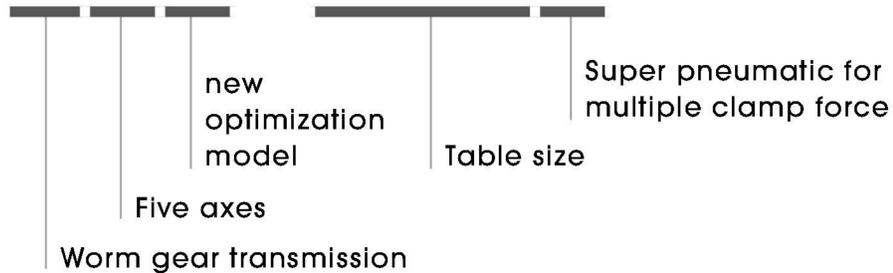


## CNC Tilting Rotary Table

GFA-101S	GFA-125S
GFA-170S	GFA-210S



### G F A - 1 2 5 S



- Worktable diameter Ø100, Ø125, Ø170, Ø210.
- Exclusive **patented dual pneumatic piston braking** system.
- Enlarged the **high precision cross roller bearing**.
- Transmitted by dual lead worm with high efficiency and full depth gear teeth.

### SPECIFICATIONS

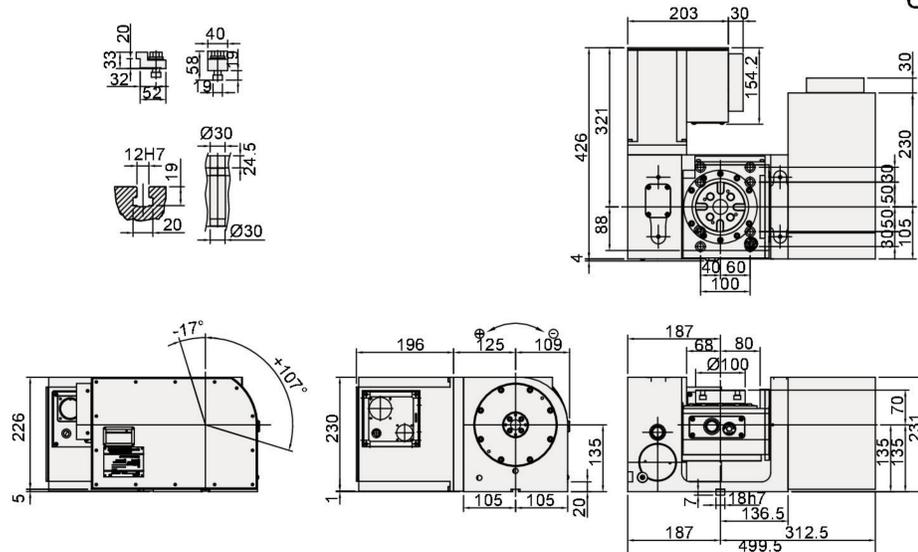
MODEL	Unit	GFA-101S	GFA-125S	GFA-170S	GFA-210S				
Worktable diameter	mm / inch	Ø100 / Ø3.94	Ø125 / Ø4.92	Ø170 / Ø6.69	Ø210 / Ø8.27				
Center bore diameter	mm / inch	Ø30H7 / Ø1.18H7	Ø30H7 / Ø1.18H7	Ø40H7 / Ø1.57H7	Ø65H7 / Ø2.56H7				
Height of table (horizontal)	mm / inch	205 / 8.07	224.5 / 8.84	260 / 10.24	280 / 11.02				
Height of center (vertical)	mm / inch	135 / 5.31	160 / 6.30	190 / 7.48	210 / 8.27				
Width of T-slot	mm / inch	12H7 / 0.47H7	12H7 / 0.47H7	12H7 / 0.47H7	12H7 / 0.47H7				
Width of guide block	mm / inch	18 / 0.71	18 / 0.71	18 / 0.71	18 / 0.71				
Clamping method /pressure	MPa / psi	pneumatic 0.55 ~ 0.7 / 79.8 ~ 101.5	pneumatic 0.55 ~ 0.7 / 79.8 ~ 101.5	pneumatic 0.55 ~ 0.7 / 79.8 ~ 101.5	pneumatic 0.55 ~ 0.7 / 79.8 ~ 101.5				
Servo motor spec	refer to page 69								
Transmission ratio		R	T	R	T	R	T	R	T
		1:75	1:120	1:90	1:90	1:90	1:90	1:90	1:90
Max. table speed	min <sup>-1</sup>	33.3	16.6	44.4	44.4	33.3	22.2	33.3	22.2
Allowable loading capacity	In Horizontal	kg / lb	35 / 77	50 / 110	75 / 165	100 / 220			
	In Tilting (0~90°)	kg / lb	20 / 44	35 / 77	50 / 110	70 / 154			
Allowable unblancing work moment	WxL	Nm /ft. lbs.	24 / 17.69	24 / 17.69	40 / 29.5	62 / 45.7			
Allowable load (when table clamped)	F	N / lbs	4000 / 897.60	4000 / 897.60	7000 / 1570.8	14000 / 3141.6			
	FxL	Nm /ft. lbs.	200 / 147.4	140 / 103.2	300 / 221	400 / 294.7			
	FxL	Nm /ft. lbs.	250 / 184.25	300 / 221.1	400 / 294.7	600 / 442			
Allowable loading inertia	$(\frac{W.D^2}{8})$	kg.m <sup>2</sup>	0.044	0.1	0.28	0.55			
Resolution	deg.	0.001	0.001	0.001	0.001				
Indexing accuracy	sec	40" 60"	40" 60"	20" 60"	20" 60"				
Repeatability	sec	6" 8"	6" 8"	6" 8"	6" 8"				
Tilting angle range	deg.	-17 ~ +107	-30 ~ +120	-30 ~ +120	-30 ~ +120				
Net weight (servo motor excluded)	kg / lb	90 / 198	120 / 264	180 / 396	230 / 490.6				
Allowable cutting torque	Nm /ft. lbs.	85 / 62.65	85 / 62.65	200 / 147.4	250 / 184.25				
Allowable Max. rotary joint quantity	Port	-	3	4	4				

