



ACE Designers LT 2 MSY

Horizontal Turning Center Specifications



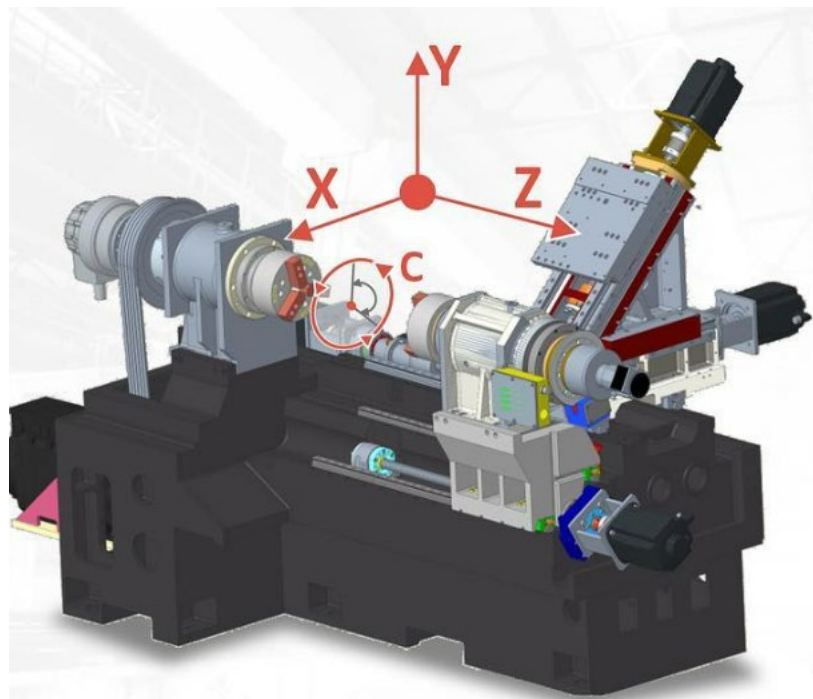
LT 2 MSY

The Ace LT 2 MSY Turn mill is a high precision CNC Turning center with C-axis capability to cater a wide variety of machining needs like turning, milling, drilling & tapping in single setup which increases the capability of the machine significantly.

The main spindle provides machine indexing in precise increments for part positioning and during live tool operations, the main spindle is locked by a powerful brake, which disengages while turning and indexing. The C-axis provides, bi-directional spindle motion that can be interpolated with X and / or Z motion. The machine elements like ball screws, bearings, CNC systems and drives have been chosen from some of the best manufacturers in the world.

