 / 0.47H7	14H7 / 0.55H7	14H7 / 0.55H7	18H7
Width of guide block	mm / inch	18 / 0.71	18 / 0.71	18 / 0.71	18
Clamping method /pressure	MPa / psi	Hydraulic 5 / 725	Hydraulic 5 / 725	Hydraulic 5 / 725	Hydraulic 5 / 725
Clamping torque	N.m / ft. lbs.	1270 / 937	1600 / 1180	3000 / 2211	3600 / 2655
Servo motor spec		refer to page 77			
Transmission ratio		1 / 48	1 / 48	1 / 60	1 / 90
Max. table speed / at specified servo motor speed	min ⁻¹	50 / 2400	50 / 2400	40 / 2400	25 / 3750
Standard loading inertia ($\frac{W.D^2}{8}$)	Kg.m ²	2.43	5.12	15	25
Resolution	deg.	0.001	0.001	0.001	0.001
Indexing accuracy	sec.	20	20	20	15
Repeatability	sec.	6	6	6	6
Net weight (servo motor excluded)	kg / lb	126 / 278	161 / 355	243 / 536	395
Allowable loading capacity	Vertical	kg / lb	150 / 331	200 / 440	250 / 550
	Horizontal	kg / lb	300 / 661	400 / 881	500 / 1100
	Tailstock applied	kg / lb	300 / 661	400 / 881	500 / 1100
FxL When table clamped		N / lbs	20000 / 4496	28000 / 6294	38000 / 8527.20
		N.m / ft. lbs.	1700 / 1254	3000 / 2212	5400 / 3983
		N.m / ft. lbs.	1270 / 937	1600 / 1180	3000 / 2212
Cam allowable torque	N.m / ft. lbs.	800 / 590	1098 / 809	1772 / 1307	1968
Allowable Max. rotary joint quantity	Port	6	6	6	6

DIMENSIONAL DRAWINGS

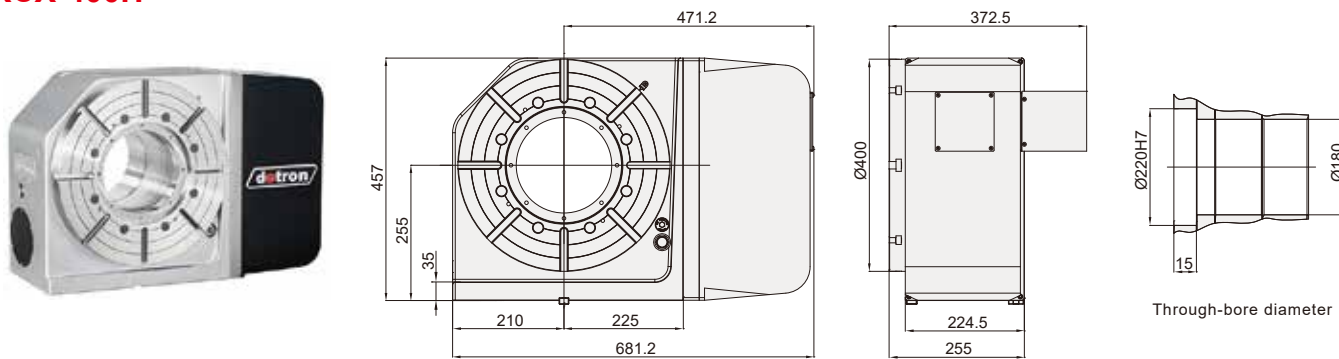
RCX-255H



RCX-320H



RCX-400H



RCX-500H/RCX-500HL

