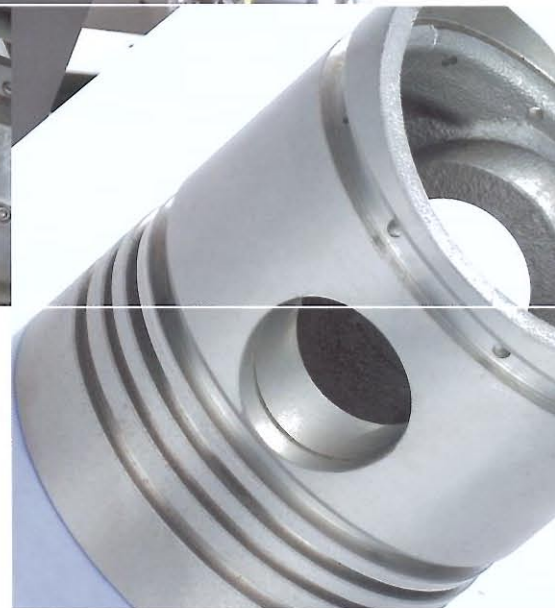
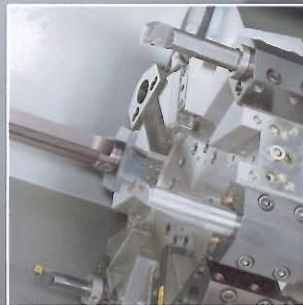


MT-308MCS/310/312 Series

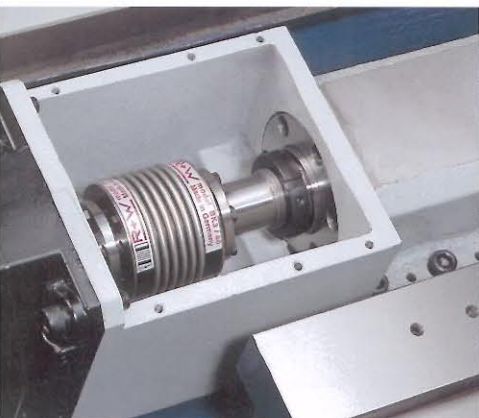


ECOCA MT-308 / 310 / 312 Series

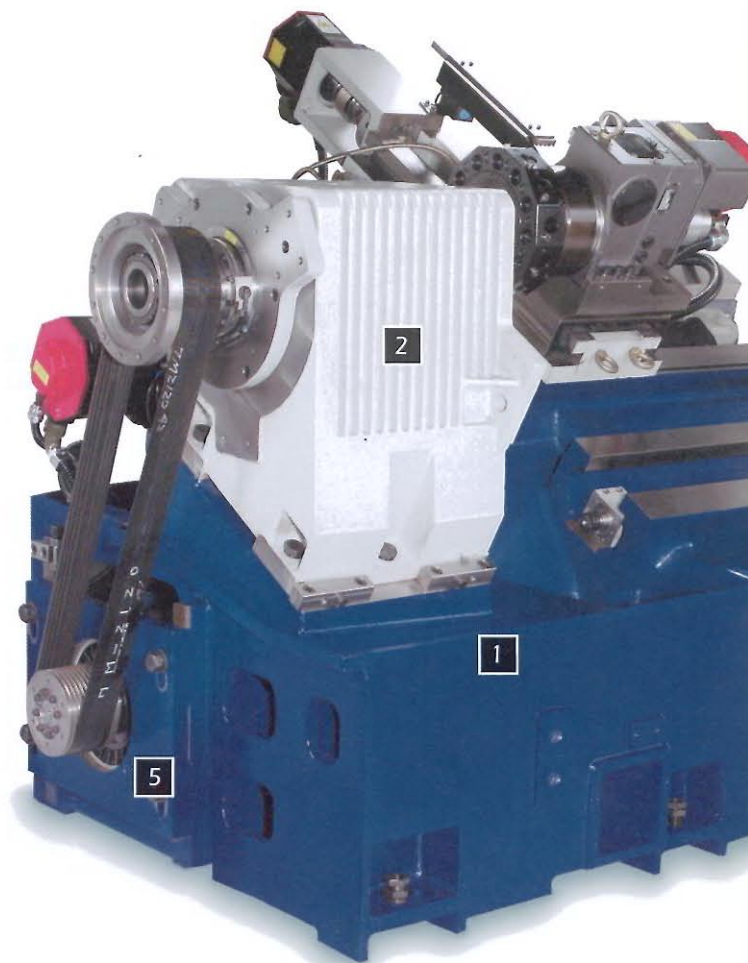
Offering the most solid base to process up to 1000mm turning length, bar capacity up to 91mm, and swing up to 600mm over bed, the EcoCa MT 3 series provide the best possible results for CNC lathe operation. The sturdy 30 degree slant bed provides a vibration free operation to the machine. The ergonomically 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 3 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.

