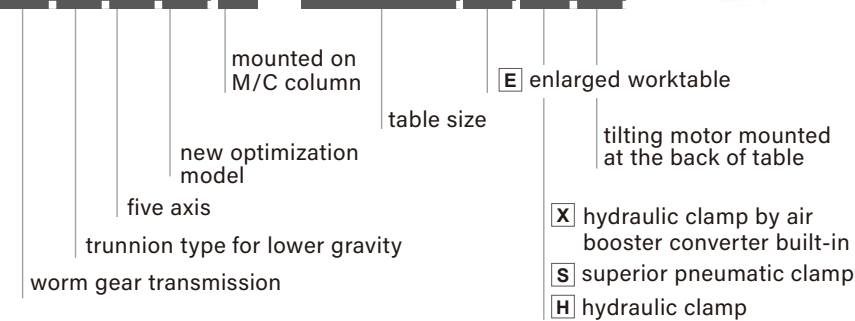


CNC Trunnion Tilting Rotary Table

GTFA(I)-650EHB



- Worktable diameter Ø500, Ø650, Ø720.
- The hydraulic brake equipped with radial and axial bearings.(P.18)
- Full gear depth transmitted by dual lead worm drive, resulting in higher efficiency and lower backlash.(P.20)
- Built-in air-booster for appointed models.

SPECIFICATIONS

MODEL		Unit	GTFAE-500XB		GTFA-650EHB		GTFAI-650EHB GTFAI-720EHB	
Worktable diameter		mm / inch	Ø500 / Ø19.69		Ø650x520W / Ø26x20W		Ø650x520W / Ø26x20W Ø720 / Ø28	
Center bore diameter		mm / inch	Ø70H7 / Ø2.76H7		Ø70H7 / Ø2.76H7		Ø70H7 / Ø2.76H7	
Height of table (horizontal)		mm / inch	460 / 18.11		295 / 12		250 / 9.8	
Height of center (vertical)		mm / inch	460 / 18.11		345 / 14		300 / 11.8	
Width of T-slot		mm / inch	14H7 / 0.55H7		18H7 / 0.7H7		18H7 / 0.7H7	
Clamping method /pressure		MPa / psi	*P: 0.6~0.7 / 87~101.5		*H:4 / 580		*H:4 / 580	
Servo motor spec					refer to page 78			
Transmission ratio			R	T	R	T	R	T
			1:120	1:180	1:72	1:120	1:72	1:120
Max. table speed / at specified servo motor speed		min ⁻¹	16.6 / 2000	11.1 / 2000	25 / 1800	25 / 3000	25 / 1800	25 / 3000
Clamping torque		N.m / ft. lbs.	2500/1843.75	3000/2212.5	2000/1475	3400/2508	2000/1475	3400/2508
Allowable loading capacity	In Horizontal 	kg / lb	500 / 1102		300 / 660		300 / 660	
	In Tilting (0~90°) 	kg / lb	500 / 1102		300 / 660		300 / 660	
Allowable unbalancing work moment	WxL 	N.m / ft. lbs.	300 / 221.0		300 / 221		300 / 221	
FxL When table clamped	F 	N / lbs	30000 / 6744		30000 / 6744		30000 / 6744	
	FxL 	N.m / ft. lbs.	2500 / 1844		2000 / 1475		2000 / 1475	
	FxL 	N.m / ft. lbs.	3000 / 2213		3400 / 2508		3400 / 2508	
Allowable loading inertia	($\frac{W.D^2}{8}$) 	kg.m ²	9.6		9.4		9.4	
Resolution		deg.	0.001		0.001		0.001	
Indexing accuracy		sec	15	60	15	60	15	60
Repeatability		sec	6	8	6	8	6	8
Tilting angle range		deg.	-120 ~ +30		-90 ~ +110		-90 ~ +110	
Net weight (servo motor excluded)		kg / lb	1270 / 2794		1228		1178	
Allowable cutting torque		N.m / ft. lbs.	1700 / 1254		1700 / 1254		1700 / 1254	
Allowable Max. rotary joint quantity		Port	6		6		6	

Note: 1. P: Pneumatic H:Hydraulic R: Rotary Axis T: Tilt Axis
2. For the motor model selection of GTFAS125S, please contact us.
3. FxL When table clamped is a reference data, the users should consider proper safety factor or contact detron for details.