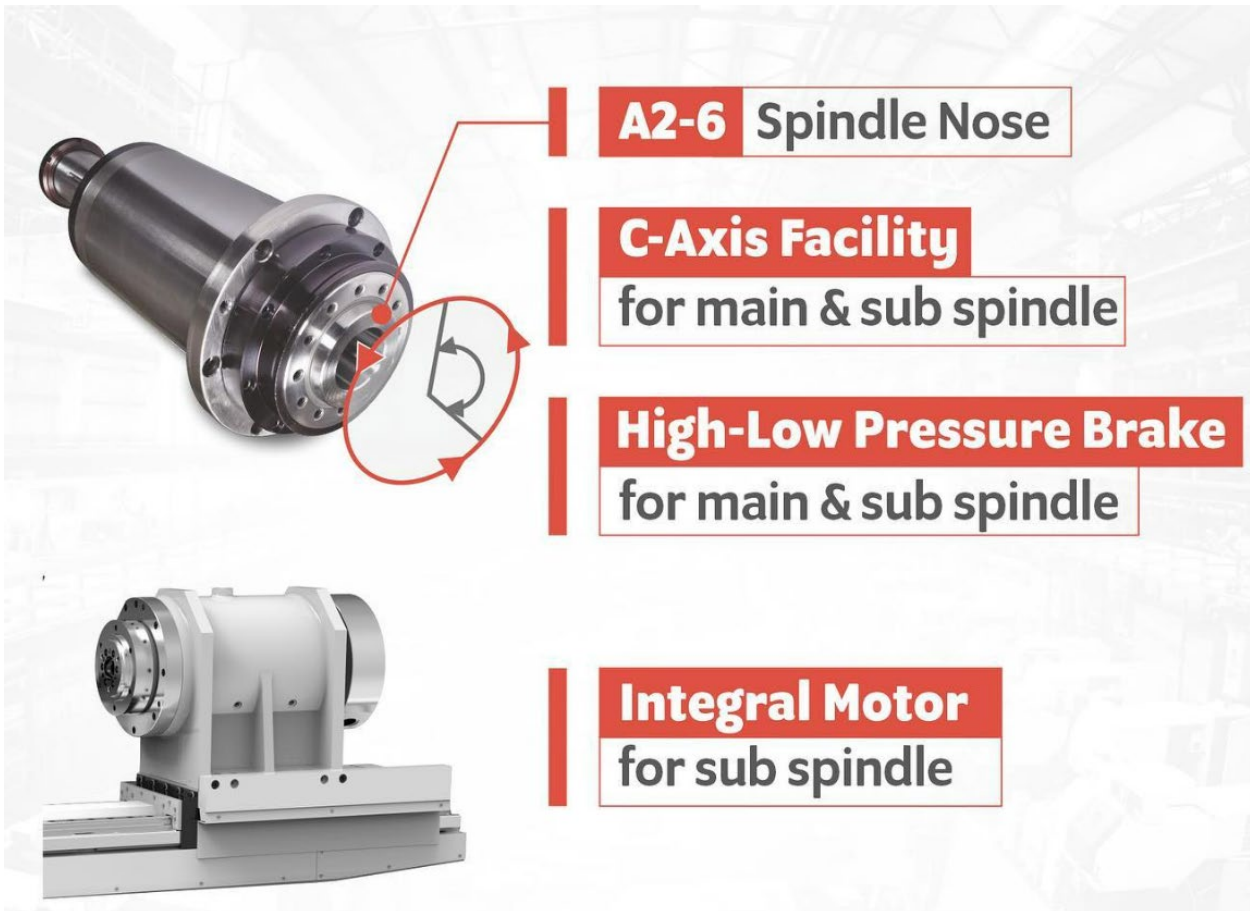
The machine is assembled by a dedicated team of skilled craftsmen under expert technical guidance. The machine has superior features like high rapid rates for both axes, rigid cartridge type spindle, safety clutch for both axes, and chip conveying from the rear or side to suit the plant layout.

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.



LT 2 MSY- Spindle

The spindle is assembled and tested in a controlled clean room environment. The spindle is of cartridge type design and uses super precision cylindrical roller bearing in front and cylindrical roller bearing in the rear. The bearing configuration gives very high stiffness to the spindle assembly in both axial and radial direction.

