

UNIVERSAL CENTRE LATHE TUJ-560MEF TUJ-630MEF



TUJ-560/630 MEF lathes machines with Fanuc Oi TF control system are intended to execute general turning operations for one off's and series production. Machine's rigid construction, high power of driving motor and ball screws for slides drive, ensure a great capacity and machining accuracy. Control system enables work in conventional way (using manual handwheel), 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 panel slidable along the bed. Additional display of the control panel 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- option | mm | 800 870 |
| Length of gap in front of driver plate - option | 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 315 supported by tailstock | kg | 600 |
| Max. weight of detail fixed in chuck and supported by steady rest | kg | 800 |
| Suds sump capacity | dm ³ | 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 „C”
3. Front chip guard MCD 32-150 - 3 pc.
4. Replaceable tool holder MCH40x160 - 1pc.
5. Electronic handwheel for manual operation
6. Chuck guard
7. Complete coolant system with electric pump
8. Lamp
9. Rotary center with Morse taper no. 5
10. Set of spanners
11. Operation manual and spare parts catalogue
12. CE declaration
13. Rotary center with Morse taper no. 5
14. Power supply 3x400V, 50Hz
15. Levelling plates
16. Foundation bolts with washers and nuts
17. Foil cover with a base

OPTIONAL EQUIPMENT

(available at additional cost)

1. Steady slide rest (Ø15-250 mm)
2. Roller jaw steady rest, (Ø60-250 mm)
3. Roller jaw steady rest, (Ø10-150 mm)
4. Follow rest (Ø15-250 mm)
5. Roller jaw steady rest (Ø190-380 mm)*
6. Face plate Ø 560mm with T-slots
7. 4-jaw chuck Ø400mm with independent jaws
8. Start-up and training within machine operation at customer site (one day + traveling costs)
9. Machine transportation to the customer (counted both ways).
10. Cradle with a bridge
11. Four-way toolpost alternative to quickchange toolpost - optional
12. 8-station tool turret

* for TUJ-630MEF

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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