

# HIGH PERFORMANCE HEAVY DUTY CNC TURNMILL CENTER

## TXL - 7030



### About TXL

TXL family of Turning Centre combines high capacity metal removal with high level of accuracy, rigidity and stability. Generally conceived and executed to match any imported machines.

45° slant, Torque tube structure poly concrete filled mehanite casting with generously dimensioned hardened ground guideways ensures the best dimensional accuracy and surface finish in normal and hard part turning. The machine is suitably built for hard part turning also.

### Salient Features

- A<sub>2</sub>15" Main Spindle with bearings from FAG, Germany filled with poly kluber grease for life.
- ZARF Axis bearings from INA, Germany for Axis rigidity and high level of Accuracy.
- 'Co' and "C1", High Precision ballscrews from Tsubaki, Japan for 'X' and 'Z' axis .
- Main Spindle drive with High Performance ZF Gear Box and poly 'V' belt for vibration free Spindle running.
- Fast indexing large 320 size DUPLOMATIC SERVO LIVE TOOL TURRET with VDI-60 DISC
- 'X' and 'Z' axis movements by High Performance Siemens 1FT6 motors with encoder on the ballscrews.

# CNC TURNMILL CENTER SPECIFICATION TXL-7030 TURNMILL



## Capacity

Type of Bed / Type of guideway	Slanted 45° / Box
Swing Over bed	900 mm
Max Turning Diameter	900 mm
Max Turning Diameter Between Center	700 mm
Max Turning Length	3200 mm
Max Cutting Force	1000 kgf
Chuck Size	630 mm

## Main Spindle

Spindle Nose - DIN 55026	A2-15"
Spindle Diameter	380 mm
Spindle Bore Taper	Metric 160
Hole Through Spindle	145 mm
Spindle Speed Range	20 - 1500 rpm
Spindle Power (Conti/30 mins)	39/58 kw
Max Torque on Spindle	4000 / 4800 Nm
Spindle dia at Front Bearing	200 mm (P4)

## C' Axis

C' Axis Indexing	0.001° deg
C' Axis Maximum Speed	50 rpm
C' Axis Torque on Spindle	1000 Nm

## X Axis

Axis Travel	510 mm
Ball Screw Dia x Pitch	40 x 10 mm
Axis Motor Torque	27 Nm
Rapid Traverse Rate	12 m/min

## Z Axis

Axis Travel	3200 mm
Ball Screw Dia x Pitch	50 x 10 mm
Axis Motor Torque	27 Nm
Rapid Traverse Rate	12 m/min

## Turret

Turret Type (Servo)	VDI 50 / VDI 60
No. of Stations	12 / 8
Tool Shank Size for turning	32 x 32 mm
Boring Bar Size	Ø60 mm
Turret Indexing Time for 30° / 45°	0.58/0.74 secs

## Live Tool

Milling Motor Power	13 Kw
Milling Spindle Torque	130 Nm
Max Speed of Milling Spindle	3200 rpm
Collet Size	Ø34 (ER-50)
No. of Live Tools	6 nos
Max Milling Dia	40 mm
Max Drilling Dia	30mm
Max Tapping Dia	M30

## Tail Stock - Servo Axis

Tailstock Quill Diameter	180 mm
Tailstock Quill Stroke	150 mm
Tailstock Quill Thrust	3000 kgf
Taper in built-in Rotary Spindle	MT6
Tail Stock Servo Travel ( Programmable)	3100 mm
Max Weight of Workpiece	3000 kgs

## Accuracy (As per VDI DGQ 3441)

Positioning Uncertainty (P) X/Z	0.010 / 0.020 mm
Repeatability (Ps Medium) X/Z	0.005 / 0.008 mm

## Other Specification

CNC System (Controls)	Siemens 840D SL
Total Connected Load	75 KVA
Machine Length	7500 mm
Machine Width	2800 mm
Machine Height	2900 mm
Machine Weight	25000 kgs.
Noise Level of Machine	65 db

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