

# MT-208/208 MC Series

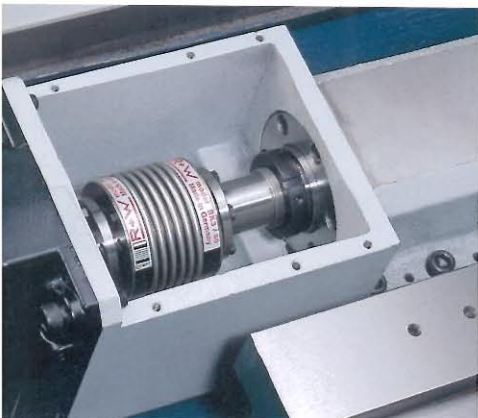
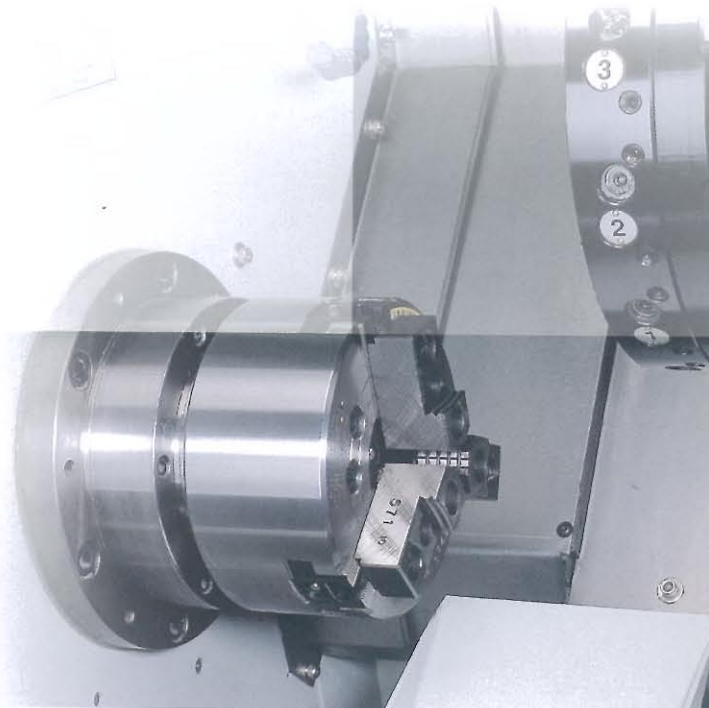


## ECOCA MT-208/208MC Series

Offering the most solid base to process up to 750mm turning length, bar capacity up to 51mm, and swing up to 525mm over bed, the EcoCA MT 2 series provide the best possible results for medium and small-sized CNC lathe operation. The sturdy 30 degree slant bed provides a vibration free operation to the machine. The ergonomically placed spindle, tailstock, and turret provide the operation with the optimal working condition.

The rigid mechanical configurations yield a very high level of reliability and easy access to the machine operation and maintenance. The EcoCA MT 2 series is a very fine integration of high quality and affordable prices.

Fast and accurate  
servo-driven turrets.



Flexible coupling from Germany ensures the smooth and accurate movements of the machine.

**1 Machine bed**

- 30 degree slant bed design for easy operation and easy chip removal.
- Cast iron bed with optimally designed ribs with integral stiffness provides an very strong rigidity.

**3 Guide ways**

- Both square and linear guide ways can be provided in the MT 2 series to meet various machining requirements of machine users.
- Double supported ballscrews
- Direct-driven servo motors are used for axial movements.

**5 Tailstock**

- One-piece structure on the machine structure to provide massive rigidity.
- Programmable tailstock available as an option.