2 Spindle headstock

- Big diameter bearing (up to 140mm) provides high rigidity.
- High-resolution encoder mounted on spindle to provide accurate C axis positioning.
- C axis with continuous indexing.
- Up to 91mm bar capacity (MT-312).

3 Guide ways

- Both square and linear guide ways can be provided in the MT 3 series to meet various machining requirements of machine users.
- Double supported ballscrews
- Direct-driven servo motors are used for axial movements.

4 Turret

- 12-station turret
- Servo turret (2li TB control) or hydraulic turret (0i TC) is offered for users as an alternative choice.
- Large disc is equipped for easy tool set up.

5 Spindle motor

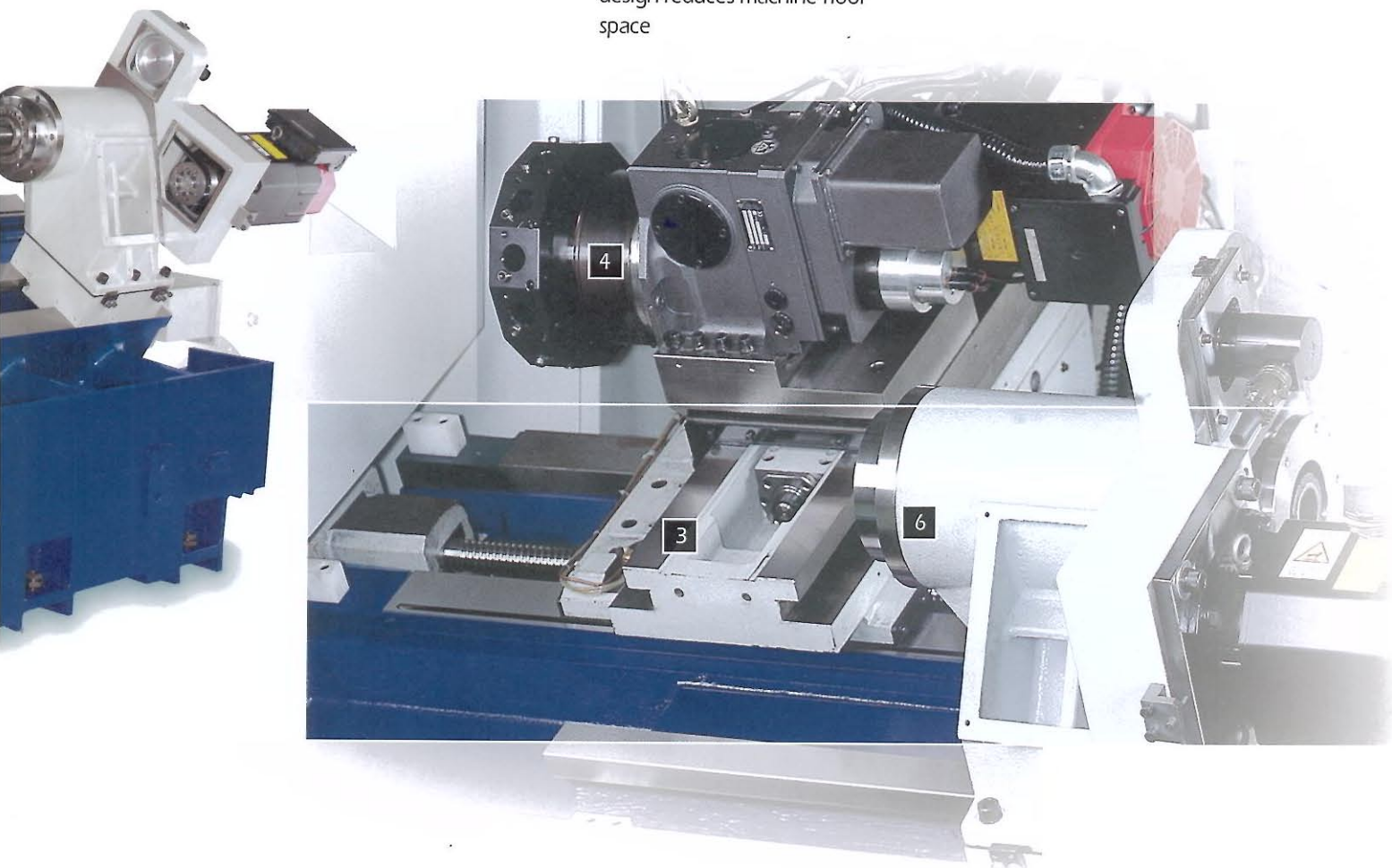
- Special spindle motor location design reduces machine floor space

