

UNIVERSAL CENTRE LATHE TUJ-560MEF TUJ-630MEF



Lathes machines TUJ-560/630 MEF with Fanuc Power Oi Mate-TC control system are intended to execute general turning operations for piece and lot production. Machine rigid construction, high power of driving motor and applied rolling screw for slides drive, ensures a great capacity and machining accuracy. Control system enables work in conventional way (using manual handwheel), or semi automatic with manual correction of cutting depth for each cut and automatic by recording machining cycle, setting a cutting depth and starting the cycle. Most of the elements used by operator during turning operations is spaced on a control desk slidable along the bed. Additional display of the control desk enables simple setting of all essential parameters like: spindle speed, rate of travel, programming and cycle selection. Operator can see on the display entered parameters and tool position therefore he can go on with machining operations. Spindle speed synchronization with slidable motor revolutions in axis Z allows executing a wide range of various threads.

Typical machining cycles available:

- Machining cycle acc to inserted geometry of machined surface
- Taper cycle
- Threading cycles: outer and inner threading, outer thread repair
- Grooving cycle
- External ball cutting cycle
- Drilling and tapping cycles
- Facing cycle

Possibility of operating CNC and manual mode.

Tool selection and tool offset functions are available as well as constant cutting speed.

There also exist a possibility of connecting an external personal computer by RS-232C interface.

TECHNICAL DATA

TUJ-560 MEF TUJ-630 MEF

Length indication
L=1500 L=2000 L=3000

WORKING AREA

| | | |
|---|-----|-------------------|
| Distance between centres | mm | 1460; 1960; 2960; |
| Max. turning length | mm | 1370; 1870; 2870 |
| Swing over bed | mm | 560 630 |
| Swing over cross slide | mm | 340 410 |
| Swing in gap * | mm | 800 870 |
| Length of gap in front of driver plate * | mm | 250 |
| Top part of cradle width | mm | 370 |
| Max. weight of detail fixed in centres | kg | 300 |
| Max. weight of detail fixed in chuck Ø315 supported by tailstock | kg | 600 |
| Max. weight of detail fixed in chuck and supported by steady rest | kg | 800 |
| Suds sump capacity | dm³ | 30 |

HEADSTOCK

| | | |
|---------------------------|---------|------------|
| Spindle nose PN-ISO-702-1 | - | A8 |
| Spindle bore | mm | 90 or 105 |
| Spindle taper - metric | mm | 100 or 120 |
| Spindle speed range | rev/min | 16 - 2000 |
| Main drive motor | kW | 11 |

LONGITUDINAL AND CROSS SLIDES

| | | |
|---|--------|--------------------------|
| Cross feed "X" | mm | 325 360 |
| Longitudinal feed "Z" | mm | acc.to dist.betw.centres |
| Rapid feed of cross slide "X" axis | mm/min | 5000 |
| Rapid feed of longitudinal slide "Z" axis | mm/min | 10 000 |
| Turning moment of motor "X" axis | Nm | 6 |
| Turning moment of motor "Z" axis | Nm | 6 |

TAILSTOCK

| | | |
|--------------|---------|-----|
| Quill travel | mm | 180 |
| Quill taper | Morse'a | 5B |

OVERALL DIMENSIONS

| | | |
|--------|----|-------------------|
| Length | mm | 3190; 3690; 4690; |
| Width | mm | 1580 |
| Height | mm | 1620 |

| | | |
|--------|----|-------------------|
| Weight | kg | 3160; 3350; 3760; |
|--------|----|-------------------|

STANDARD EQUIPMENT

(included in price)

1. 3-jaw chuck Ø 315mm with spanner
2. Quick change toolpost type Haase MC (max section of lathe tool's shank 32x32)
3. Front chip guard MCD 32-150
4. Driver
5. Chuck guard
6. Complete coolant system with electric pump
7. Lamp
8. Levelling plates
9. Foundation bolts with washers and nuts
10. Reduction sleeve
11. Dead centre PZKa 5
12. Dead centre PZKa 6
13. Rotary center with Morse taper no. 5
14. Two-sided spanners RWPd 8x9, 10x12, 13x17, 19x22, 24x27, 30x32
15. Arbor spanner RWTg 5
16. Oiler
17. Screw-down grease cup ¼ I with Ø1-1,5 end
18. Can with paint (colour of tool machine)
19. Operation manual and spare parts catalogue
20. Foil cover with a base

OPTIONAL EQUIPMENT

(available at additional cost)

1. Replaceable tool holder - MCD 32-170
2. Replaceable tool holder - MCJ 50-160
3. Replaceable tool holder - MCH 40-160
4. Reduction sleeve MCL 3-50
5. Reduction sleeve MCL 4-50
6. Boring rod MCM 30-300-12
7. Four-way toolpost with holder
8. Undercutting toolpost
9. Steady rest Ø15-250mm
10. Roller jaw steady rest, Ø10-150mm Ø60-250, Ø190-380 **
11. Follow rest Ø15-250
12. Face plate with T-slots
13. 4-jaw chuck Ø400mm with independent jaws
15. Arbor spanners RWTg 6, 8, 14
16. Spanner for round nuts RWPg 28-32

** for TUJ-560MEF

SPECIAL VERSION

- * 1. Cradle with a bridge

Note:

Some of the standard and optional equipment is mounted on the lathe.

We reserve all rights to bring changes without notifying.

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