BT-22
Bright Face Turning

Alloy Wheel Bright Turning Lathe with 22kW Built-in Spindle

The Efamatic BT-22 CNC Lathe has been designed and engineered from the ground-up for the specific task of Bright and Diamond Turning.

Using a High Precision Spindle with Built-in Fanuc Motor, Rexroth Linear Motion Technology and Fanuc A1 Contour Control, unparalleled levels of surface finish can be achieved.

With proven manufacturing processes, technical advancements and engineering excellence developed over the company's 55+ years of active machine building, Efamatic Machine Tools has yet another product that is busy setting benchmarks in the industry.
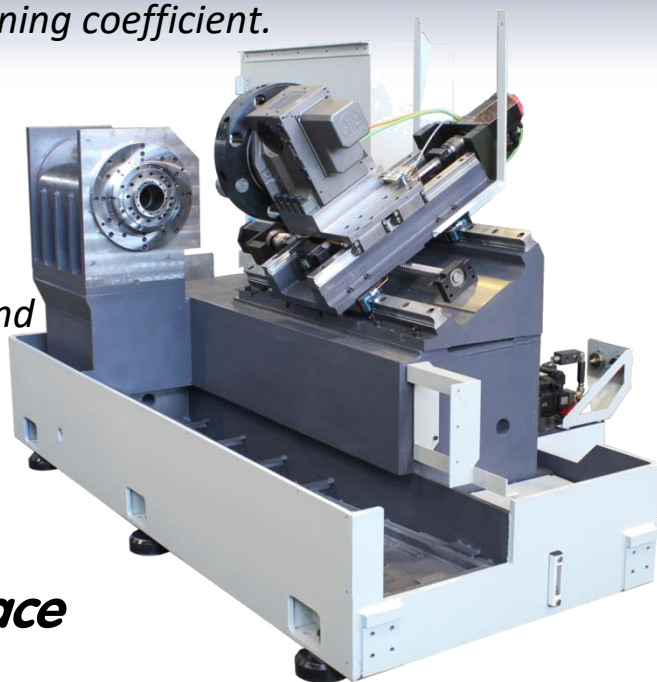
MADE IN SOUTH AFRICA

efamatic machine tools

Optimized Structural Design

Our unique One-piece Fabricated Base goes through a **5-step** process to achieve superior quality, rigidity and a high dampening coefficient.

1. Stress Relieved
2. Shot Blasted
3. Concrete Filled
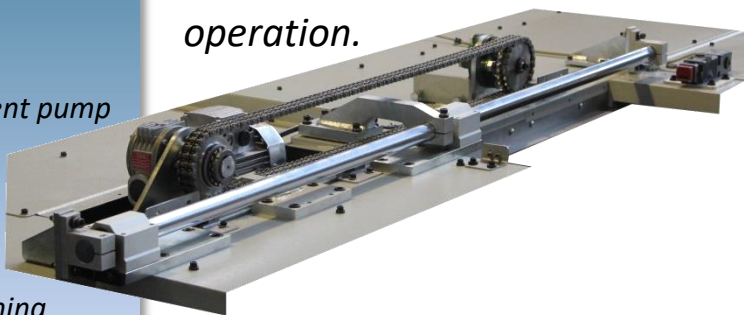4. Machined
5. Precision Ground

Robot Interface

The machine is fitted with the necessary I/O and PLC functionality for easy Robot interfacing, perfect for automated manufacturing
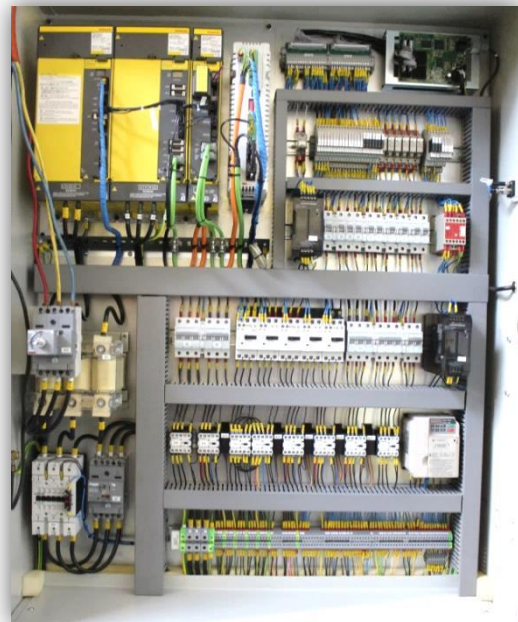
High-end Standard Equipment