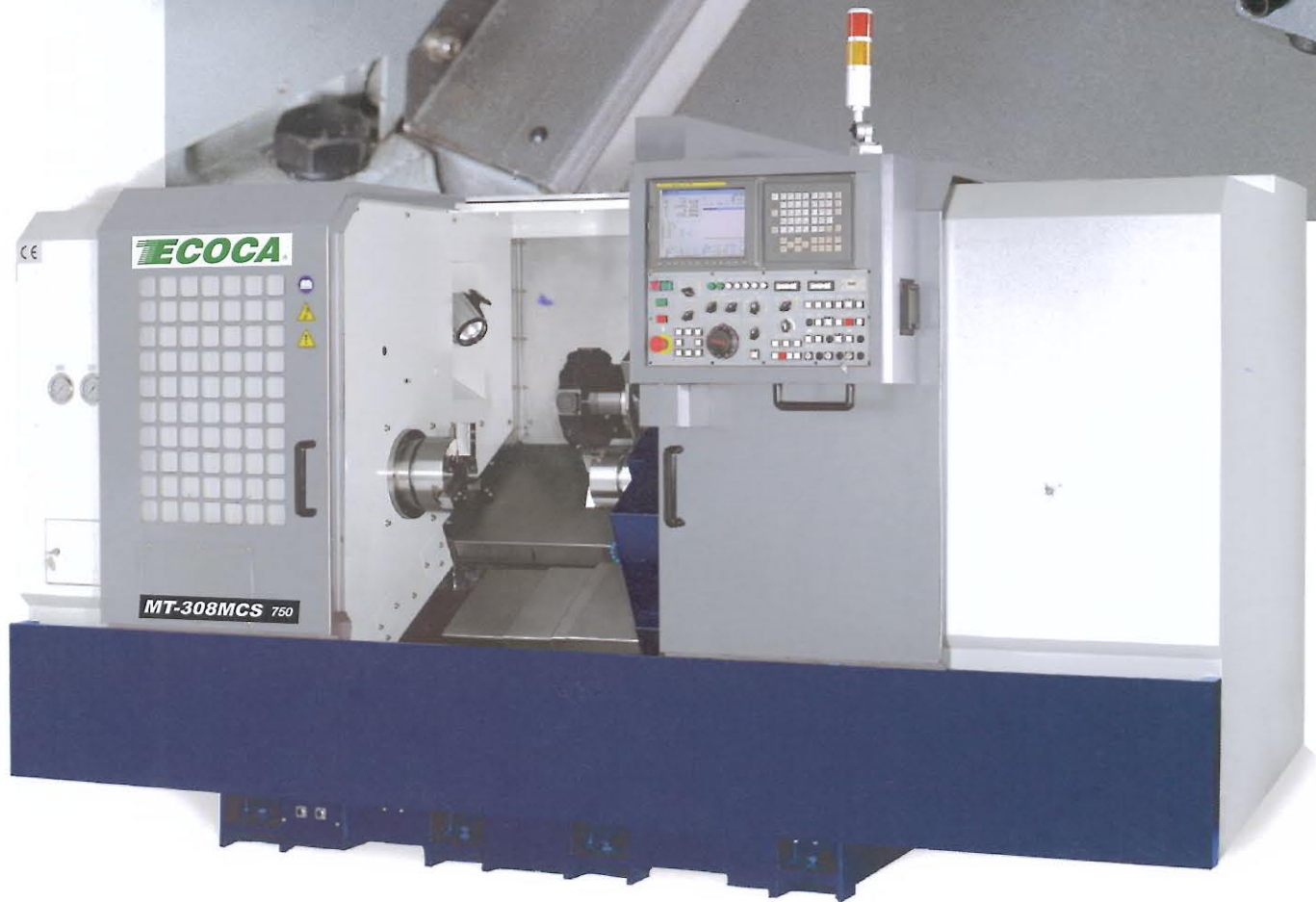
