

JOBBER X_L



The Jobber XL is a precision, cost effective CNC Turning Machine ideal for job shops and ancillaries. Unlike retrofit CNC machines, the Jobber is a full-fledged CNC machine designed and built to take advantage of CNC features like high rapid rates, cutting parameters, constant surface speed, etc. The machine elements like ball screws, bearings, CNC systems and drives have been chosen from the best available in the world. The machine is put together by a dedicated team of skilled craftsmen, under expert technical guidance.

BED



The bed is a fine grain grade 25 cast iron casting. It is well ribbed to provide rigidity and is thermally seasoned. The bed is designed for easy chip flow and removal.

AXES

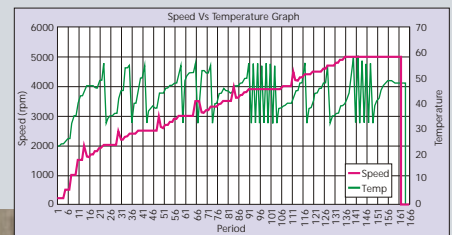


X and Z-axes feature precision ball screws supported at both ends. The guide ways are well spaced to ensure stability, fully protected and are made of hardened and ground box way strips. The mating way is bonded with turcite for its superior wear and friction characteristics. Automatic metered lubrication is provided to all guide ways and ball screws.

SPINDLE



The spindle is assembled and tested in a controlled clean room environment. The spindle uses super precision angular contact bearings in front and rear. The bearings are grease lubricated for life.



Computerised spindle stabilization

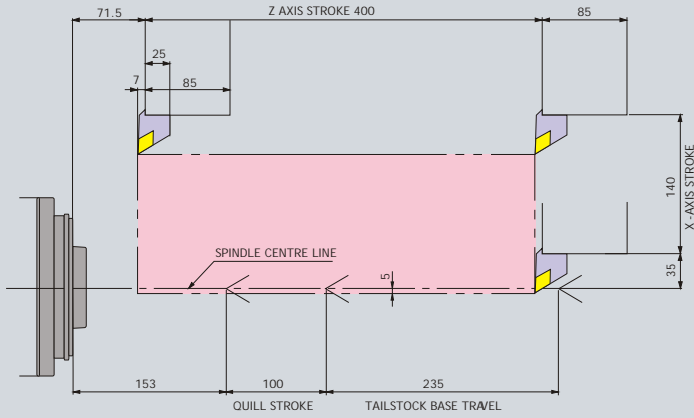
TAILSTOCK

The tailstock is supported on V and flat guide ways and houses a live center.

