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# MANURHIN K'MX 532TREND

Innovative technology



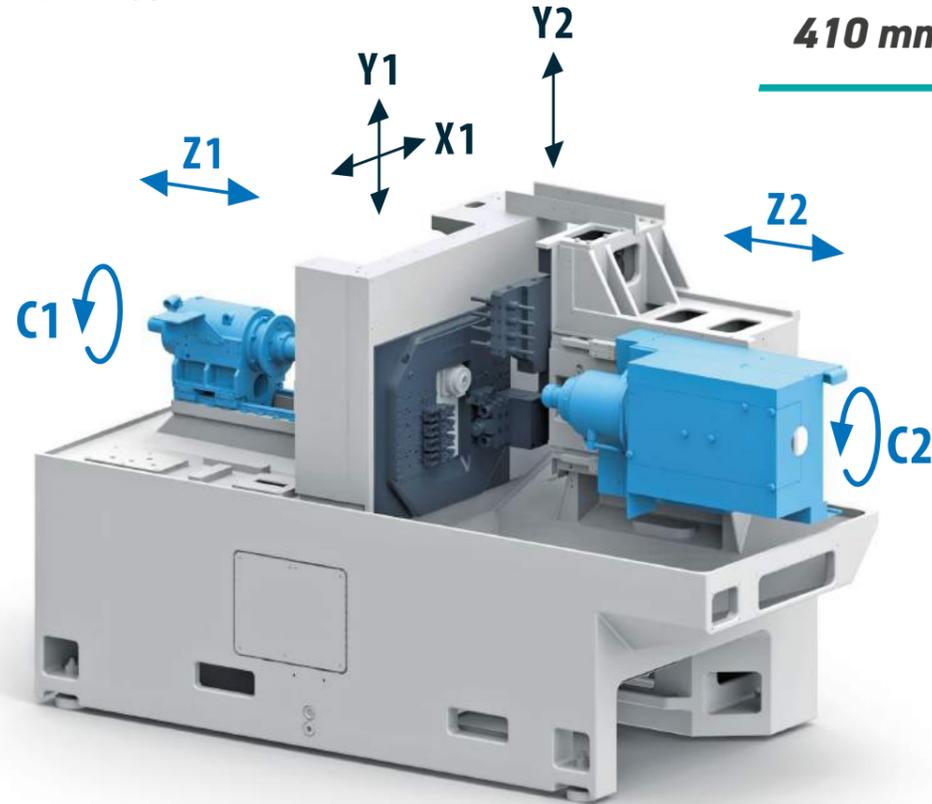
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Sliding headstock automatic lathe MANURHIN K'MX 532 TREND is designed for productive machining of parts from the bars of maximum diameter 32 mm. As the spindle bore diameter is 37 mm, there is no modification of the end of the bar for bar feeder collet 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. Five linear CNC axes (X1, Y1, Y2, Z1, Z2) and two rotary axes (C1, C2) enable to machine with high productivity the simple as well as complex parts.

## KINEMATICS



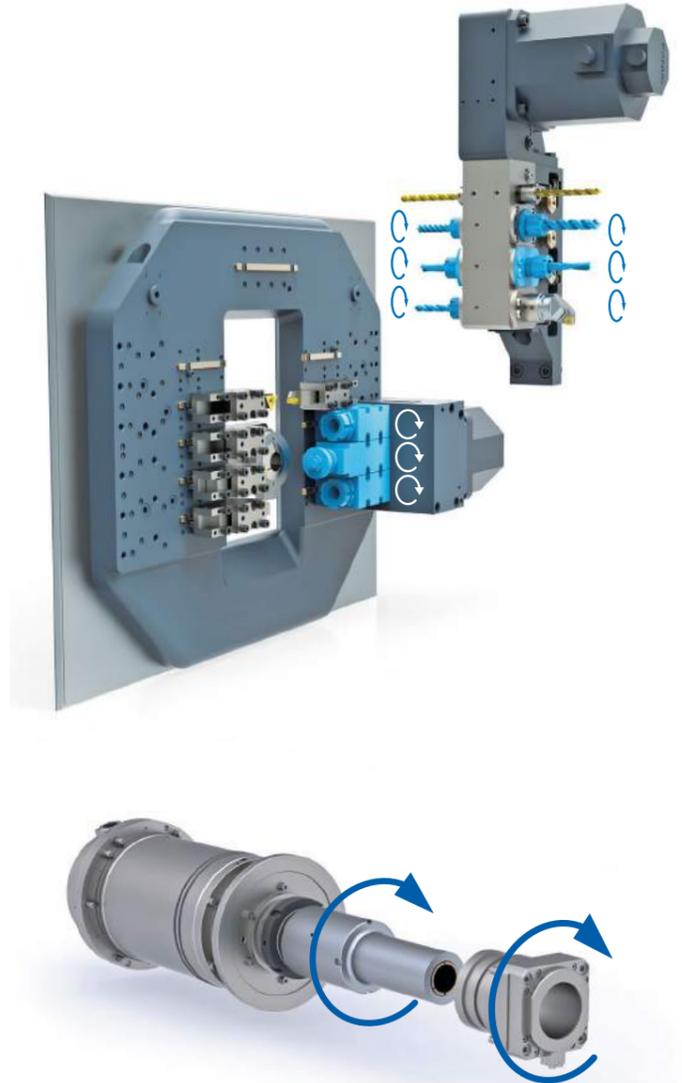
**410 mm spindle stroke!**



**MANURHINKMX®**

Optionally the machine can be equipped with motorized tools on rear or frontal part of the tool rack. Eventually for extra axial drilling. 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.