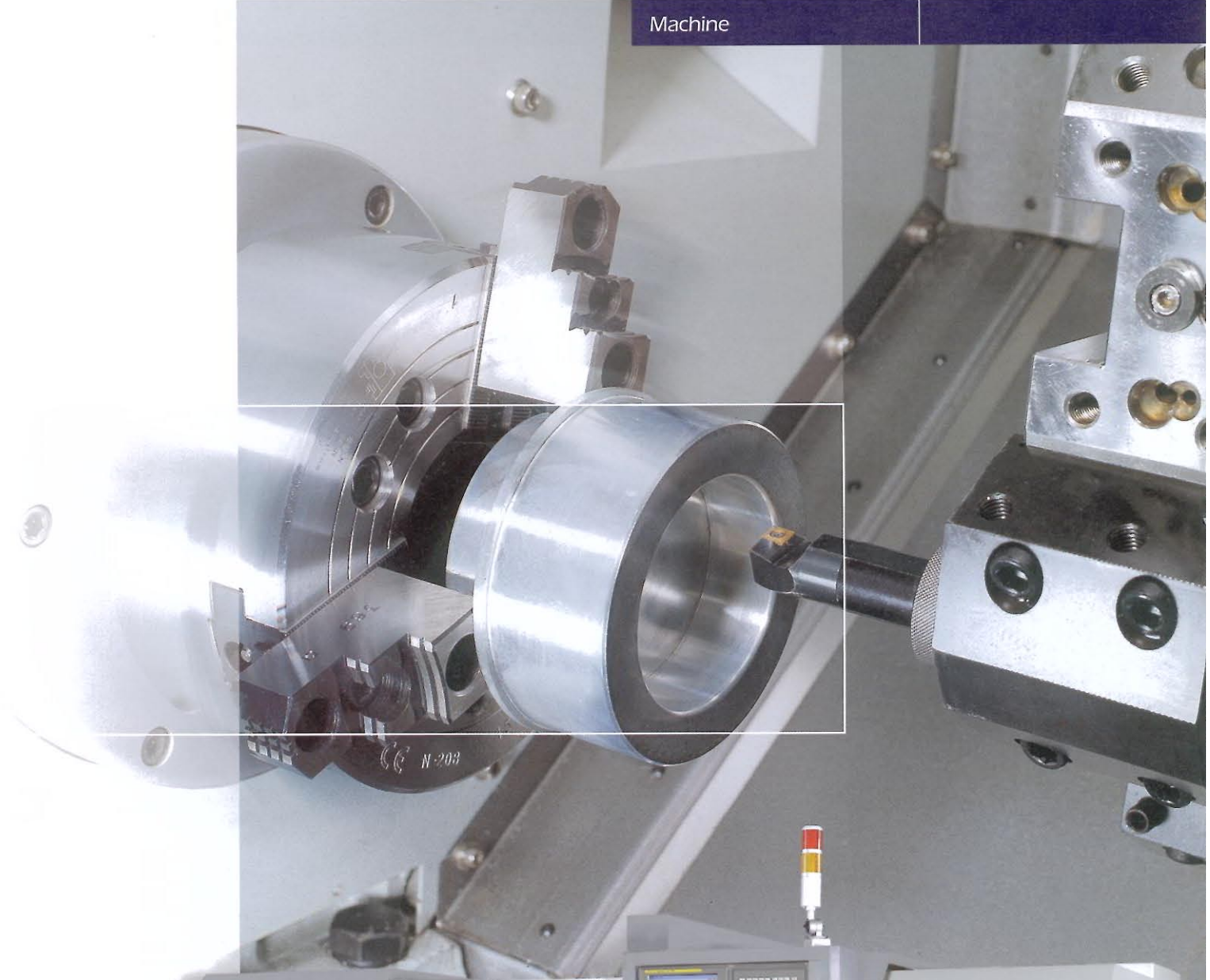
6 Tailstock/sub spindle