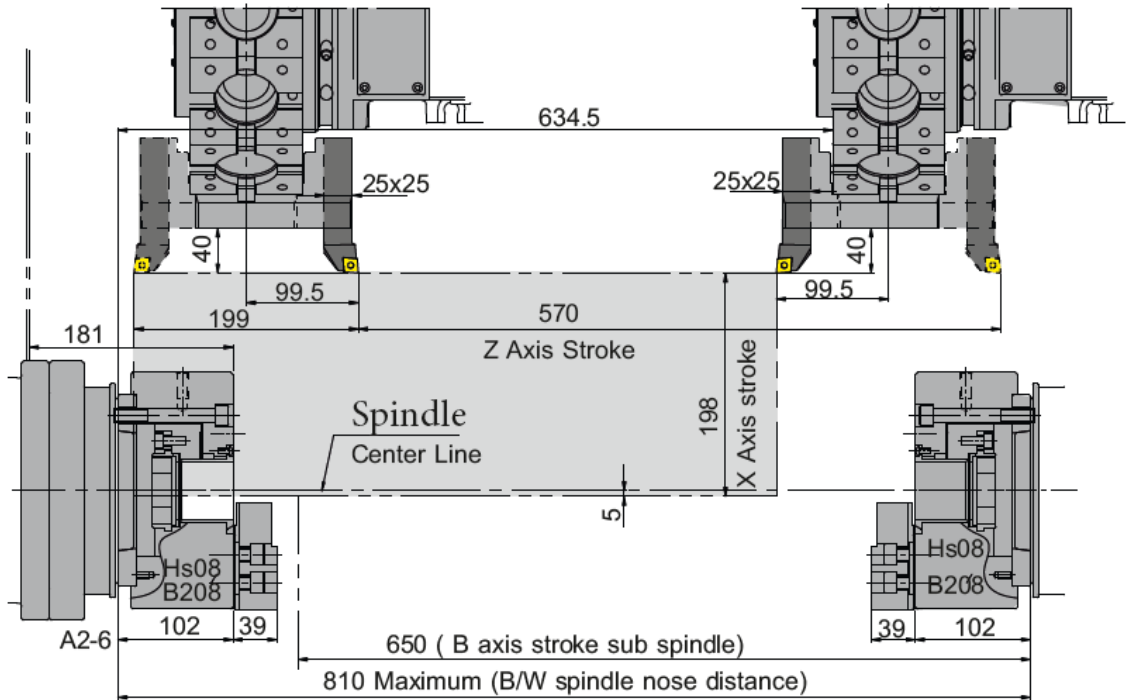


LT 2 MSY- Turret

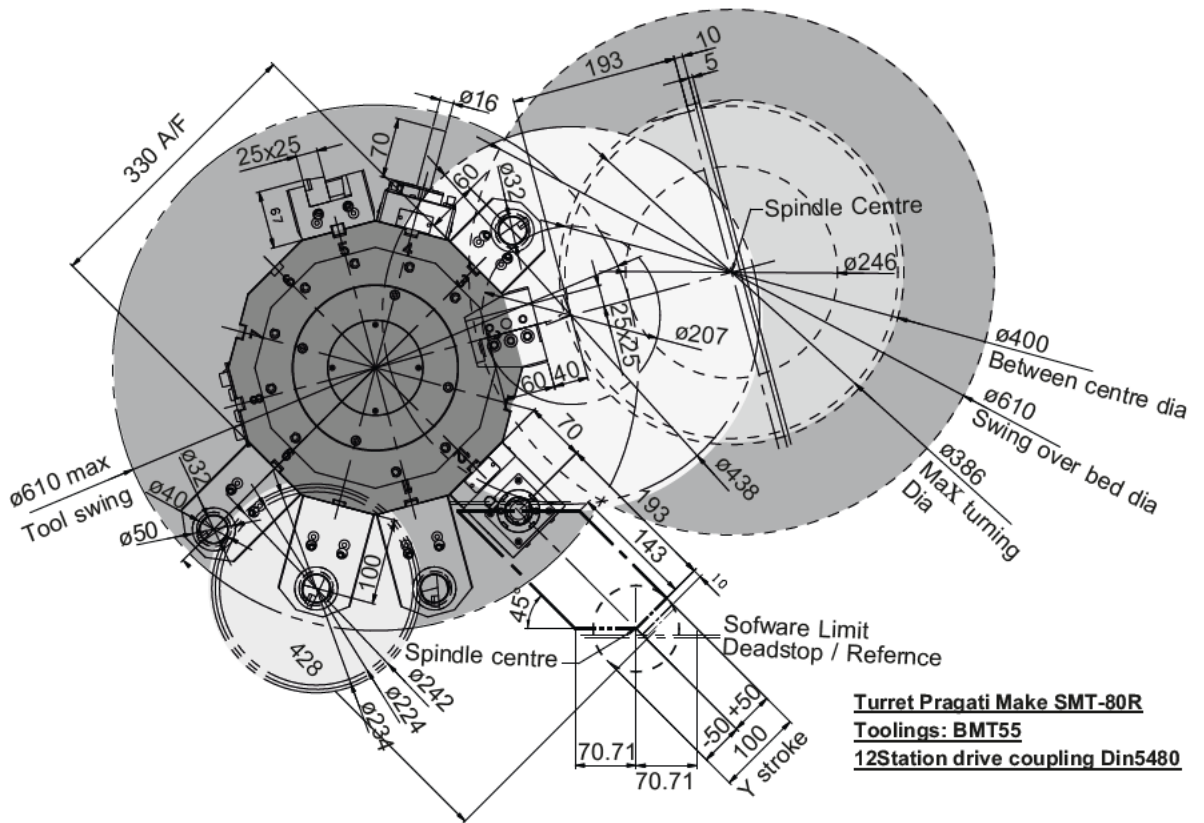


- 12 Station Servo Turret
- BMT55, Duplomatic
- Disk-Type tool with radial tools enabling forward and backward machining
- All the tool stations can be use for rotating tools
- One servomotor drives the turret rotation and the rotating tools.
- Y-axis Capability of $\pm 50\text{mm}$
- Rotary tool speed of 5000rpm
- Rotary tool power, 6HP

LT 2 MSY- Working Range



LT 2 MSY- Interference Diagram



	Description	Measurement	Size
Control System	CNC System		Fanuc Oi TF Plus
Capacity	Swing Over Bed	mm	610
	Swing Over Carriage	mm	400
	Maximum Machining Dia	mm	386
Spindle	Spindle Nose		A2-6
	Maximum Bar Capacity	mm	63
	Bore Through Spindle	mm	73
	Front Bearing Dia.	mm	110
	Max. Spindle Speed	RPM	5000
	Spindle Motor		Alpha P22
	Spindle Motor Power (30 min rating)	kW	15
	Spindle Motor Power (Continuous rating)	kW	11
Work holding (Main spindle) And turret	Chuck Size	mm	8"
	Maximum Number of Tools		12
	Maximum Boring Bar Dia.	mm	32
	OD Turning Tool Size	mm	20x20
	Turret Motor		Alpha 22iS
	Speed	rpm	5000
	Rotary tool power	kW	4.5
