

DDM Trunnion
Tilting Rotary Table

DTFA(I)-650(E)H

DDM direct drive (torque motor)
low gravity design
five axes
new optimization model
refer to remark-2
table size
hydraulic clamp
enlarged worktable dia. (Opt.)



▲ Machine base supplied by buyer

- High Speed – The average rotation speed of a normal rotary table is 22.2 RPM. Whereas DDM Rotary Table runs at speeds exceeding 100RPM. Hence this is suitable for high speed turning and cutting applications.
- High Precision – Direct drive design is without the normal worm gear transmission. Hence, there is no backlash and mechanical errors. This guarantees very high positional accuracy and repeatability.
- Superior Surface Finish - No Backlash, No Abrasion & Low Inertia – No gears or belts in direct drive system ensures superior surface finish.

SPECIFICATIONS

MODEL	Unit	DTFAI-650H / DTFAI-720EH	D2TF-800H
Worktable diameter	mm / inch	Ø650 / Ø25.59 / Ø720 / Ø28.34	Ø800
Center bore diameter	mm / inch	Ø70H7 / Ø2.76H7	Ø60H7
Height of table	mm / inch	250 / 9.84	225
Width of T-slot	mm / inch	18H7 / 0.71H7	14H7
Width of guide block	mm / inch	-	-

Clamping method / pressure	MPa / psi	hydraulic 4 / 580	hydraulic 4 / 580
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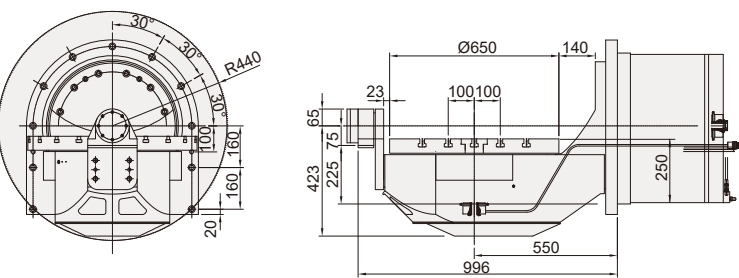
Max. table speed	min ⁻¹	R	T	R	T
		100	50	100	50
Clamping torque	N.m / ft. lbs.	2500 / 1843.91	4500 / 3319.03	3000	6000
Allowable loading capacity	In Horizontal	kg / lb	300 / 661.39	1000	
	In Tilting (0~90°)	kg / lb	300 / 661.39	1000	
Allowable unbalancing work moment	WxL	N.m / ft. lbs.	300 / 221.27	800	
FxL When table clamped	F	N / lbs	40000 / 8992.36	50000	
	FxL	N.m / ft. lbs.	2500 / 1843.91	3000	
	FxL	N.m / ft. lbs.	4500 / 3319.03	6000	
Allowable loading inertia	(W.D ² / 8)	kg.m ²	9.4	20	
Resolution	deg.	0.001		0.001	
Indexing accuracy	sec	10	20	10	20
Repeatability	sec	4	4	4	4
Tilting angle range	deg.	+110 ~ -110		-120 ~ +30	
Net weight (motor incl.)	kg / lb	1450 / 3196.7 / 1500 / 3306.9		2500	
Cooling system		Oil cooling		油冷式(與機床共用冷卻)	

Remark*: 1. Oil cooling device shall be connected and shared from the basic 3 axis standard machine.
2. DTFA: Rotary table mounted on M/C base. DTFAI: Tilting axis mounted inside of MC column.
3. FxL When table clamped is a reference data, the users should consider proper safety factor or contact detron for details.

DIMENSIONAL DRAWINGS

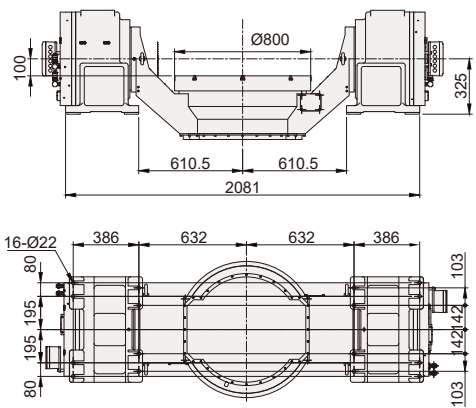
Unit : mm

DTFAI-650H



Machine base supplied by buyer

D2TF-800H



Tilting Rotary Table For Turning and Milling Machine ▶▶▶

G2DTF-630H(S)

Dual Drive CNC Deep Tilting Rotary Table (Max. table size 800mm)



Rotary Axis - DDM (800rpm)
Tilting Axis - Tandem drive by spur gear and worm gear

RC2DTF-410HS



Rotary Axis - DDM (1200rpm)
Tilting Axis - Tandem drive by spur gear and worm gear

DTF-280P



Machine base supplied by buyer

Rotary Axis – DDM (1500rpm)
Tilting Axis – DDM (150rpm)

DTF-410H



Rotary Axis – DDM (100rpm)
Tilting Axis – DDM (60rpm)