- One-piece structure on the machine structure to provide massive rigidity.
- Programmable tailstock available as an option.
- When equipped with sub spindle, the main and sub spindles can be synchronized for work piece handover from main to sub spindle.

Coolant and hydraulic system

- 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

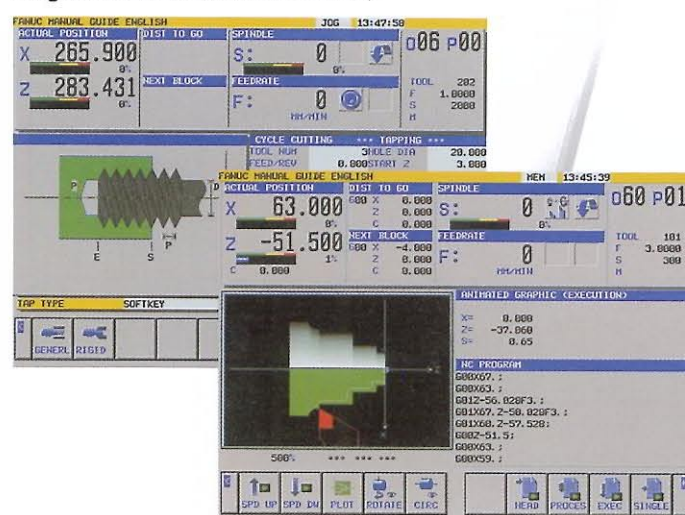
Fanuc 21iT Model B

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)

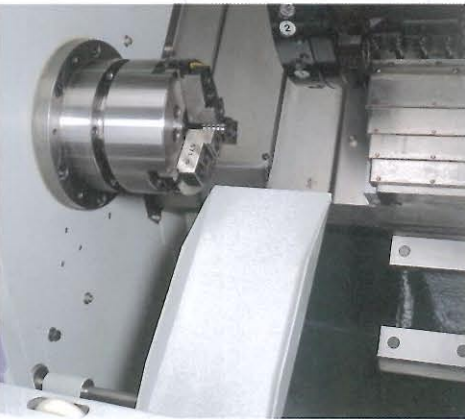


Solid model animation for lathe

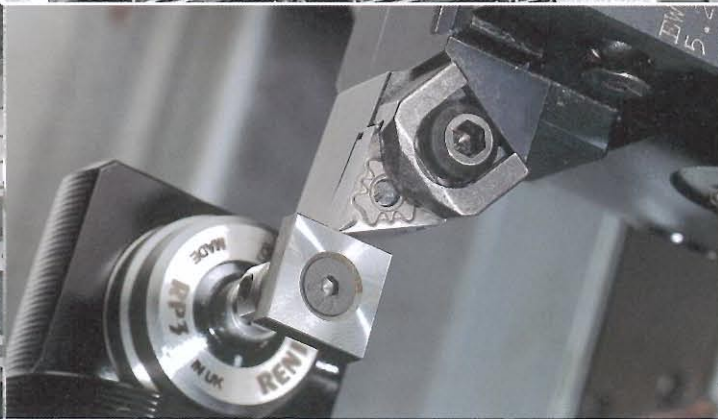
Manual Guide Oi/i conversational programming function as standard for Fanuc Oi-TC/21i-TB control.