**2 Spindle headstock**

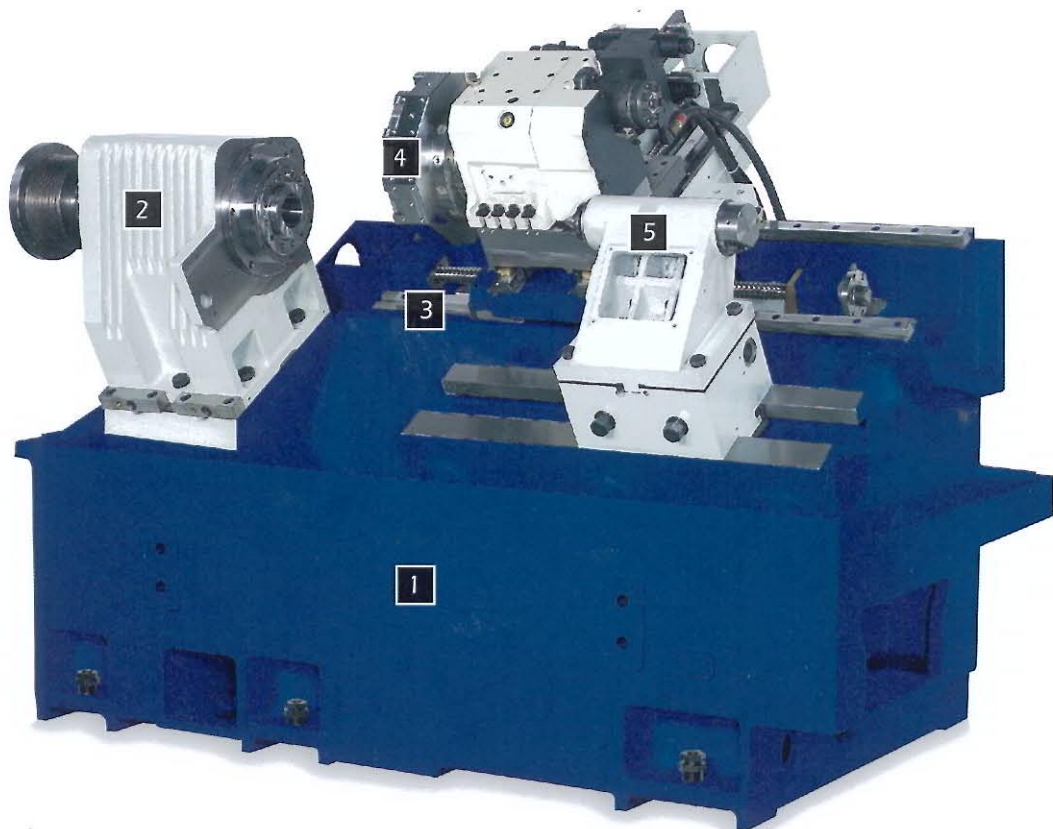
- Big diameter bearing (up to 100mm) provides high rigidity.
- High-resolution encoder mounted on spindle to provide accurate C axis positioning.
- C axis with continuous indexing.
- Up to 51mm bar capacity (MT208).

