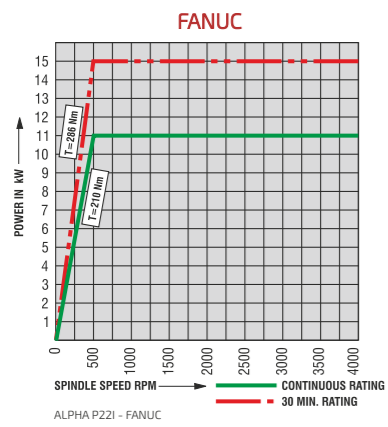
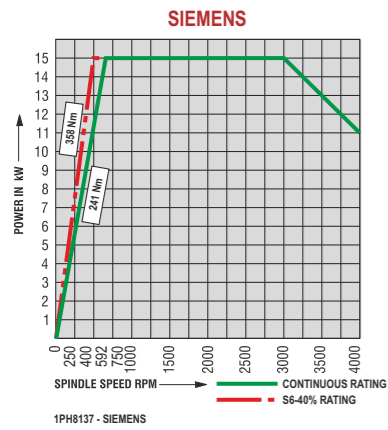
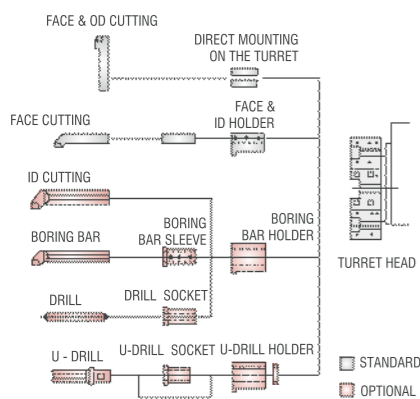


## POWER TORQUE DIAGRAM



Note : Power Torque diagrams for other speeds available on request

## TOOLING DIAGRAM



## SPECIFICATIONS

DESCRIPTION	UNITS	LT-20C Classic / Classic LM
Control Systems		Fanuc Oi-TD / Seimens 828 D
<b>CAPACITY</b>		
Swing Over Bed	mm	550
Distance Between Centres <sup>1</sup>	mm	740
Maximum Turning Dia <sup>2</sup>	mm	370
Between Centre Turning Dia	mm	290 / 330
Maximum Turning Length <sup>13</sup>	mm	670
<b>SPINDLE</b>		
Spindle Nose		A2-6 (A2-8)
Bore Through Spindle	mm	63(86)
Front Bearing Bore	mm	100(120)
Maximum Bar Capacity <sup>3</sup>	mm	51(74)
Maximum Spindle speed <sup>3</sup>	rpm	4000(3000)
Spindle Motor Power (30min. Rating)	kw	15 / 15
Spindle Motor Power (Continuous Rating) (F/S)	kw	11 / 15
Full Power Range	rpm	500-4000(375-3000)
Standard Chuck Size	mm	200
<b>AXES</b>		
Types of Guideways		Linear Motion
X-Axis Stroke	mm	205
Z-Axis Stroke	mm	670
X & Z Axes Rapid Rate	m / min.	20
<b>TOOLING</b>		
Number of Tools Maximum		8(12)
Boring Bar Dia Maximum	mm	40
OD Turning Tool Size	mm	25 X 25
<b>TAILSTOCK</b>		
Tailstock Base Travel	mm	425
Tailstock Quill Travel	mm	120
Tailstock Quill Dia.	mm	80
Quill Taper		MT-4
Coolant Tank Capacity	litre	160
<b>HYDRAULIC SYSTEM</b>		
Hydraulic Pump Capacity	lpm	14
Hydraulic Power Pack Tank Capacity	litre	45
System Pressure	Kg / cm <sup>2</sup>	30
Overall Machine Dimensions (LxWxH)	mm	3310 x 1535 x 1760
Overall Weight (Without Packing)	kg	~5000

Specifications correct at the time of print. Owing to continuous up-gradation of our products, the specification may change and to be reconfirmed at the time of ordering.

