

Polygon Turning Machines

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Model : TPT - 2S



This is a very popular model, This covers most of the requirement of general engineering industry. This is a very versatile model with both X and Z axes driven by servomotors and controlled by a sophisticated motion controller. The motion controller enables continues interpolation of the X and Z axes. This Model has a fixed spindle speed ratio of 1:2.

Specification

Model : TPT - 5S



This is a sophisticated model, this model is very useful in machining polar arrayed features on components like Ratchets, Splines and serrations. X, Y and Z axes are driven by servo motors and controlled by a sophisticated motion controller. The Work Spindle and Tool Spindles are driven by a sophisticated motion controller with Electronic Gear Box.

Description ↓ Models →	TPT-2S	TPT-5S
Work Holding and Operation	Collet Chuck 42/60 mm-Hydraulic	Collet Chuck 42 mm-Hydraulic
Maximum Chucking size	Ø42mm x 580 mm long	Ø42 mm x 580 mm long
Maximum Machine Length	80 mm Max	180 mm Max
Maximum Size of Polygon	A/F 85/110 mm	A/F 40 mm
Spindle Speed Ratio	1:2 Std Mechanical	1:1 -1:99 Electronic
Work Spindle Nose Type and Size	DIN A2-5 & A2-6	DIN A2-5
Main Spindle Motor	TEFC 2.2 KW 1440 RPM	-
Main Spindle Drive	Mitsubishi Variable Freq Drive	-
Work Spindle Motor	-	4.78 NM / 2,000 RPM
Tool Spindle Motor	-	4.78 NM / 2,000 RPM
Z Axis Stroke-Drive	100 mm -Servomotor	225 mm - Servomotor
X Axis Stroke-Drive	140 mm - Servomotor	180 mm - Servomotor
Y Axis Stroke-Drive	-	50 mm - Servomotor
Pos Accuracy and Repeatability	10 Microns	10 Microns
Feed Rate	0.01-0.5 mm Per Rev	0.01-0.5mm Per Rev
Rapid Travel Rate	10 Mtrs per Min	10 Mtrs per Min
Centralized Lubrication	0.09 kW	0.09 kW
Coolant Pump	0.10kW	0.10 kW
Control Voltage	220 VAC / 24 VDC	220 VAC / 24 VDC
Main Power Supply	3 Phase, 415 VAC±10% 50 Hz	3 Phase, 415 VAC±10% 50 Hz
Total Connected Load	5.15kW (7HP)	5.95 kW (8HP)
Floor Area W x L x H	1.8 MW x 1.6 M L x 1.7 M H	1.8 M W x 2 M L x 2.1 M H
Nett Weight	1600 Kgs	2200 Kgs
Gross Weight	1850 Kgs	2450 Kgs