

MANURHIN K'MX 432

Innovative technology







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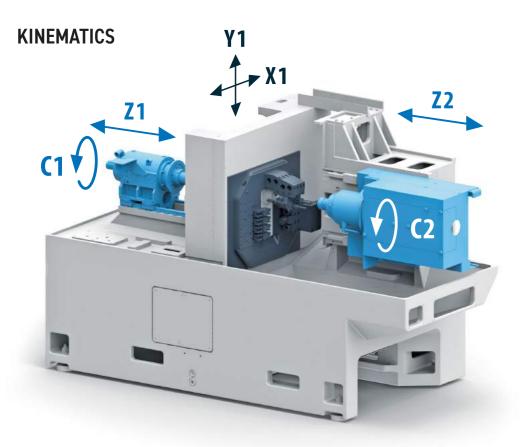


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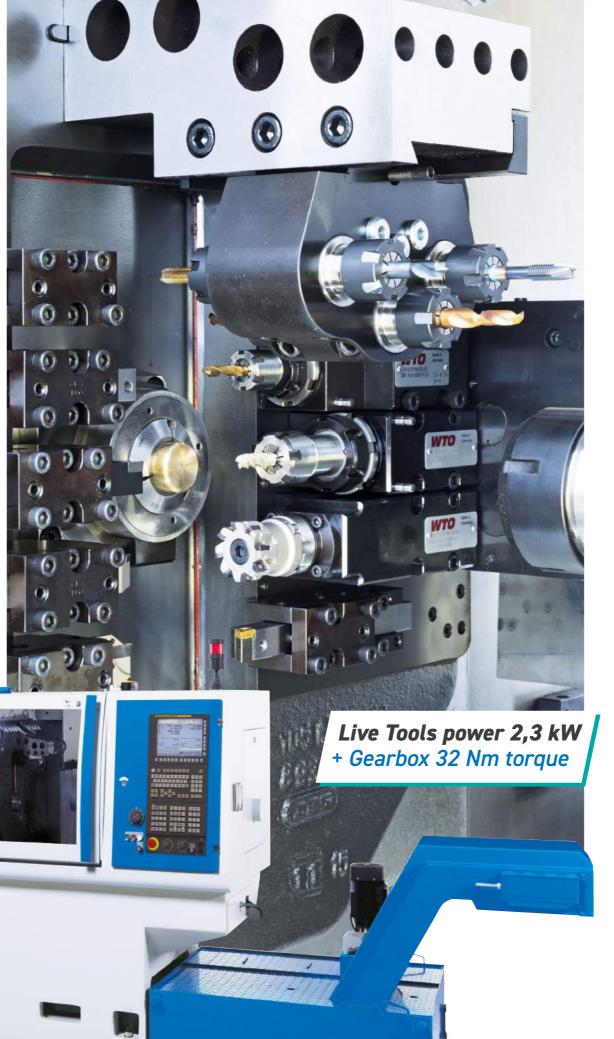
Sliding headstock automatic lathe MANURHIN K'MX 432 is designed for productive machining of parts from the bars of maximum diameter 32 mm. As the spindle bore diameter is 37 mm, there is no modification of the end of the bar for bar feeder collet needed.

Machine is equipped in standard with two electro spindles with maximum speed 10 000 rpm each and with rotary guide bush synchronized by pulleys and belts with main spindle. Four linear CNC axes (X1, Y1, Z1, Z2) and two rotary axes (C1, C2) enable to machine with high productivity the simple as well as complex parts.



SPINDLE BRAKES

Electro spindles are in standard equipped by electromagnetic brake, which could be not always sufficient enough in relation to powerful drilling or milling by motorized tools. Because of this reason we recommend to use optional jaw brakes with wheel, which firmly fix the spindles in their position.



MANURHIN KMX[®]

Optionally the machine can be equipped with motorized tools on rear or frontal part of the tool rack. The stroke of the main spindle enables to use the machine for turning of shafts up to 400 mm on one clamping. Longer shafts are possible to be made with multiple clamping.

