

MACHINE PARAMETERS

Maximum bar diameter – main spindle	Ø 32 (*Ø 36) mm	Rapid feed counter spindle Y4	24 m/min
Maximum length of turning on one stroke	400 mm	Maximum diameter of bar – counter spindle	Ø 32 (*Ø 36) mm
Main spindle bore	Ø 37 mm	Maximum length of part inside the counter spindle	160 mm
Power of A.C. motor (100% / 25%)	15 / 25 kW	Maximum length of part for frontal ejection	200 mm
Maximum spindle speed	8 000 ot/min	Counter spindle bore	Ø 37
Spindle direction	Left and right	Maximum speed counter spindle	10 000 ot/min
Main spindle stroke Z1	410 mm	Power of secondary spindle motor (100 % / 30 min)	3,7 / 5,5 kW
Number of tool racks near guide bush	2	Air pressure	6 bar
Number of OD tools near guide bush	(2 x 5) : 10	Tank capacity	300 l
Rapid feed of main spindle Z1	30 m/min	Coolant pump pressure	5,5 bar
Rapid feed of horizontal stroke X1, X2	30 m/min	Voltage	3 x 400 V – 50 Hz
Rapid feed of vertical stroke Y1, Y2	30 m/min	Power	42 kVA
Tools shank size OD operations	16 x 16 mm	CNC	FANUC
Rapid feed of end working tool rack Y3	24 m/min	Number of programming channels	3
Number of tools - end working tool rack	6	MACHINE DIMENSIONS mm	3 050 x 1 460 x 2 020
Rapid feed of end working tool rack Z3	30 m/min	MACHINE WEIGHT	4 950 kg
Counter spindle stroke Z2	260 mm		
Rapid feed counter spindle Z2	30 m/min		

* optional on request

COLLETS AND GUIDE BUSHES

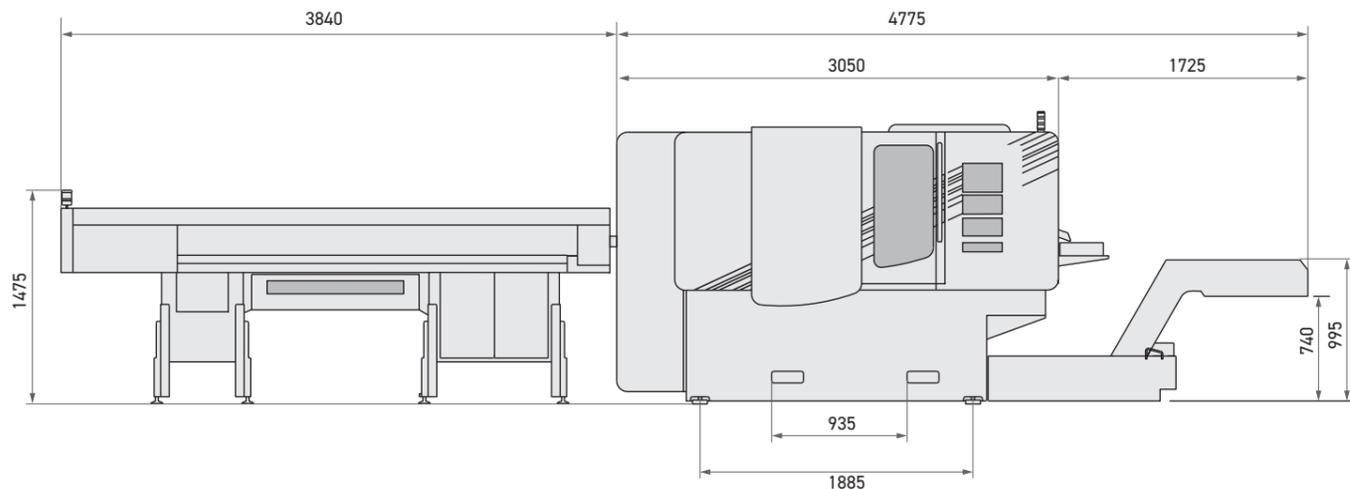


On MANURHIN K'MX 1032 SWING we use for both main and counter spindle the collets of type 164E (F38) and we recommend steel ultra-precision collets from well-established collets manufacturers. Usually are used grooved collets or smooth collets or collets with longer nose (LN)



On MANURHIN K'MX 1032 SWING we use the guide bushes of type T229 denomination. We recommend the guide bushes with hard metal insert from renowned manufacturers.