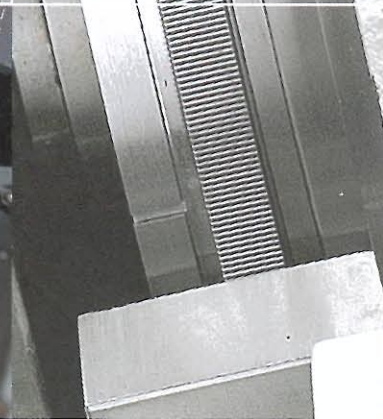
We have consider all the turning applications you might use:
Wide range of options available for your choice



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

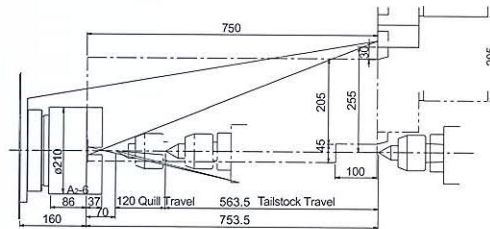
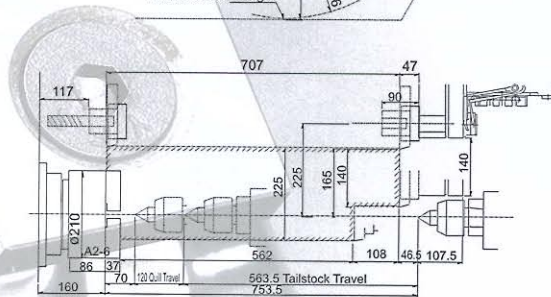
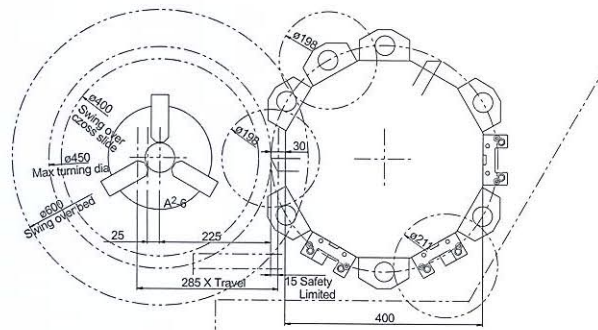
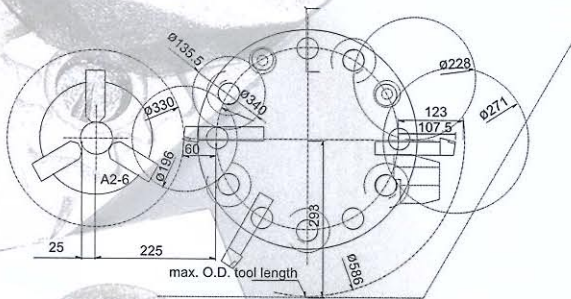
- Bar feeder
- Parts catcher
- Tool setter
- Cs-axis
- VDI turret (without tool holders)
- VDI tool holders
- Auto door
- Chip conveyor
- Chip bucket
- Transformer
- CE mark
- Programmable tailstock
- Safety torque limit clutch
- Hoisting hook package
- Levelling kit
- Bar feeder interface (LNS system)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

