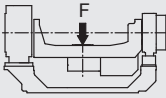
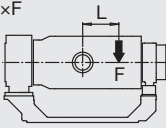
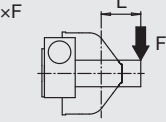
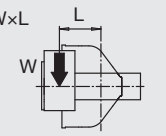


Specifications

Specifications		RTG500			
		Rotating axis		Tilting axis	
Tilting angle	deg	-30 to +120			
Table diameter	mm	φ 120			
Table pilot bore diameter*1	mm	φ 90 ^{+0.035} ₀			
Center height at tilted axis +90°	mm	350			
Tabletop height at 0° tilted axis	mm	280			
Guide block width	mm	14 ⁰ _{-0.018}			
Total gear ratio		1/72		1/72	
Motor shaft equivalent inertia *1 *2 *3	× 10 ⁻⁴ kg・m ²	1.41 (1.43)		6.22 (6.97)	
Motor used (FANUC ・ BROTHER)		α iF4/5000-B (A06B-2223-B300)	R2AAB8100F～	α iS8/4000-B (A06B-2235-B300)	R2AA13180H～
Maximum table rotational speed	min ⁻¹	69		55	48
Indexing accuracy	arc.sec	±15		±30	
Repeatability	arc.sec	8		8	
Net weight	kg	248			
Net weight (when joints are rotary joint is installed)	kg	270			
Allowable payload	kg	100			
Maximum jig work diameter	mm	500			
Allowable workpiece inertia	kg・m ²	2.3			
Maximum radial load		N	23000		
Allowable continuous holding torque		N・m	259	254	—
Allowable maximum holding torque*4		N・m	415	318	—
Allowable continuous holding torque		N・m	—	—	518
Allowable maximum holding torque*4		N・m	—	—	835
Internal eccentric load torque*5		N・m	0		112
Lubrication method		Oil bath (and grease for the support unit)			
Oil type/quantity		Mobile SHC629 / 0.7L		Mobile SHC629 / 1.4L	
Rotary joint (number of ports)		12+1			

*1 Values when a rotary joint is not installed.

*2 Values in parentheses () are when a rotary joint is installed

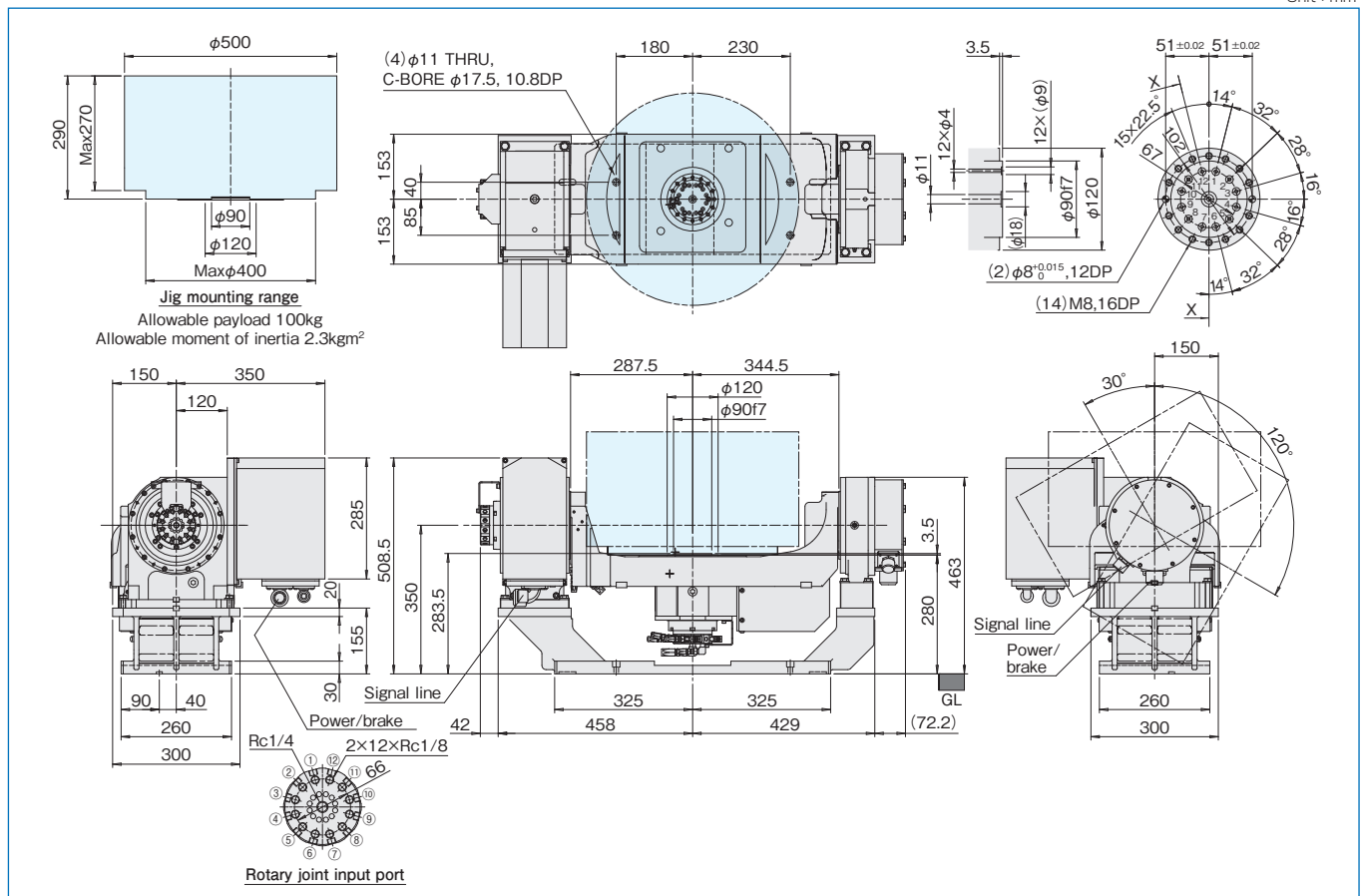
*3 The specified motor shaft equivalent inertia does not include the inertia of the motor shaft.

*4 Maximum holding torque shall be a maximum of 30 seconds at a 40% duty cycle.

*5 This is the value of the unbalanced torque of the rotating shaft acting on the tilt axis at a tilt angle of +90°. (0.112 m x 102 kg x 9.8)

Dimensions

Unit : mm



* Specifications and dimensions are subject to change without notice. Consult Sankyo sales before ordering.

Precision Rating

Measurement		Method	RTG500
Parallelism between table top and bottom surface of base			0.02mm
Runout of table top			0.01mm
Runout of table reference bore			0.01mm
Parallelism between tilt axis center line and bottom surface of base			0.02mm
The degree at which the rotation axis intersects the tilt axis			± 0.01 mm
Indexing accuracy	Rotary axis		± 15 arc.sec
	Tilt axis		± 30 arc.sec
Repeatability	Rotary axis		8arc.sec
	Tilt axis		8arc.sec