



Compact Tilt Rotary Tables

- Turn your 3 axis machine into a 5 axis machine for a fraction of the cost of a new machine
- Compact design for smaller machining envelopes
- High rigidity allowing for heavy loads
- Can be setup as full 4th / 5th axis or as an indexer

Compact Tilt Rotary Tables							
Item/Model No.		TR-152S		TR-202S		TR-252S	
Diameter of Table	mm / inch	Ø150 / 5.9"		Ø200 / 7.87"		Ø250 / 9.84"	
Diameter of Thru-hole	mm / inch	Ø30 / 1.18"		Ø35 / 1.37"		Ø70 / 2.75"	
Center Height in Vertical	mm / inch	Ø160 / 6.29"		210 / 8.26"		215 / 8.46"	
Overall Height in Vertical	mm / inch	Ø320 / 12.59"		385 / 15.16"		390 / 15.35"	
Width of T Slot	mm	12 ^{H7}		12 ^{H7}		12 ^{H7}	
Width of Guide Block	mm	18 ^{H7}		18 ^{H7}		18 ^{H7}	
Axis		Rotating	Tilting	Rotating	Tilting	Rotating	Tilting
Clamping Torque (Hydraulic)	kgf•m / ft•lb	24	24	50	85	94	130
Servo Motor Type	FANUC	α2i	α4i	α4i	α8i	α8i	α8i
	MITSUBISHI	HF-75	HF-103	HF-103	HF-153	HF-153	HF-153
	SIEMENS	1FK7042	1FK7060	1FK7060	1FK7063	1FK7063	1FK7063
	HEIDENHAIN	QSY96A	QSY116C	QSY116E	QSY116E	QSY116E	QSY116E
Total Reduction Ratio		1:60	1:90	1:90	1:180	1:90	1:180
MIN. Increment	deg.	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°
MAX. Rotation Speed (Motor:2000 RPM)	RPM	33.3	22.2	22.2	11.1	22.2	11.1
Indexing Accuracy	sec.	60"	60"	25"	50"	15"	30"
Repeatability Accuracy	Unidirectional	8"		8"		4"	
	Bidirectional	16"		16"		8"	
Tilting Degree	deg.	-15°~115°		-15°~115°		-15°~115°	
MAX. Work Load	Horizontal	kg / lbs	60 / 132	100 / 220		130 / 287	
	Vertical	kg / lbs	30 / 66	50 / 110		75 / 165	
MAX. Thrust Load	F	kgf•m / ft•lb	200 / 441	500 / 3617		1000 / 7233	
	FxL	kgf•m / ft•lb	10 / 72	16.5 / 119		27 / 195	
	FxL	kgf•m / ft•lb	5 / 36	15 / 108		25 / 181	
Driving Torque	kgf•m / ft•lb	4 / 29		17 / 123		22 / 159	
N.W.	kg / lbs	120 / 265		260 / 573		450 / 992	