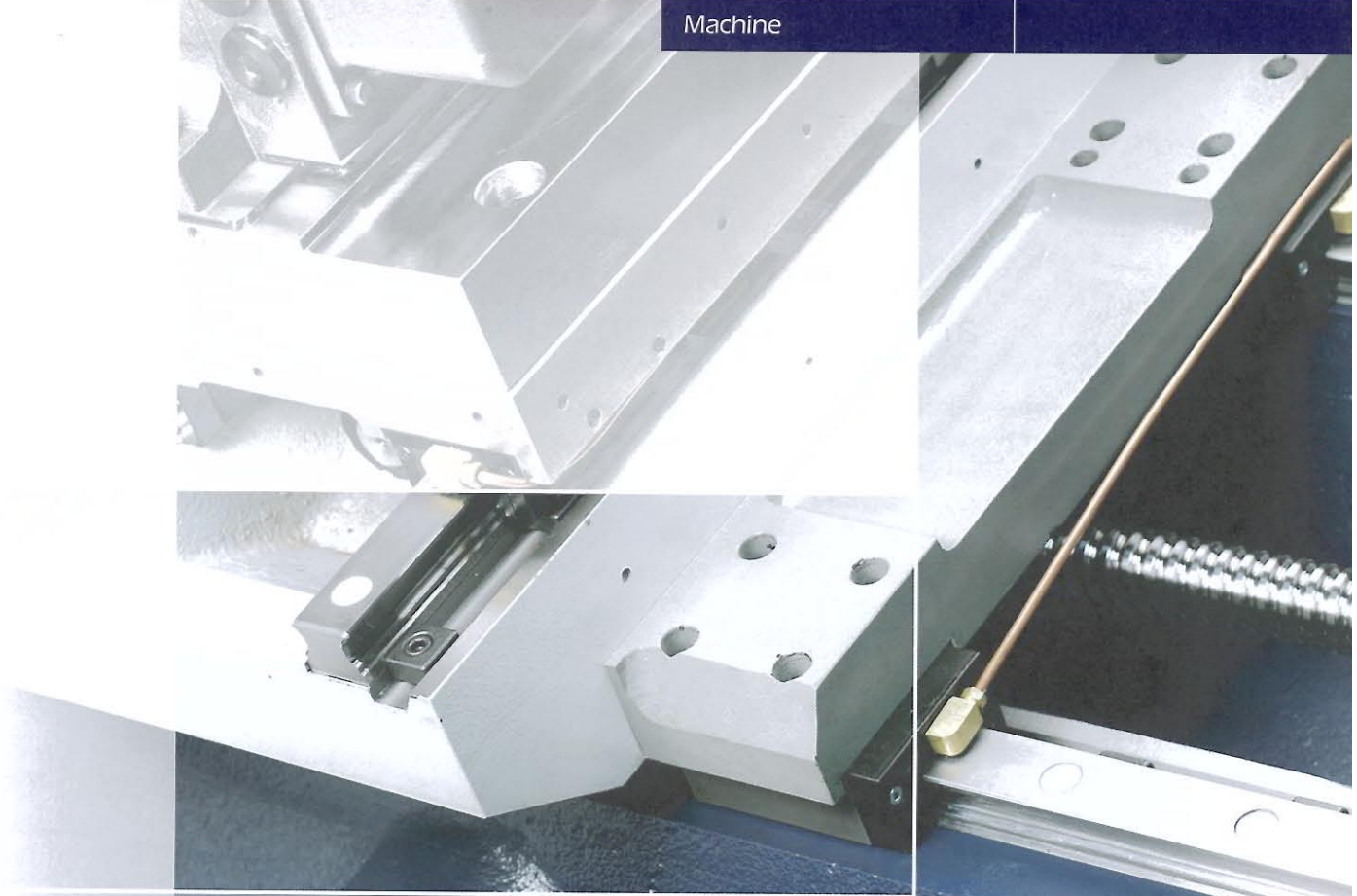
**4 Turret**

- 12-station turret
- Servo turret (21i TB control) or hydraulic turret (0i TC) is offered for users as an alternative choice.
- Large disc is equipped for easy tool set up.

**Coolant and hydraulic system**

- Special spindle motor location design reduces machine floor space
- Large coolant tank
- Internal coolant supply through turret disc.
- Coolant pumps from GRUNDFOS.
- PLC controlled chip conveyor.
- DUPLOMATIC hydraulic valves.





## A successful machine with an advanced control system: FANUC i series

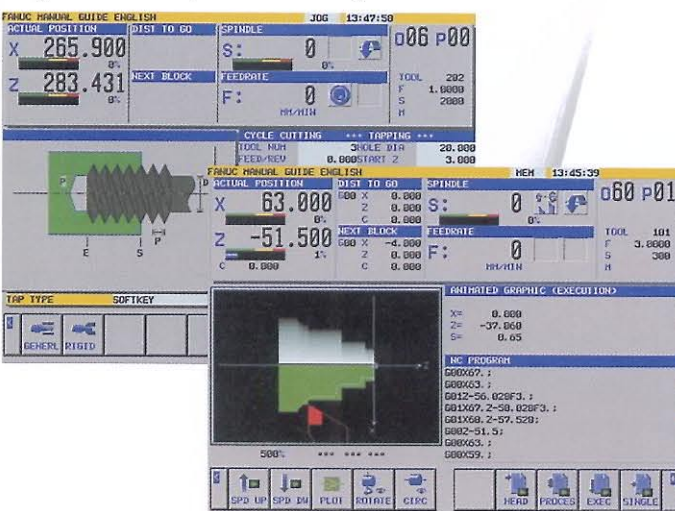
### Fanuc 21iT Model B

The newest control unit generation from Fanuc certainly has a lot to offer. A large number of machining cycles together with the simplified creation of

geometries "Direct Drawing Dimension", make it very user friendly. The 10.4" TFT colour monitor, ASCII keyboard and handwheel are the basis for efficient and fast working. Optional PCMCIA and Ethernet

interfaces make the Fanuc an open control system with network capability. Motors and drive are naturally also from Fanuc.