The easy setup of tools on tool rack enables the successful use of this machine for the batches starting by hundreds of pieces.

CONTROL SYSTEM FANUC

The latest CNC control system from Japanese company Fanuc with color 10,4" monitor enables to operator easy programming in ISO code. All screens are possible to be switched into requested languages. Transfer of part programs from the PC is possible to be done by USB, by PCMCIA card, by RS232 interface or by Ethernet.





PART COLLECTION AND EVACUATION

Pneumatically controlled arm with bucket is operated by M-function. The arm is easy to set up and enables the parts catching from both main and counter spindle, just as needed by operator. The bucket fits for the parts up to 170 mm. Longer parts are possible to be evacuated through the counter spindle. The bucket can be modified according to shape of part.

The part is evacuated by arm with bucket outside the covers of the machine. This enables immediate manipulation with the part and immediate measuring without the need to stop the machine.



MACHINE PARAMETERS

Maximum bar diameter – main spindle Maximum length of turning on one stroke

Main spindle bore

Power (100% / 25%) of main spindle Maximum speed of main spindle

Spindle direction
Main spindle stroke
Rapid feed of main spindle
Number of tool racks

Tool rack – horizontal stroke X1 Rapid feed of horizontal stroke Tool rack – vertical stroke Y1 Rapid feed of vertical stroke Tool positions (turning)

Tools shank size OD operations

Counter spindle stroke

Rapid feed of counter spindle

Maximum bar diameter – counter spindle

Maximum length of part inside the counter

spindle for frontal ejection

 \emptyset 32 (* \emptyset 36) mm Maximum length of part for frontal ejection

400 mm Counter spindle bore

 \emptyset 37 mm Maximum speed of counter spindle 5.5 / 7.5 kW Power (100% / 30 min) of counter spindle

10 000 rpm Evacuation of parts through the counter spindle

Left and right (for parts max. Ø 26 mm)
410 mm Air pressure required

30 m/min Air connection by "Banjo" coupling

1 Coolant tank capacity

80 mm Flowrate

30 m/min Coolant pump pressure

191 mm Voltage
30 m/min Power input
(2 x 5): 10 Cable section
16 x 16 mm CNC control system
300 mm MACHINE DIMENSIONS

30 m/min MACHINE WEIGHT

Ø 32 (*Ø 36) mm

150 mm * optional modification on request

170 mm Ø 37 mm 10 000 rpm 3,7 / 5,5 kW

Optional
6 bar
Ø 10 mm
300 l
100 l/min
5,5 bar

3 x 400 V - 50 Hz

32 kVA 16 mm2 FANUC

3 000 x 1 460 x 1 860 mm

4 500 kg

COLLETS AND GUIDE BUSHES

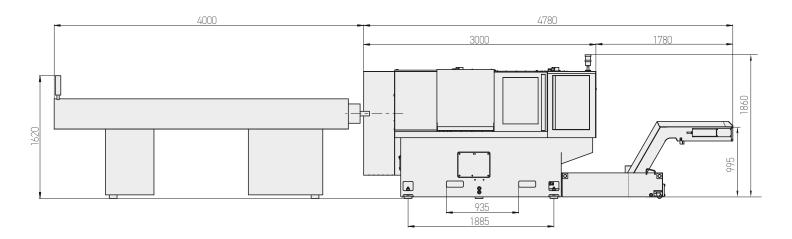


On MANURHIN K'MX 432 we use for both main and counter spindle the collets of type 164E (F38) and we recommend steel ultra-precision collets from well-established collets manufacturers. Usually are used grooved collets or smooth collets or collets with longer nose (LN)



On MANURHIN K'MX 432 we use the guide bushes of type T229 denomination. We recommend the guide bushes with hard metal insert from renowned manufacturers.

MACHINE DIMENSIONS



CONTACT

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