

MANURHIN K'MX 413

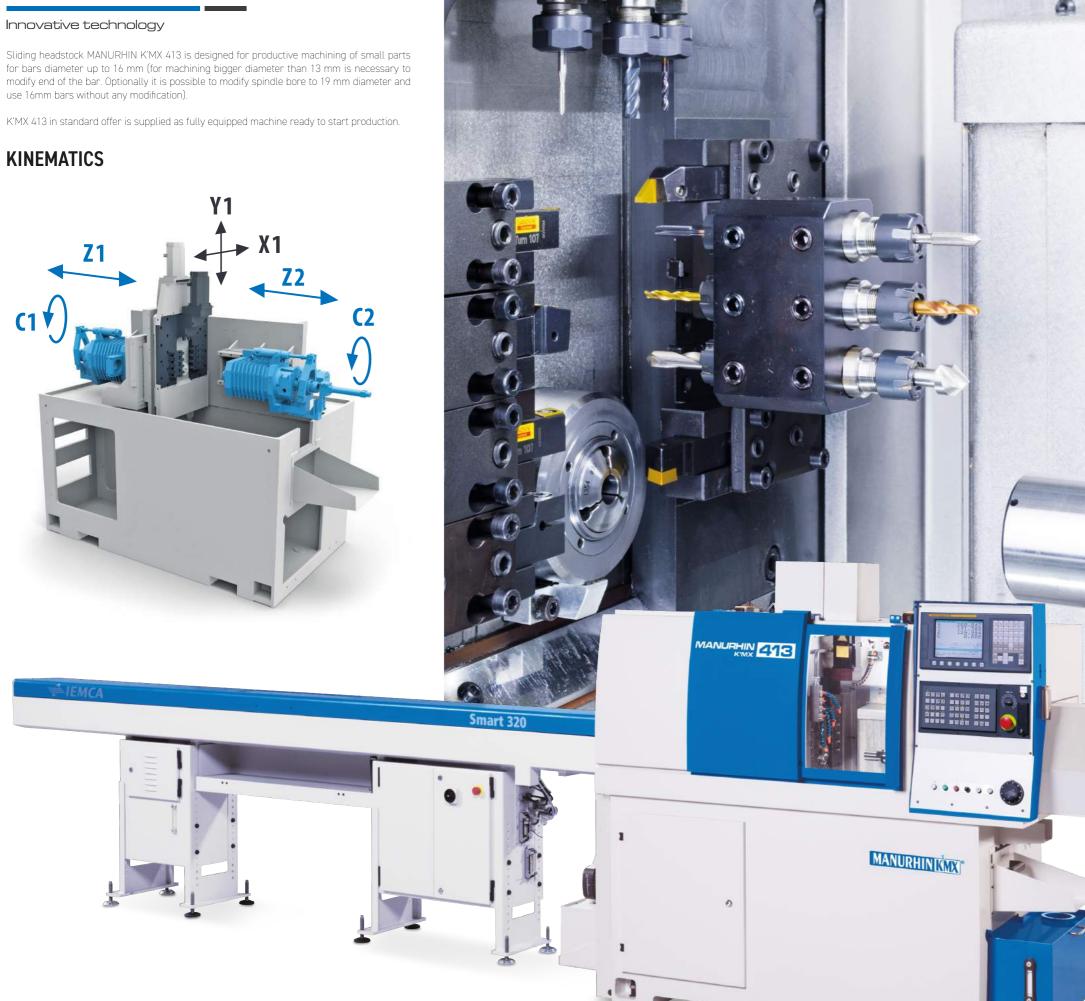
Innovative technology







MANURHIN K'MX 413





Standard equipment includes counter spindle, live tools and bar feeder. Simple kinematics and last generation of CNC are providing easy and fast programming and set up.

With 2 electro spindles, 3 powered tools, C-axis on both spindles and up to 12 fixed tools, the K'MX 413 is also able to machine complex parts. The machine, offers an economical, reliable and simple solution.



PART COLLECTION

A pneumatic part catcher is programmed by 'M' function. The finished part is ejected from the counter spindle or can be collected directly from guide bush after cut off. Then the part slips into a part collecting drawer on the ride side of the machine.

TOOLS FOR INTERNAL MACHINING

The cutting tools are installed on a tool holder block with 6 stations (boring \emptyset 16 mm). This block occupies two positions on rack and allows simultaneous axial operations on both spindles.





MACHINE PARAMETERS

130 mm Max. machining length on one feeding Maximum speed on 1 stations 2 600 rpm Spindle bore Ø 18 (19) mm Counter spindle stroke 150 mm 25 m/min Ø 13 (16) mm Bar capacity Rapid speed Ø 16 mm Ø 13 (16) mm Maximum bar capacity Bar capacity Power of electrospindle motor (100% / 30 min) 3.7 / 5.5 kW Maximum bar capacity Ø 16 mm 12 000 rpm Maximum speed of main spindle 12 000 rpm Maximum speed of counter spindle Spindle direction Left and right Power of electro spindle motor (100% / 30 min) 2.3 / 3.7 kW Main spindle stroke 130 mm Maximum length of part inside the spindle 95 mm 25 m/min Maximum length of part for frontal ejection 130 mm Rapid feed of mine spindle Horizontal stroke of slide X1 2 x 30 mm Evacuation of parts through the counter spindle Optional Rapid feed of horizontal stroke 25 m/min Air pressure required 6 bar Air connection by "Banjo" coupling Ø 10 mm Vertical stroke of slide Y1 135 mm Rapid feed of vertical stroke 25 m/min Coolant tank capacity 120 L Number of external tool stations (max.) 8 63 l/min Flowrate Tools shank size OD operations 12 x 12 mm Coolant pump pressure 3 bar Number of internal tool stations (max.) 3 Voltage 3 x 400 V - 50 Hz Boring for ID tool shank Ø 16 mm Power input 26 Kva FANUC Number of powered tools 3 CNC control system 2 350 x 1 050 x 1 784 mm Collet size ER 11 / ET 1 - 12 MACHINE DIMENSIONS

MACHINE WEIGHT

COLLETS AND GUIDE BUSHES



Maximum speed on 2 stations

On MANURHIN K'MX 413 we use for both main and counter spindle the collets of type 136E (F20) 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)

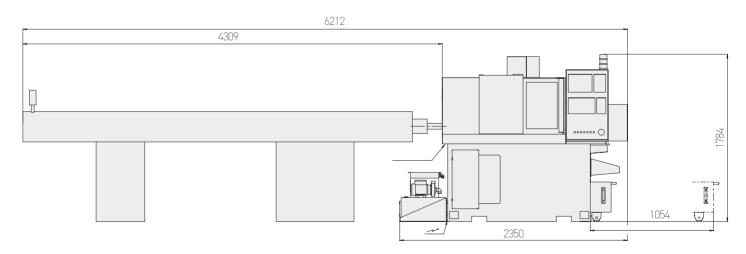
8 000 rpm



On MANURHIN K'MX 413 we use the guide bushes of type I 354 (J7A) denomination. We recommend the guide bushes with hard metal insert from renowned manufacturers

2 000 kg

MACHINE DIMENSIONS



CONTACT

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