

CNC Tilting Rotary Tables
Min. indexing angle -0.001°

FAR Series Dual-axis dual-arm type (Powerful Pneumatic Brake) FAR(s)-125/125B/170A/170/170B

4
FEATURES



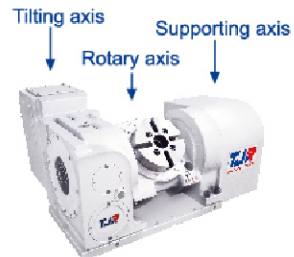
1 Both the tilting axis and rotary axis use radial & axial bearings.

2 Because the tilting axis normally needs to bear heavy load, Japanese-made worm and worm gear are employed to improve wear resistance and precision of tilting axis. **standard component**
(It's wear life is 2.6 times longer than aluminum bronze PBC3.)

3 Anti-wear alloy steel worm gear is optional

4 A hydraulic brake for tilting axis is optional.

Rotary axis Dual-lead Alloy steel worm gear (Optional)



▲ FAR(s)-125



▲ FAR(s)-170A(compact type)



▲ FAR(s)-170



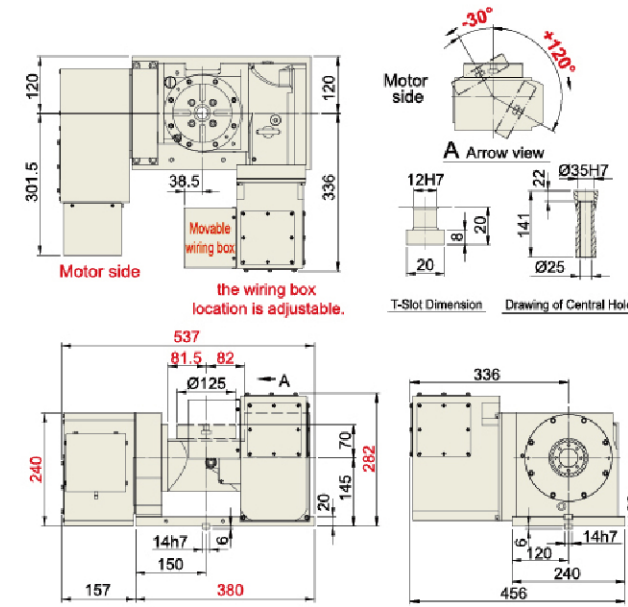
▲ Workpiece sample - 5 axis simultaneous contouring

Item / Model	Unit	FAR(s)-125/125B		FAR(s)-170A(Compact type)		FAR(s)-170(Standard type)/FAR(s)-170B(Back side motor type)	
Table Diameter	mm	Ø125		Ø170		Ø170	
Diameter of Table Central Hole	mm	Ø 35H7		Ø67		Ø67	
Inner Diameter of Mandrel Sleeve	mm	-		Ø40H7		Ø40H7	
Diameter of Center Through Hole	mm	Ø25		Ø40		Ø40	
Table Height (Horizontal)	mm	215		245		270	
Table T-slot Width	mm	12H7		12H7		12H7	
Guide Block Width	mm	14h7		18h7		18h7	
Axis	-	Rotation		Rotation		Rotation	
		Tilt $(-30^\circ \sim +120^\circ)$		Tilt $\pm 100^\circ$		Tilt $\pm 100^\circ$	
Min. Increment	deg.	0.001		0.001		0.001	
Indexing Precision (while tilt $0^\circ \sim +90^\circ$)	sec.	40		20		20	
Repeatability	sec.	6		6		6	
Clamping System (Pneumatic)	kgf/cm ²	6		6		6	
Clamping Torque	kgf·m	13		25		31	
Servo Motor Model	FANUC	Taper/Straight shaft	aiS4 / β is4	aiF4 / β is8	aiS4 / β is4	aiF4 / β is8	aiF8 / aiS12 / β is12
	MITSUBISHI	Taper/Straight shaft	HG/HF-75 / 105	HG/HF-54 / 104	HG/HF-75 / 105	HG/HF-54 / 104	HG/HF-104
Speed Reduction Ratio	-	1 : 60		1 : 72		1 : 90	
		1 : 90		1:120 / SIEMENS 1:90		1 : 90	
Max. Rotation Rate of Table (Calculate with Fanuc or Motor)	r.p.m	44.4 *(33.3)		33.3 *(33.3)		33.3 *(33.3)	
		44.4 *(33.3)		25 *(16.6)		33.3 *(16.6)	
Allowable Inertia Load Capacity (Horizontal)	kg.cm.sec ²	0.97		2.2		2.7	
Allowable Workpiece Load	0° Horizontal	50		60		75	
	0°~90° Tilt	35		40		50	
Allowable Thrust	F	400		600		750	
Load (with Rotary Table Clamping)	FxL	31		31		31	
	FxL	13		25		31	
Driving Torque (Rotary axis)	kgf·m	9 *(3.7)		18 *(14.6)		18 *(14.6)	
Net Weight (servo motor excluded)	kg	97 / -		125		153	

