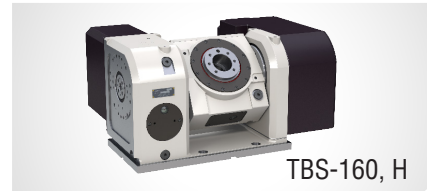


TBS-130,H / 160,H / 250


NEW! TILTING BALL DRIVE SYSTEM ROTARY TABLES

KOMA Precision, Inc. introduces a new line of high accuracy, high rigidity, energy saving and zero maintenance rotary tables from Tsudakoma. The TBS Series tilt rotary tables are built using the new ball drive system featuring advantages like zero backlash, improved cycle times, energy conservation and a lifetime adjustment-free transmission system.



Specifications

Dimensions = mm

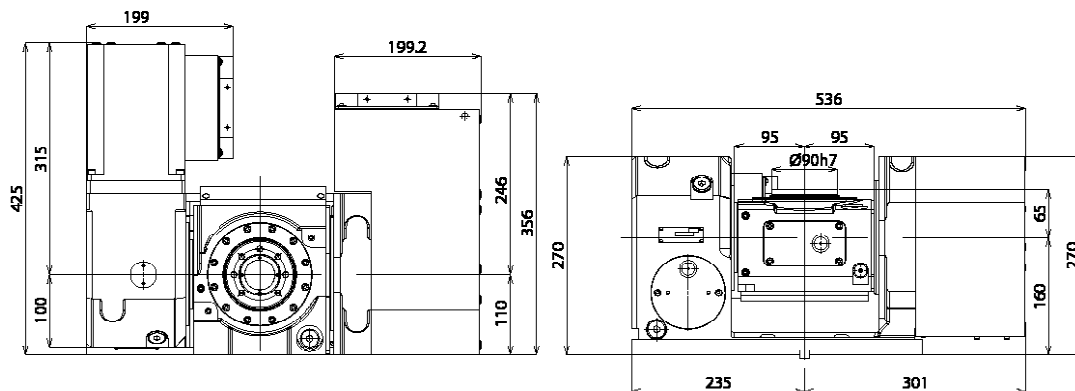
Model		TBS-130,H	TBS-160,H	TBS-250		
Tilt Range		-30° ~ +110°	-30° ~ +110°	-30° ~ +110°		
Spindle outer diameter		90h7	100h7	140H7		
Table diameter (optional)		(135)	(160 or 200)	(250)		
Table height at 0° position		225 (250 w/ faceplate)	270 (300 w/ faceplate)	290 (320 w/ faceplate)		
Center height at 90° position		160	200	235		
Center bore	Nose Diameter (w/faceplate)	55H7 (40H7)	55H7 (50H7)	80H7 (75H7)		
	Thru Diameter	40	40	50		
Servo motor*	Rotary	Tilt	Rotary	Tilt	Rotary	Tilt
	Alpha 2i	Alpha 2i	Alpha 2i	Alpha 4i	Alpa 8i	
Maximum motor speed	rpm	5,000	5,000	5,000	5,000	-
Speed reduction ratio		1/48	1/60	1/60	1/60	1/45 1/60
Maximum table speed	rpm	104.2	83.3	83.3	83.3	88.8 66.6
Inertia converted into motor shaft	x 10 ⁻³ kg·m ²	.074	.072	.17	.18	.465
Clamp system		Pneumatic				
Holding torque @72psi	Nm (ft. lbs.)	700 (516)			1,000 (737)	
Indexing accuracy	arc sec.	±10				
Indexing repeatability	arc sec.	±2				
Tilting accuracy	arc sec.	±17.5			±20	
Tilting repeatability	arc sec.	±2				
Net Weight	kg (lbs.)	125 (276)	160 (353)	280 (617)		
Allowable work inertia	kg·m ²	.08	.19	1.05		
Allowable work weight kg (lbs)	0° tilt angle	35 (77)	60 (132)	135 (298)		
	0° ~ 90° tilt angle	20 (44)	40 (88)	85 (187)		
Allowable work moment	Nm (ft. lbs.)	61.1	59.6	186.7 (137)		
Allowable load when table clamped	N (lbf)	3,920 (878)	10,800	14,400 (64,054)		
	 Nm (ft. lbs.)	700 (516)	700 (516)	1,000 (737)		
	Nm (ft. lbs.)	700 (516)	700 (516)	1,000 (737)		

* Other motors & RPM available • ** Booster optional • Specifications subject to change without notice

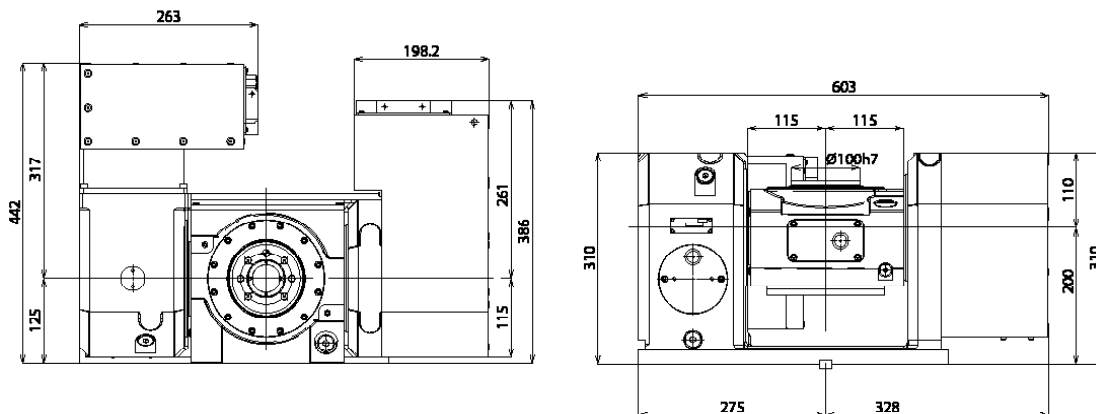
Dimensions

Drawings not to scale • Dimensions = mm

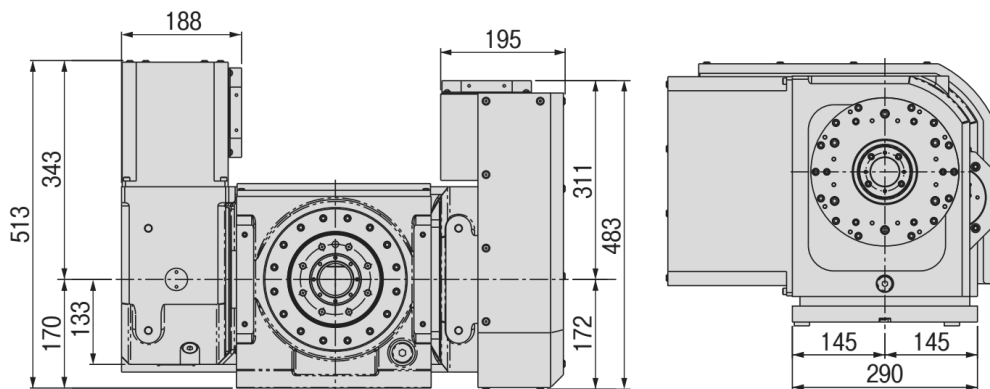
TBS-130,H



TBS-160,H



TBS-250



Options & Accessories

TPC NC Controller	p.68
Chucks	p.79
Tailstock	p.81
Support Spindle	p.81
Face Plate	p.83
Encoder / Scale	p.84
Pull Stud Device	p.85
Rotary Joint	p.85
PVC or Steel Cables	p.86