Tool Interference Diagram

unit:mm

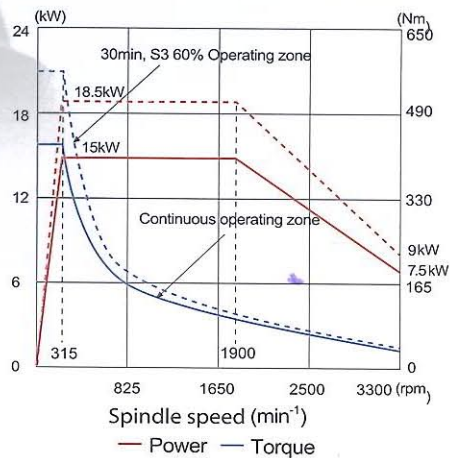
MT-310/312MC

MT-310/312



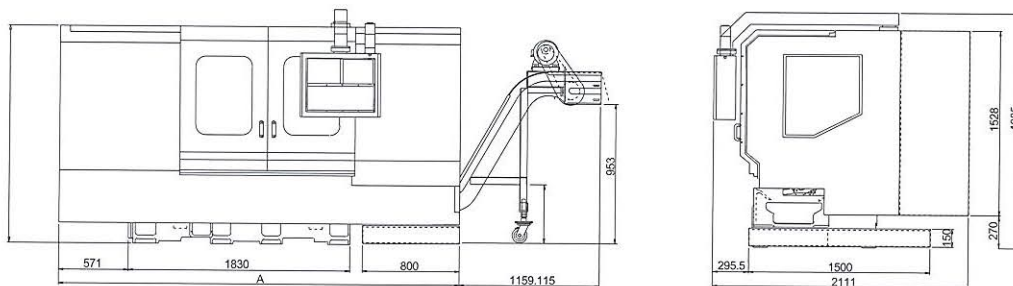
TBMA-200 | VDI 40 |

Power Diagram

MT-310/312 Spindle Capacity (α P30-6000i)

Machine Dimensions MT-308MCS/310/312

unit:mm



Z axis Spec	500	750	1000
A	2900	3300	3700

Machine Specifications

ITEM		MT-308MCS	MT-310/310MC	MT-312/312MC
SWING OVER BED	mm	600	600	600
OVER CROSS SLIDE	mm	400	400	400
MAX. TURNING DIA	mm	345	450 345	450 345
MAX. WORK LENGTH	mm	500/750/1000	490/740/990	480/730/980
DRAW TUBE BORE	mm	52	75.5	91
CHUCK SIZE	inch	8"	10"	12"
SPINDLE DRIVE MOTOR		9/11KW(main), 5.5/7.5 KW(sub)	15/18.5KW	15/18.5KW
SPINDLE SPEED RANGE	rpm	4800	4200	3300
SPINDLE NOSE	ASA	A2-6	A2-8	A2-8
THROUGH SPINDLE HOLE DIA	mm	62	90	102
FRONT BEARING DIA	mm	100	130	140
SPINDLE TAPER		1/20	1/20	1/20
MCS SUB SPINDLE SPEED	rpm	6000	-	-
MCS SUB SPINDLE NOSE	ASA	A2-5	-	-
MCS SUB SPINDLE TRAVEL	mm	700	-	-
MC .MCS SUB MILLING SPEED	rpm	4000	4000	4000
X AXIS TRAVEL	mm	225	225	225
Y AXIS TRAVEL	mm	670	-	-
Z AXIS TRAVEL	mm	520/770/1020	510/760/1010	500/750/1000
X AXIS MOTOR		3.0KW/3.8HP	3.0KW/3.8HP	3.0KW/3.8HP
Y AXIS MOTOR		3.0KW/3.8HP	-	-
Z AXIS MOTOR		3.0KW/3.8HP	3.0KW/3.8HP	3.0KW/3.8HP
X AXIS RAPID TRAVERSE	m/min	24/20 (Linear/Hardrail)	24/20 (Linear/Hardrail)	24/20 (Linear/Hardrail)
Y AXIS RAPID TRAVERSE	m/min	20 (Hardrail)	-	-
Z AXIS RAPID TRAVERSE	m/min	24/20 (Linear/Hardrail)	24/20 (Linear/Hardrail)	24/20 (Linear/Hardrail)
GUIDEWAYS		Linear/Hardrail	Linear/Hardrail	Linear/Hardrail
NO. OF TOOL STATIONS		12	12	12
SIZE OF EXTERNAL TURNING TOOL	mm	25	25	25
BORING BAR DIA	mm	40	40	40
QUILL DIA	mm	90	90	90
QUILL TRAVEL	mm	120	120	120
TAILSTOCK TRAVEL	mm	560/810/1060	560/810/1060	560/810/1060
QUILL TAPER		MT #5	MT #5	MT #5
ELECTRICAL POWER SUPPLY	KVA	30	30	40
COOLANT TANK CAPACITY	Liter	150	150	150
COOLANT FLOW	L/min	20	20	20
TOTAL HEIGHT	mm	1905	1905	1905
FLOOR SPACE	LENGTH	mm	3900/4300/4700	3900/4300/4700
	WIDTH	mm	2100	2100
NET WEIGHT	kg	4000/5000/6000	4100/5100/6100	4200/5200/6200

※ Sub-spindle available for Z axis travel = 750 mm only.

All specifications, designs and characteristics shown in this catalogue are subject to change without prior notice.
Motor specifications are based on machines with FANUC 2iit.



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06-03-02-1000-R06