- *Fanuc OiTF CNC control with A2 Contour control*
- *15/22 kW **built-in spindle motor** with digital drive*
- *Fanuc Digital Servo motors and digital drives*
- *Servo driven 8 station VDI 50 turret*
- *X and Z axis run on Precision Rexroth linear guides and ballscrews*
- *Flood coolant to cutting edge*
- *Swarf conveyor*
- *Spindle Oil Cooler*
- *Hydraulic power pack and variable displacement pump with radiator, solenoid valves, pressure reducing valve, piping and fittings*
- *Hydraulic cylinder for main spindle*
- *Automatically operated sliding door*
- *Renishaw Probe integration for precise machining (optional)*
- *Wheel presence air sensor with auto clamping*
- *Knee operated unclamp switch for easy wheel loading*

Electrical Cabinet

Our electrical panels and machine wiring conforms to the highest international standards.

Precision Guided Sliding Door

Guided along a 30mm Ground Bar with Sealed Linear bearings, the automated sliding door is driven through a torque limited reduction gearbox and vari- speed drive.

This system ensures smooth movement and low-maintenance operation.

efamatic
machine tools

BT-22 STANDARD SPECIFICATIONS

CAPACITY	Max Swing	mm (in)	650 (25.59)
	Max Turning Diameter	mm (in)	620 (24.41)
	Max Turning Length	mm (in)	310 (12.20)
	Max Workpiece		14x6J to 22x9.5J (Incl. 18x10J)
TRAVELS	X Axis	mm (in)	385 (15.15)
	Z Axis	mm (in)	510 (23.07)
SPINDLE	Speed Range	min-1	200-3,000
	Number of Speeds		Infinitely Variable
	Spindle Nose		JIS A2-8
	Spindle Bore Diameter	mm (in)	ø 91 (3.58)
	Spindle Bearing I.D.	mm (in)	ø 140 (5.51) - NSK 3off
TURRET	Type		Baruffaldi TB250 VDI 50 turret
	Number of Tools		8 Station
	O.D. Turning Tool Shank	mm	25 x 25
	ID tool shank		ø40 (ø1-1/2)
	Indexing time	sec	0.4/station (0.73/to opp tool)
FEEDRATE	Rapid Traverse X	mm/min (ipm)	15,000 (590.5)
	Rapid Traverse Z	mm/min (ipm)	20,000 (787.4)
	Spindle Drive	kW (hp)	15/22 (20/29.5) (cont/30 min)
NOTES	X Axis (Cross side (X) drive)	kW (hp)	12Nm
	Z Axis (Saddle (Z) drive)	kW (hp)	12Nm
	Coolant Pump	kW (hp)	0.8 (1.1)
SIZE	Floor to spindle centerline	mm (in.)	1,130 (44.48)
	Height	mm (in)	2120 (83.46)
	Machine Dimensions (Incl. Conveyor)	Width x Depth	2,975 x 1,975 (3,800 x 1975)
	Required Floor Space, includes rear access and conveyor removal	Width x Depth	4,600 x 2,950
	Mass	kg (lbs)	6,500 (14,340)
CONTROLLER	Controller		Fanuc Oi-TF
	Screen Size		8.4" color LCD/MDI (Horizontal) (with USB interface)

INCLUDED ACCESSORIES

	1	Automatic Front Door Open / Close	1 Set
	2	Hydraulic Cylinder For Auto. Chuck	1 Set
	3	Externally Mounted Air Blower Gun	1 Set
	4	Swarf Conveyor	1 Set
	5	In-Machine Chip Flusher System	1 Set
	6	Operator Utllity Tray (4 Tier)	1 Set
	7	Knee Operated Chuck Unclamp Button / Robot Interface	1 Set
	8	Work Light	1 Set
	9	Toolkit	1 Set