### Program for lathe (MANUAL GUIDE)

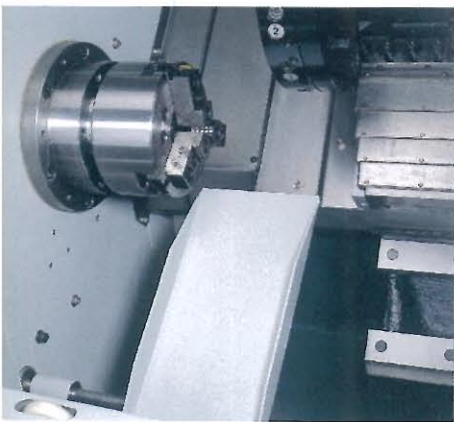


Solid model animation for lathe

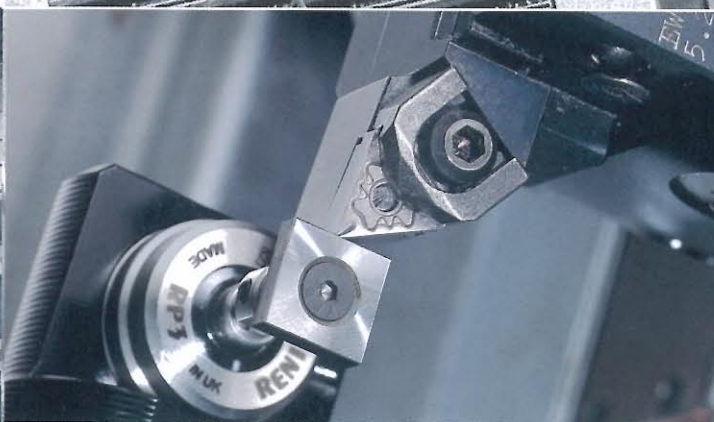
Manual Guide Oi/i conversational programming function as standard for Fanuc Oi-TC/21i-TB control.



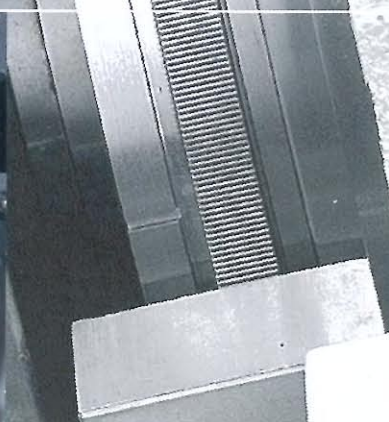
We have consider all the turning applications you might use:  
Wide range of options available  
for your choice



Parts catcher is available for full automation job.



Tool setter from Renishaw provides quick and easy tooling set up.



Cs axis high resolution encoder from FANUC

We offer a wide range of options to suit different turning applications. The bar feeder interface to connect the machine to a bar feeder together a parts catcher is a very excellent example for bar working.

The tool setter from Renishaw provides easy set up process and ensures utmost accuracy. For short working cycle applications we also offer automatic door for production efficiency. All these options are provided to make the MT 3 series to be the machines of the new millennium, which will make your production faster, more accurate, and more efficient!

#### STANDARD ACCESSORIES

- 3-jaw hydraulic chuck
- Hydraulic system
- Hydraulic tailstock
- Live center
- Coolant system
- Morse Taper Sleeve
- Auto lubrication system
- Work light equipment
- Heat exchanger
- Soft jaws
- Foot switch for chuck clamp
- MPG hand wheel
- Operation & maintenance manuals
- Hand tool box
- Levelling pads
- OD tool holder
- Facing tool holder
- Boring bar holder & sleeves
- Drill sleeves

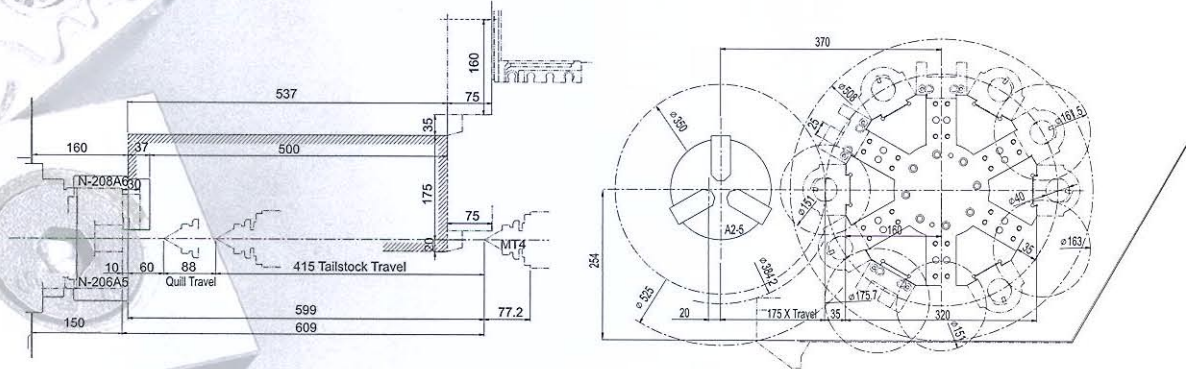
#### OPTIONAL ACCESSORIES

- Bar feeder
- Parts catcher
- Tool setter
- Cs-axis
- VDI turret (without tool holders)
- VDI tool holders
- Auto door
- Chip conveyor
- Chip bucket
- Transformer
- CE mark
- Safety torque limit clutch
- Hoisting hook package
- Levelling kit
- Bar feeder interface (LNS system)
- Additional tool holders and sleeves

