

MACHTOOL — TCL - 200

High - Precision CNC Turning Center

Salient Features

Slant - Bed CNC Turning Center specially designed for high accuracy, medium and large sized components

Suitable for forged to finish operations in mass production of components like medium and large sized gear blanks, valve bodies, flanges and shafts upto 400 mm length

A2-6 Spindle with 5.5 kw / 7.5 kw spindle power

Heavy duty eight station Tool Turret

Rapid Traverse Rate of 15 meters / min for both axes

Heavy duty precision grade Linear Motion Guide-ways for both axes



IDEAL FOR A WIDE VARIETY OF PRECISION TURNING APPLICATION

Specifications

Capacity	
Swing over bed	: 400 mm
Swing over saddle	: 400 mm
Admit between centres	: 400 mm
Maximum turning diameter	: 300 mm
Spindle	
Spindle type	: Cartridge type
Spindle nose	: A2-6
Spindle taper	: MT-6
Hole through spindle	: 52mm
Spindle bearings	: Four angular contact bearings, RHP make, set of two on front (7218) and set of two on rear (7216)
Spindle lubrication	: Grease packed for life
Spindle RPM	: 30-3000 rpm (Higher spindle RPM is optional)
CNC System	
	: FANUC 0i-TB Mate with Beeta 8i, Beeta 8i and Beeta 6i spindle (Siemens 802D or any other CNC system is optional)
Spindle motor and drive	: Fanuc - 5.5/7.5 kw spindle drive and motor
Tail - Stock	
Tail-stock stroke	: 275 mm
Quill stroke	: 100 mm
Tail-stock quill diameter	: 75 mm
Quill taper	: MT - 5

Slides	
Slides	: with LM Guide-ways
X axis travel	: 175 mm (Radial)
Z axis travel	: 450 mm (From spindle face)
X axis ball screw	: 32 mm, Dia x 10 mm Pitch (PMI / HIWIN) C-3 class
Z axis ball screw	: 32 mm, Dia x 10 mm Pitch (PMI / HIWIN) C-3 class
X axis motor	: AC Servo, 8 Nm / 3000 rpm
Z axis motor	: AC Servo 8 Nm / 3000 rpm
Rapid Traverse	: 15 meters / min
Tooling Arrangement	: Eight position Bi - Directional Turret
Standard shank size	: 25 mm x 25 mm
Recommended Chuck Size	: 200 mm Dia. Power Chuck (Closed or Hollow type along with suitable Hydraulic Power-Pack)

Bed	
Slant angle	: Slant Bed - 45 degree
Bed width	: 400 mm
Guide-ways	: Heavy duty precision grade Linear Motion Guide-ways

Over-all Dimensions	
Length	: 2100 mm + 1500 mm with Chip Conveyor
Width	: 1500 mm
Height	: 1700 mm
Gross weight	: 2800 kg (appx.)

Specifications are subject to change without prior notice.

Standard Accessories

- ▶ Coolant System
- ▶ Centralized Lubrication System
- ▶ Air Circulating Blowers for Electrical Panel
- ▶ Machine Lamp
- ▶ Chip Pan
- ▶ Fully Enclosed Chip-Guard
- ▶ Operation and Maintenance Manual (1 set)
- ▶ 200 mm closed Chuck with suitable closed Hydraulic Cylinder and Power Pack
- ▶ Electronic Hand Wheel
- ▶ Three Boring Holders & One Face grooving holder

Optional Accessories

- ▶ Sleeves of Various Sizes
- ▶ Extra Tool Holders
- ▶ Cabinet Cooler
- ▶ 3 Phase Voltage Stabilizer
- ▶ Gear Box for Spindle
- ▶ Chip Conveyor
- ▶ Extra Chip Pan
- ▶ Hollow Chuck / Hollow Hydraulic Cylinder
/ Collet Chuck, any other Holding Fixture.



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