X Axis	Type of Guideways		Linear motion guideways
	X Axis Stroke	mm	198
	X Axis Rapid Rate	m/min	30
	X Ball Screw Dia X Pitch	mm	32 X 10
	X Axis Motor		Beta 12
	X Motor Torque	Nm	11
Z Axis	Type of Guideway		Linear motion guideways
	Z Axis Stroke	mm	570
	Z Axis Rapid Rate	m/min	30
	Z Ball Screw Dia X Pitch	mm	32 X10
	Z Axis Motor		Beta 12
	Z Motor Torque	Nm	11

	Description	Measurement	Size
Y Axis	Type of Guideway		Linear motion guideways
	Y Axis Stroke	mm	±50
	Y Axis Rapid Rate	m/min	10
	Y Ball Screw Dia X Pitch	mm	32 X10
	Y Axis Motor		Beta 12
	Y Motor Torque	Nm	11
Sub spindle	Spindle Nose	mm	Flat Nose
	Bar Capacity	mm	NA
	Front Bearing Dia	mm	80
	Max. Spindle speed	RPM	4000
	Spindle motor		B112is
	Spindle Motor power	kW	5.5/7.5
Coolant System	Coolant Pump		RKM 0608
	Coolant Tank Capacity	l (litres)	200
Hydraulic System	Hydraulic Pump Capacity	LPM	14
	Hydraulic Power Pack Tank Capacity	l (litres)	45
	System Pressure	Kg/cm ²	30
	Overall machine Dimensions		mm
Over all weight		kg	~6,000 (without packing)

Note: Owing to continuous upgradation of our products, the specifications are subject to change without notice.

LT 2 MSY- Machine Layout