MANURHIN K'MX 532 TREND is typically delivered with automatic bar feeder with encoder and magazine for 3m bars. The parts over 170 mm long are possible to be evacuated from the machine only through the counter spindle. The maximum length of the part is limited theoretically only by the length of the bar. The easy setup of tools on tool rack enables the successful use of this machine for the batches starting by hundreds of pieces.



## CLAMPING WITHOUT GUIDE BUSH

Optionally it is possible to main spindle with special longer nose type clamping for collets, which is capable to enter working area through the hole for guide bush. This option can be used for short parts if the guide bush is not necessary. Customer can get shorter bar remnant.

## MACHINE PARAMETERS

Maximum bar diameter – main spindle	Ø 32 (*Ø 36) mm	Maximum length of part inside the counter spindle for frontal ejection	150 mm
Maximum length of turning on one stroke	400 mm	Maximum length of part for frontal ejection	170 mm
Main spindle bore	Ø 37 mm	Counter spindle bore	Ø 37 mm
Power (100% / 25%) of main spindle	5,5 / 7,5 kW	Maximum speed of counter spindle	10 000 rpm
Maximum speed of main spindle	10 000 rpm	Power (100% / 30 min) of counter spindle	3,7 / 5,5 kW
Spindle direction	Left and right	Evacuation of parts through the counter spindle (for parts max. Ø 26 mm)	Optional
Main spindle stroke	410 mm	Air pressure required	6 bar
Rapid feed of main spindle	30 m/min	Air connection by "Banjo" coupling	Ø 10 mm
Number of tool racks	1	Coolant tank capacity	300 l
Tool rack main – horizontal stroke X1	80 mm	Flowrate	100 l/min
Rapid feed of horizontal stroke	30 m/min	Coolant pump pressure	5,5 bar
Tool rack main – vertical stroke Y1	191 mm	Voltage	3 x 400 V – 50 Hz
Rapid feed of vertical stroke	30 m/min	Power input	32 kVA
Tool rack axial – vertical stroke Y 2	260 mm	Cable section	16 mm <sup>2</sup>
Rapid feed of axial tool rack	30 m/min	CNC control system	FANUC 0i
Tool positions (turning)	(2 x 5) + (2 x 4)	MACHINE DIMENSIONS	3 000 x 1 460 x 1 860 mm
Tools shank size OD operations	16 x 16 mm	MACHINE WEIGHT	4 500 kg
Counter spindle stroke	300 mm		
Rapid feed of counter spindle	30 m/min		
Maximum bar diameter – counter spindle	Ø 32 (*Ø 36) mm	* optional on request	

## COLLETS AND GUIDE BUSHES

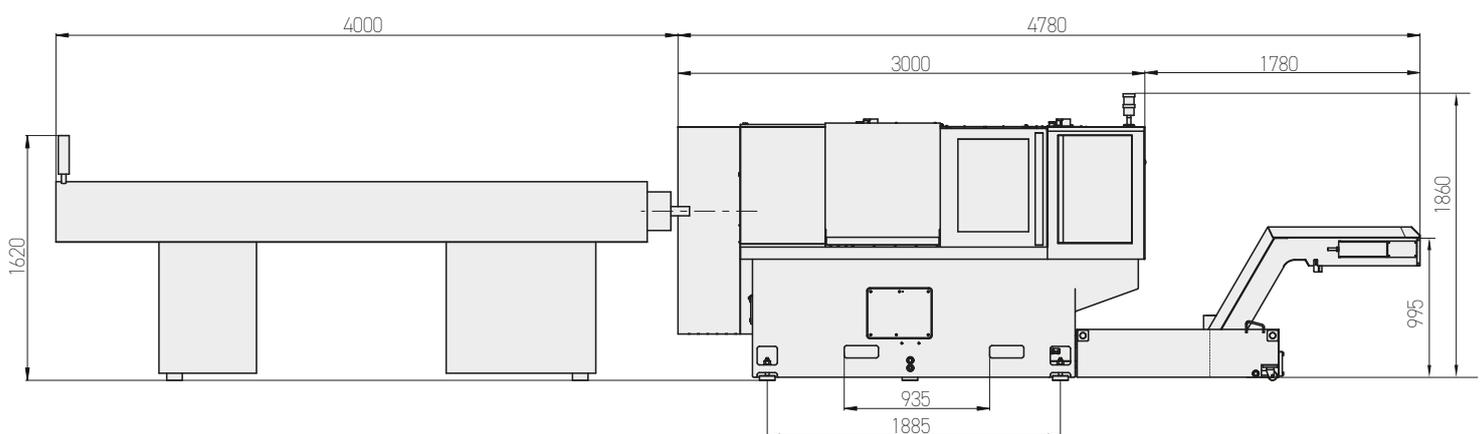


On MANURHIN K'MX 532 TREND we use for both main and counter spindle the collets of type 164E (F38) and we recommend steel ultra-precision collets from well-established collets manufacturers. Usually are used grooved collets or smooth collets or collets with longer nose (LN)



On MANURHIN K'MX 532 TREND 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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