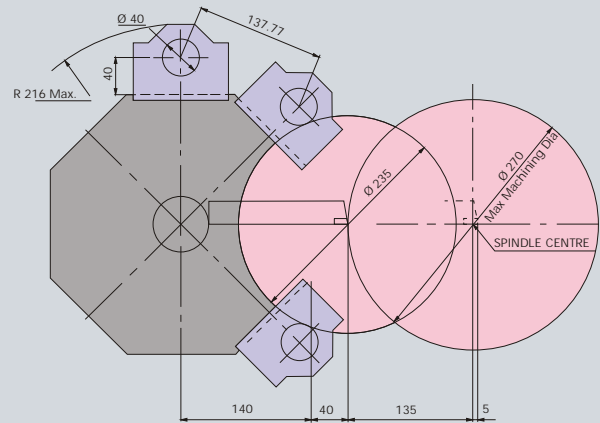


Ball bar testing

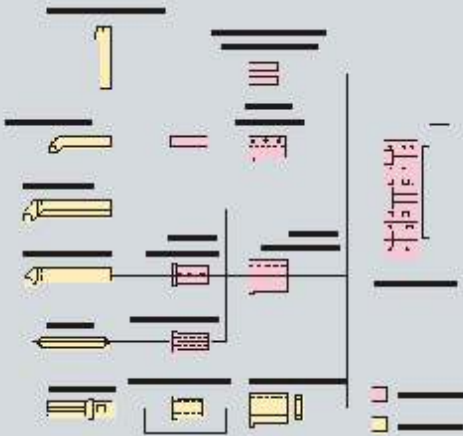
MACHINING RANGE



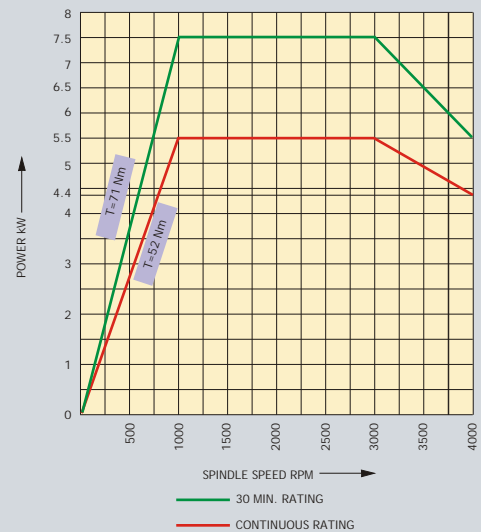
INTERFERENCE DIAGRAM



TOOLING DIAGRAM



POWER TORQUE DIAGRAM



Electrical System

The machine uses highly reliable and internationally accepted electrical elements and sub systems. Fanuc CNC system, Fanuc AC digital spindle motor with controller and Fanuc axes motors with controller are offered as standard.



CNC SYSTEM FANUC Oi-T

Features

- Manual data input
- Simultaneously controllable 2 axes
- Part program storage & editing
- Tool nose radius compensation
- Self diagnostics
- Constant surface speed control
- Multiple repetitive cycles
- Thread cutting cycles
- Feed rate override
- Circular interpolation
- Direct drawing dimension programming
- Absolute/incremental programming
- Tape punch interface (RS 232C port)
- Program memory 640 meters of tape 256K
- Backlash compensation
- Background editing
- Inch/metric switchable

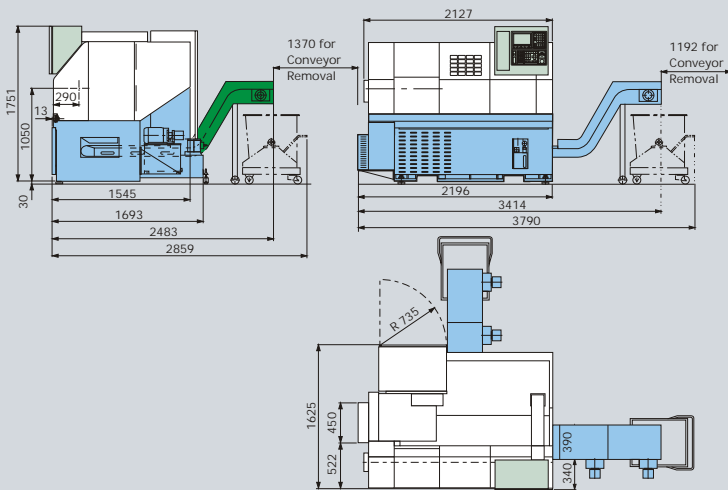
SPECIFICATIONS

Capacity		
Distance between centers	mm	425
Maximum turning dia.	mm	270
Maximum turning length	mm	400
Main Spindle		
Spindle nose	mm	A2-5
Bore thro' spindle	mm	47
Bar capacity*	mm	25*
Chuck size	mm	165
Front bearing bore	mm	80
Spindle motor rated power (continuous rating/30 min. rating)	kW	5.5/7.5
Speed range (inf. variable)	rpm	50 4000
Full power range	rpm	1000 - 3000
Axes Slides		
X axis stroke	mm	140
Z axis stroke	mm	400
Feed rate (inf. variable)	mm / min.	0 - 10,000
Rapid traverse rate: X axis	m / min.	20
Rapid traverse rate: Z axis	m / min.	20
Threading pitch (max.)	mm	32
Tailstock		
Quill diameter	mm	80
Quill stroke	mm	100
Taper in quill		MT4
Thrust (adjustable) Max.	Kgf.	300
Tailstock base travel	mm	235
Turret		
No. of stations		8
Maximum boring bar dia.	mm	40
Tool cross section	mm	25 x 25
Weight (approx.)	kg.	4000

* With appropriate workholding

Specifications correct at time of print. Owing to continuous upgrading of our products, the specifications may be reconfirmed while ordering.

Overall Views



STANDARD FEATURES

- Hydraulic power chuck
- AC spindle & axes drives
- AC unit for electricals
- High speed bi-directional tool turret
- Hardened and ground guide way strips
- Turcite anti-slipstick liners on slide way surfaces
- Tailstock with live center
- Automatic centralized lubrication
- Built-in lighting system
- OD turning tool block (8 nos)
- Boring bar holder (4 nos)
- Facing tool holder (2 nos)
- Set of sleeves
- Coolant system



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