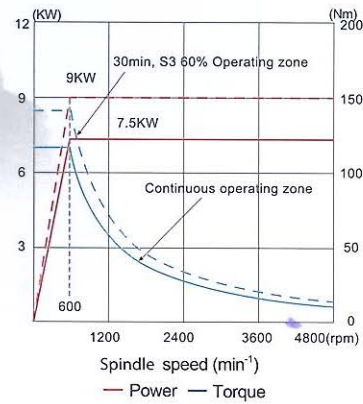
## Tool Interference Diagram

unit:mm

MT-208

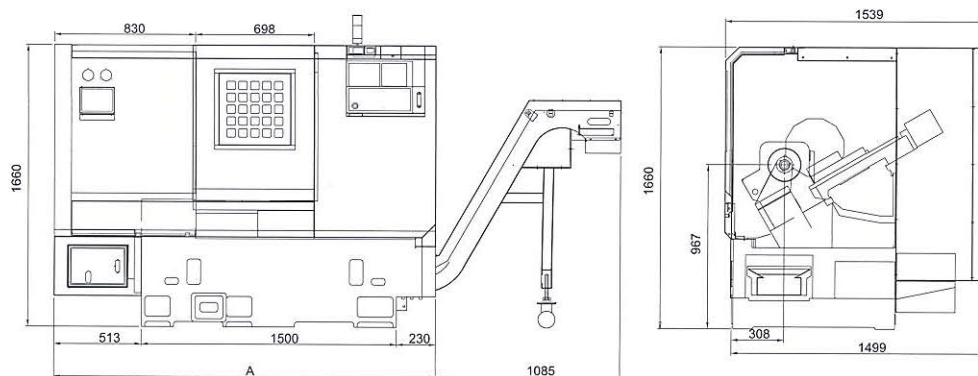


## Power Diagram

MT-208 Spindle Capacity ( $\alpha$  P15-6000i)

## Machine Dimensions MT-208

unit:mm



Z axis Spec	500	750
A	2300	3100

# Machine Specifications

ITEM	MT-208/208MC	
SWING OVER BED	mm	525
OVER CROSS SLIDE	mm	384
MAX. TURNING DIA	mm	350 250
MAX. WORK LENGTH	mm	500/750(opt.)
DRAW TUBE BORE	mm	52
CHUCK SIZE	inch	8"
SPINDLE DRIVE MOTOR		7.5KW/9.0KW
SPINDLE SPEED RANGE	rpm	4800
SPINDLE NOSE	ASA	A2-6
THROUGH SPINDLE HOLE DIA	mm	62
FRONT BEARING DIA	mm	100
SPINDLE TAPER		1/20
X AXIS TRAVEL	mm	185 175
Z AXIS TRAVEL	mm	537/787(opt.)
X AXIS MOTOR		1.2KW(0imate)/1.6HP 1.6KW(0i-TC/21i-TB)/2.1HP
Z AXIS MOTOR		1.2KW(0imate)/1.6HP 3.0KW(0i-TC/21i-TB)/3.8HP
X AXIS RAPID TRAVERSE	m/min	24/30(opt.) 24
Z AXIS RAPID TRAVERSE	m/min	24/30(opt.) 24
GUIDEWAYS		LINEAR/HARD RAIL
NO. OF TOOL STATIONS		12/8(opt.)
SIZE OF EXTERNAL TURNING TOOL	mm	20
BORING BAR DIA	mm	40
QUILL DIA	mm	58
QUILL TRAVEL	mm	88
TAILSTOCK TRAVEL	mm	415/665(opt.)
QUILL TAPER		MT#4
ELECTRICAL POWER SUPPLY	kVA	30
COOLANT TANK CAPACITY	Liter	125
COOLANT FLOW	L/min	15
TOTAL HEIGHT	mm	1660
FLOORSPACE	LENGTH	mm 2300/3100
	WIDTH	mm 1500
NET WEIGHT	kg	3900/4600

All specifications, designs and characteristics shown in this catalogue are subject to change without prior notice.



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