



FIVE AXES TOOL
& CUTTER GRINDING MACHINE

TXL Rapid Grind



About TXL

Five axis CNC Tool & Cutter Grinding machine combines high capacity grinding with high level of accuracy. Generally conceived & executed to match any imported machine.

Suitable for manufacturing of standard & complex tools such as EndMill, Drills & Special Form Cutters. User friendly menu driven software modules for easy programming.

Salient Features

- Direct driven Grinding Spindle with variable speed & continuous power of 19kw.
- Rigid high performance Linear guideway (With Rollers) from SCHNEEBERGER Germany for Linear Axis
- High Precision ballscrews from Tsubaki, Japan for 'X' , 'Y' and 'Z' axis .
- Rotary Axis with precision wheel & worm from OTT Germany.
- Axes movements by High Performance Siemens servo motors.



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Capacity

Type of Bed	Cast Iron
Max Work piece Diameter	230 mm
Max Work piece Length	300 mm
Maximum Tool Weight	20 kgs

Main Spindle

Spindle Bore Taper	Manual HSK
Spindle Speed	9000 rpm
Spindle Power (Conti/30 mins)	19/38 kw

X Axis

Axis Travel	600 mm
Ball Screw Dia x Pitch	40 x 10 mm
Axis Motor Torque	6 Nm
Rapid Traverse Rate	10 m/min

Y Axis

Axis Travel	270 mm
Ball Screw Dia x Pitch	40 x 10 mm
Axis Motor Torque	12 Nm
Rapid Traverse Rate	5 m/min

Z Axis

Axis Travel	600 mm
Ball Screw Dia x Pitch	40 x 10 mm
Axis Motor Torque	12 Nm
Rapid Traverse Rate	10 m/min

A Axis

Axis Travel	360 deg
Axis Motor Torque	6 Nm
Maximum RPM	30 rpm

B Axis

Axis Travel	-20 to 330 deg
Axis Motor Torque	8 Nm
Maximum RPM	10 rpm

Accuracy (As per VDI DGQ 3441)

Positioning Uncertainty (P) X/Y/Z	0.005 mm
Repeatability (Ps Medium) X/Y/Z	0.003 mm

Other Specification

CNC System (Controls)	Siemens 840D SL
Total Connected Load	35 KVA
Machine Length	2600 mm
Machine Depth	1800 mm
Machine Height	2900 mm

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