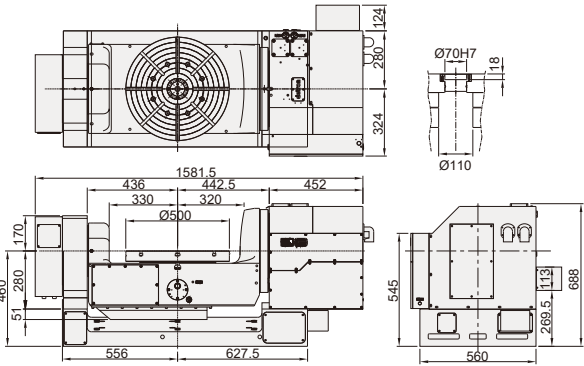
DIMENSIONAL DRAWINGS

Unit : mm

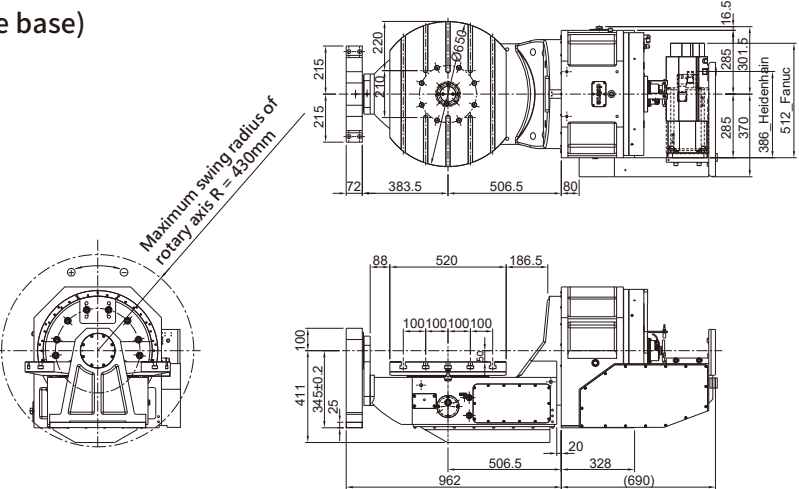
GTFAE-500XB



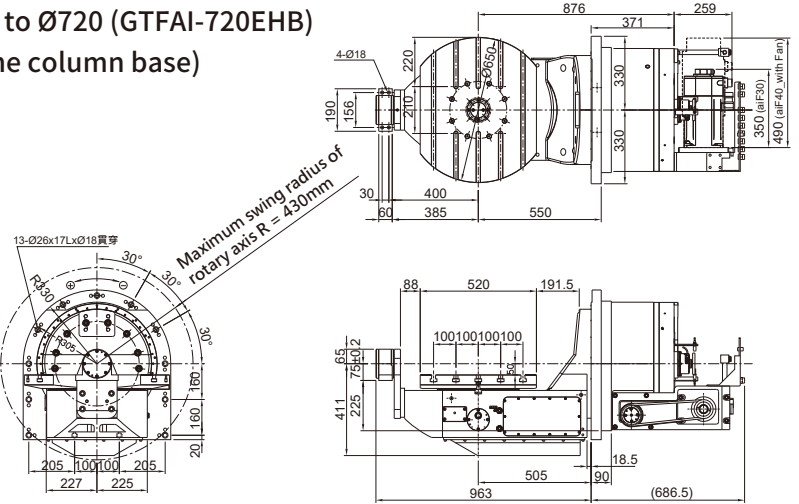
With 2 sets of built-in air-booster



GTFA-650EHB (Tilting axis fixed on machine base)



GTFAI-650EHB Worktable can be enlarged to Ø720 (GTFAI-720EHB)
(Tilting axis fixed on machine column base)



Note: 1. The length of servo guard may vary with servo motor type. (the metal sheet dimensions shown at above are based on Fanuc motor)
2. Allowable wheel torque at table speed of 1 min⁻¹.
3. According to application engineering, optical encoder is recommended for tilting axis.
4. Customized table Ø630mm and dual drive at tilting axis are available.