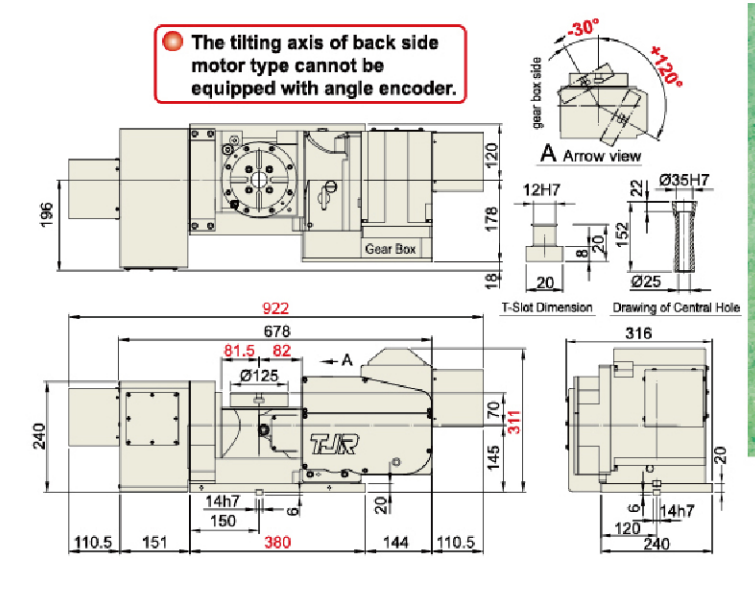
★*() Alloy Steel worm & gear series ★ Dual-lead alloy steel worm & gear for the rotary axis is optional.

★*1. Indexing precision can be better after installing an additional angle encoder. Please refer to the table on page 70 for more details.

FAR(s)-125(Standard type)

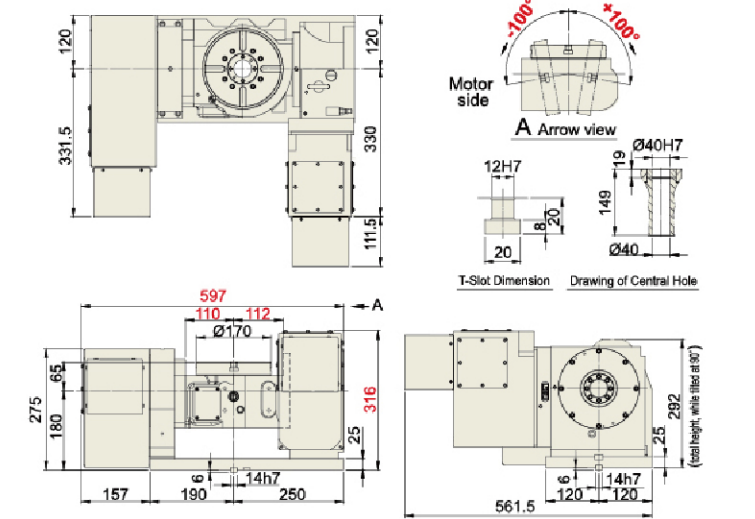


FAR(s)-125B(Back side motor type)

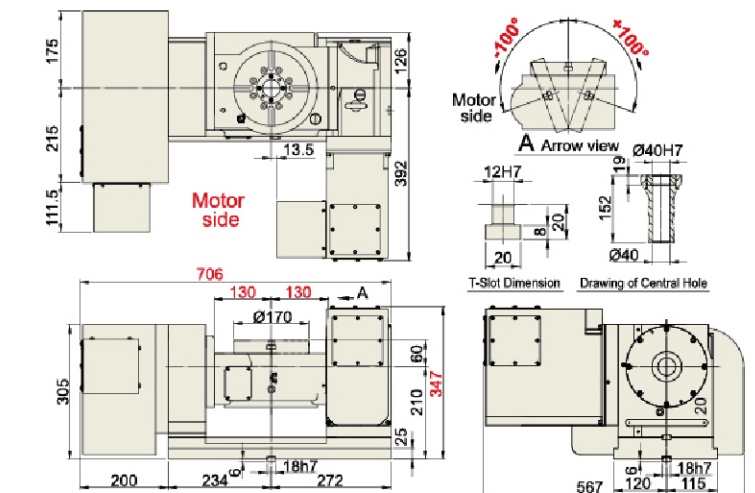


The tilting axis of back side motor type cannot be equipped with angle encoder.

FAR(s)-170A(Compact type)



FAR(s)-170(Standard type)



★ In accordance with the foreign trade control ordinance, permission of the ministry of economy, trade and industry is required when exporting dual-axis products overseas.