MACHINE DIMENSIONS



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Specifications and illustrations may not always correspond with the machine latest version.

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MANURHIN K'MX 1032

Innovative technology



MANURHIN K'MX 1032



Innovative technology

The swiss automatic lathe MANURHIN K'MX 1032 is designed for productive machining of parts from bar of diameter 32 mm. Due to the 37 mm spindle bore, it is not necessary to adjust the bar ends to a smaller diameter for clamping the bar by the bar feeder collet. With the adjustment of the end of the bar to the size 32mm it can handle a bar diameter up to 36 mm.

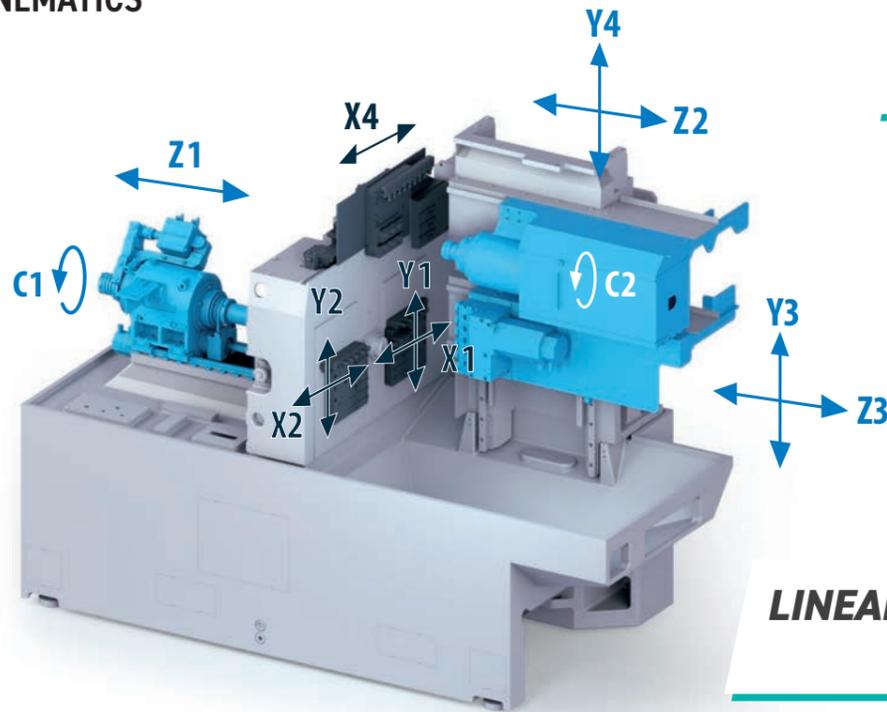
The machine is equipped with a powerfull main electro-spindle of 15/25 kW, a counterspindle reaching up to 10,000 rpm, a rotating guide bush, synchronized with the main spindle. Ten (10) controlled linear axes for six movable slides plus two (2) rotary axes (C1, C2) allow you to machine simpler and more complex parts with up to four (4) tools simultaneously.

Optionally, the machine can be equipped with up to 17 driven tools on four independent tool racks. The headstock stroke can be used for turning up to 400 millimeter long parts in one stroke.

The machine works with an automatic bar loader for at least three-meter bars with encoder and with a magazine for bars. Parts over 170 mm can optionally be routed through the contra spindle. The length of the workpiece in this type of machine is essentially limited only by the length of the bar.

The easy installation of tools on tool racks allows the successful use of this machine for batches starting from hundreds of parts.

KINEMATICS



4 TOOLS IN CUT
in one time!

Live Tools power 2,3 kW
+ Gearbox 32 Nm torque

LINEAR GUIDEWAYS
with rollers!

15/25 kW spindle motor!

EXTRA STRONG CLAMPING

Main headstock is fitted with electro spindle of maximum power 15/25 kW. Clamping of the main spindle is performed by strong pneumatic cylinder from SMC Company, which is providing enough clamping power for extreme turning conditions. Higher stiffness requirements of whole assembly are resolved by robust linear guides with rollers.

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.

PNEUMATICS

The machine MANURHIN K'MX 1032 requires the pressure 6 bars and one time air flow of 350 l/min for function of air blasting of counter spindle collet. Pneumaticaly is controlled also clamping, parts catching and bar feeder.