<sup>1</sup> Refer machining range diagram

<sup>2</sup> Refer interference diagram

<sup>3</sup> With Appropriate work holding

Note:

a. Figures in Bracket are optional

b. Siemens 828D Basic T can also be offered. Details on request.

c. Features shown may not be part of the standard equipment.

Manufactured by:

**ACE DESIGNERS LTD.**

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MKD/Lune-16/Rev.00

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## LT-20C CLASSIC LM



### STANDARD FEATURES

- Cartridge type spindle
- AC spindle drives
- AC axes drives
- High speed bi-directional tool turret
- Linear Motion Guideways
- Turcite anti-slipstick liners on slide way surfaces
- Tailstock with Add-on type live centre
- Automatic centralized oil lubrication
- Built-in lighting system & over load trip clutch for axes
- OD tool holder damping blocks (8 No's)
- Boring bar holder (4 Nos)
- Facing tool holder (2 Nos)
- Set of sleeves
- Coolant systems with side tray
- Programmable quill

### OPTIONAL FEATURES

- Fully tooled up solutions to meet customer needs
- Chip conveyor at side or rear
- A wide variety of power operated work-holding (chucks, collets, fixtures, etc) and tooling
- 12 station Turret
- Auto door
- Tool touch probe
- Parts catcher
- Bar feeder
- Programmable Tailstock
- Steady Rest
- VDI Disc on Turret
- A2-8 spindle
- Manual guide i
- Door interlock
- Built in live center for Tailstock
- Torque enhancement by star delta

(Available in LM version also)

LM - Linear motion guide ways

**AceMicromatic**  
Group Company

# LT-20C CLASSIC

The LT-20C Classic is high Precision CNC Turning Centre to create a wide variety of Machining needs.

## BED

The bed is fine grain Grade 25 cast iron casting with box type construction. It is heavily ribbed to provide rigidity and is thermally seasoned. The bed is designed for easy chip flow and removal. The chip pan is independently located under the cutting area. Chip conveying option can be provided to the side or the rear of the machine.



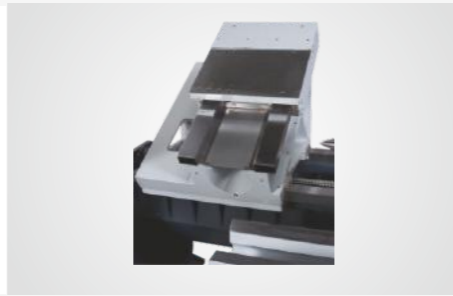
## SPINDLE

The cartridge type spindle is assembled and tested in a controlled clean room environment. The bearing configuration gives very high stiffness to the spindle assembly in both axial and radial directions. The bearings are grease lubricated for life. A high torque spindle motor provides power for heavy stock removal.



## AXES

X and Z axes feature high precision large diameter ball screws supported at each end by precision class ball screw support bearings. The ball screw is pre-tensioned to minimize the effected of temperature variations. The guide ways are widely spaced to ensure stability, fully protected and are made of hardened and ground box way steel strips. The mating way is bonded with turcite for its superior wear and friction characteristics and hand scraped to perfection.



## OVERLOAD TRIPPING CLUTCH

Both axes are provided with overload tripping clutch to minimize damage in the event of an accident.



## TURRET

Bi-directional tool turret indexes in either direction for shortest indexing time. It is completely enclosed & robust in mechanism with oil bath lubrication. Three piece, Hirth coupling allows the tool disc to be indexed without lifting. It ensures repeatability, positioning accuracy and rigidity.



