



Standard Tilt Rotary Tables

- ▶ Tilt/rotary configuration permits complex 5 axis machining
- ▶ Turn your 3 axis machine into a 5 axis machine for a fraction of the cost of a new machine.
- ▶ High rigidity allowing for heavy loads
- ▶ Can be setup as full 4th / 5th axis or as an indexer

Standard Tilt Rotary Tables

Item/Model No.		TR-202	TR-252	TR-322	TR-402	TR-502	TR-632	TR-802							
Diameter of Table	mm / inch	Ø200 / 7.87"	Ø250 / 9.84"	Ø320 / 12.59"	Ø400 / 15.74"	Ø500 / 19.68"	Ø630 / 24.80"	Ø800 / 31.49"							
Diameter of Thru-hole	mm / inch	Ø35 / 1.37"	Ø70 / 2.75"	Ø110 / 4.33"	Ø150 / 5.90"	Ø180 / 7.08"	Ø254 / 10.00"	Ø300 / 11.81"							
Center Height in Vertical	mm / inch	315 / 12.40"	335 / 13.18"	397 / 15.63"	460 / 18.11"	500 / 19.68"	535 / 21.06"	600 / 23.62"							
Overall Height in Vertical	mm / inch	445 / 17.52"	465 / 18.31"	569 / 22.40"	670 / 26.38"	760 / 29.92"	860 / 33.86"	1000 / 39.37"							
Width of T Slot	mm	12 ^{H7}	12 ^{H7}	14 ^{H7}	14 ^{H7}	18 ^{H7}	18 ^{H7}	22 ^{H7}							
Width of Guide Block	mm	18 ^{H7}	18 ^{H7}	18 ^{H7}	18 ^{H7}	18 ^{H7}	18 ^{H7}	22 ^{H7}							
Axis		Rotating	Tilting	Rotating	Tilting	Rotating	Tilting	Rotating	Tilting	Rotating	Tilting	Rotating	Tilting	Rotating	Tilting
Clamping Torque(Hydraulic)	kgf•m / ft•lb	50 / 362	85 / 615	94 / 680	130 / 940	142 / 1027	190 / 1374	184 / 1331	209 / 1512	250 / 1808	335 / 2423	700 / 5063	725 / 5244	740 / 5352	980 / 7088
Servo Motor Type	FANUC	α4i	α8i	α8i	α8i	α12i	α12i	α12i	α22i	α22i	α22i	α22i	α22i	α22i	α30i
	MITSUBISHI	HF-103	HF-153	HF-153	HF-153	HF-203	HF-203	HF-203	HF-353	HF-353	HF-353	HF-353	HF-353	HF-353	HA-300NC
	SIEMENS	1FK7060	1FK7063	1FK7063	1FK7063	1FK7083	1FK7083	1FK7083	1FK7101	1FK7101	1FK7101	1FK7101	1FK7101	1FK7101	1FK7103
	HEIDENHAIN	QSY116E	QSY116E	QSY116E	QSY116E	QSY155B	QSY155B	QSY155B	QSY155D	QSY155D	QSY155D	QSY155D	QSY155D	QSY155D	QSY155F
Total Reduction Ratio		1:90	1:180	1:90	1:180	1:90	1:180	1:90	1:180	1:180	1:360	1:180	1:360	1:180	1:360
MIN. Increment	deg.	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°
MAX. Rotation Speed(Motor:2000 RPM)	RPM	22.2	11.1	22.2	11.1	22.2	11.1	22.2	11.1	11.1	5.6	11.1	5.6	11.1	5.6
Indexing Accuracy	sec.	25"	50"	15"	30"	15"	30"	15"	30"	15"	30"	15"	30"	15"	30"
Repeatability Accuracy	Unidirectional	8"		4"		4"		4"		4"		4"		4"	
	Bidirectional	16"		8"		8"		8"		8"		8"		8"	
Tilting Degree	deg.	-15°~115°	-15°~115°	-15°~115°	-15°~115°	-15°~115°	-15°~115°	-15°~115°	-15°~115°	-15°~115°	-15°~115°	-15°~115°	-15°~115°	-15°~115°	-15°~115°
MAX. Work Load	Horizontal	kg / lbs	100 / 220	130 / 287	200 / 441	300 / 661	410 / 904	560 / 1235	660 / 1455						
	Vertical	kg / lbs	50 / 110	75 / 165	100 / 220	150 / 331	190 / 419	280 / 617	360 / 794						
MAX. Thrust Load	F	kgf•m / ft•lb	500 / 3617	1000 / 7233	1500 / 10,850	2300 / 16,636	2800 / 20,252	3200 / 23,146	3800 / 27,485						
	FxL	kgf•m / ft•lb	16.5 / 119	27 / 195	37.5 / 271	60 / 434	130 / 940	205 / 1483	280 / 2025						
	FxL	kgf•m / ft•lb	15 / 108	25 / 181	35 / 253	50 / 362	100 / 723	170 / 1230	250 / 1808						
Driving Torque	kgf•m / ft•lb	17 / 123	22 / 159	26 / 188	32 / 231	65 / 470	100 / 723	160 / 1157							
N.W.	kg / lbs	260 / 573	450 / 992	900 / 1984	1200 / 2646	1600 / 3528	2935 / 6471	3900 / 8598							