Note: R: Rotary Axis T: Tilt Axis

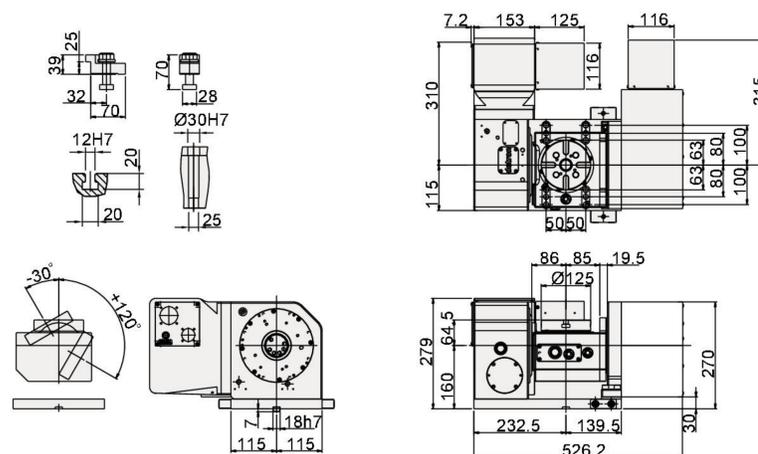
# DIMENSIONAL DRAWINGS

Unit : mm

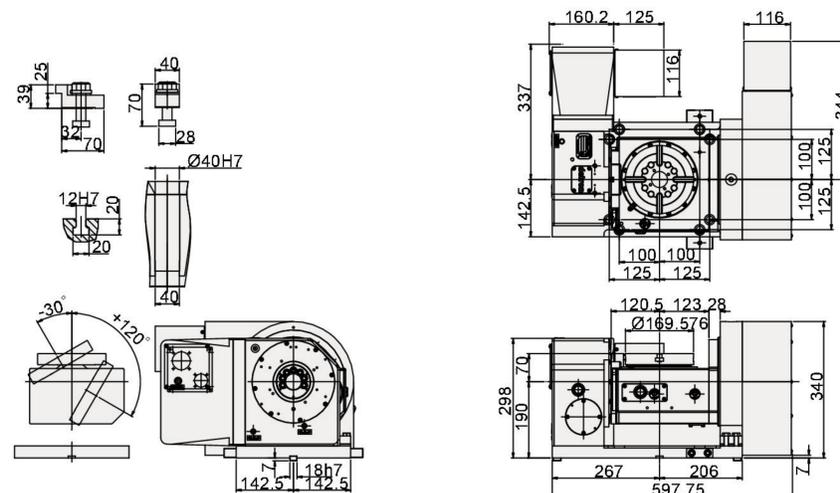
## GFA-101S



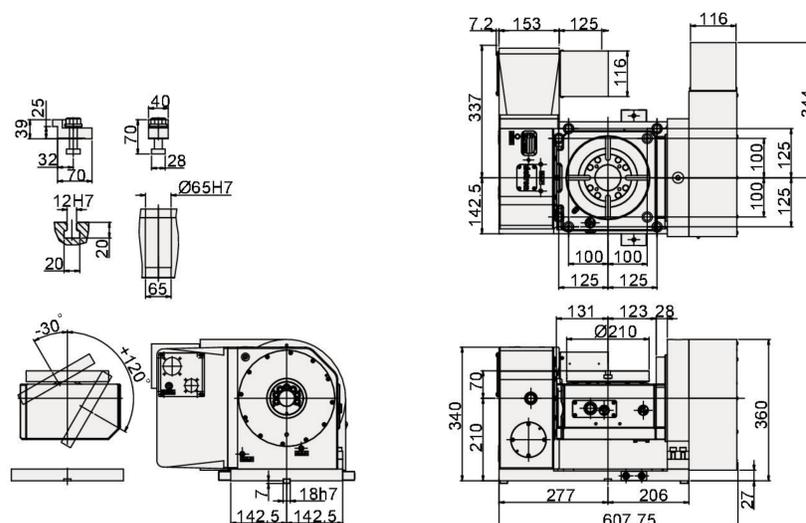
## GFA-125S



## GFA-170S



## GFA-210S



Note: 1. The length of servo guard may vary with servo motor type. (the metal sheet dimensions shown above are based on Fanuc motor)  
 2. Allowable wheel torque at table speed of  $1 \text{ min}^{-1}$ .  
 3. According to application engineering, optical encoder is recommended for tilting axis.