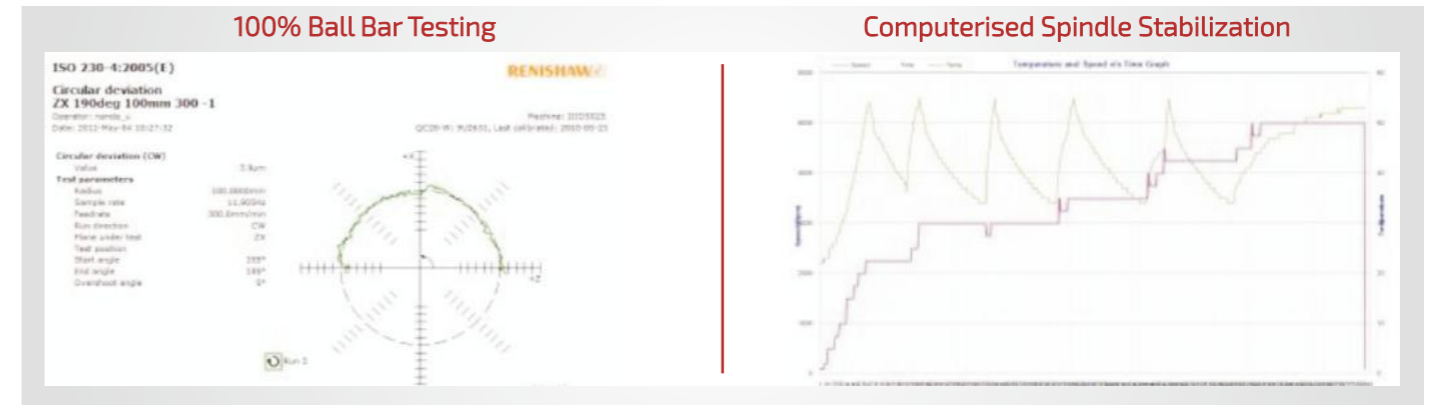
## TAILSTOCK

The tailstock consists of a hydraulically operated quill, which moves inside a housing. The quill and the body are independently moveable. The tailstock is supported on V and flat guideways. Widely spaced guideways and heavy-duty design of the tailstock ensure rigidity. Foot pedal or program activates the quill. Programmable tailstock can be provided as an option.

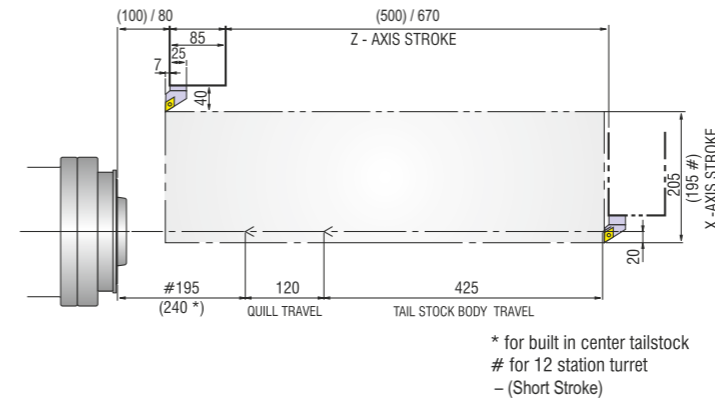


## SPINDLE TESTING

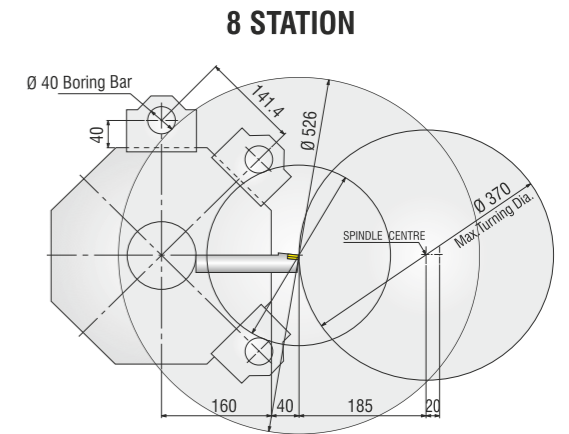
All spindle units undergo stringent testing in a controlled environment, including thermal stabilisation to ensure guaranteed performance. Temperature of spindle on running condition is monitored to ensure optimal bearing longevity by stabilising it thermally.



## MACHINING RANGE



## INTERFERENCE DIAGRAM



## OVERALL VIEWS

