

MANURHIN K'MX 620

Innovative technology



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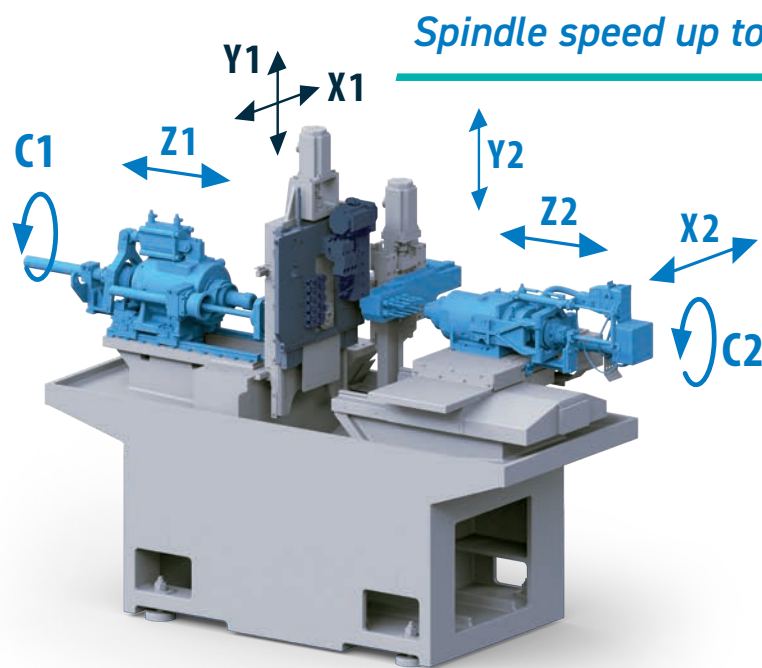
Innovative technology

MANURHIN K'MX 620 is supplied as a fully equipped machine in its standard configuration and is immediately ready for machining. The sub-spindle and driven tools are included in the standard package, as well as the bar feeder. Its lightweight kinematics and the latest generation CNC ensure easy and fast programming while reducing setup times.

With two motor spindles, driven tools for both spindles, C-axes, and the ability to machine simultaneously on both spindles, the machine is capable of highly productive machining of complex parts from bar stock up to 20 mm in diameter.

With this machine, MANURHIN K'MX offers its customers an economical, reliable, and user-friendly solution with an outstanding price-to-performance ratio.

KINEMATICS

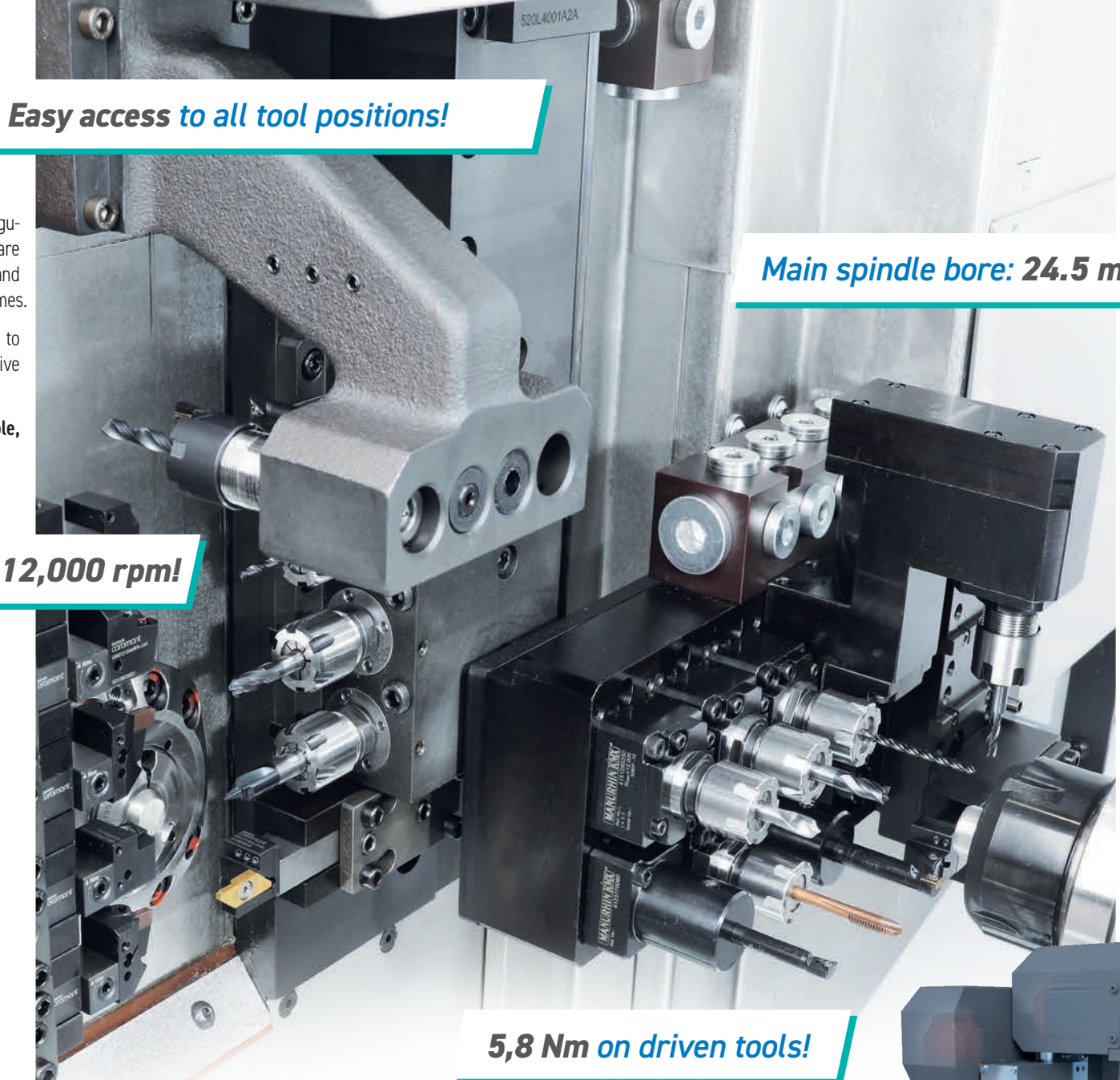


Spindle speed up to 12,000 rpm!

8,000 rpm on driven unit

Linear axis acceleration:

X1: 8,6 m/s ²	X2: 10,4 m/s ²
Z1: 8,6 m/s ²	Z2: 8,6 m/s ²
Y1: 10,4 m/s ²	Y2: 13,0 m/s ²

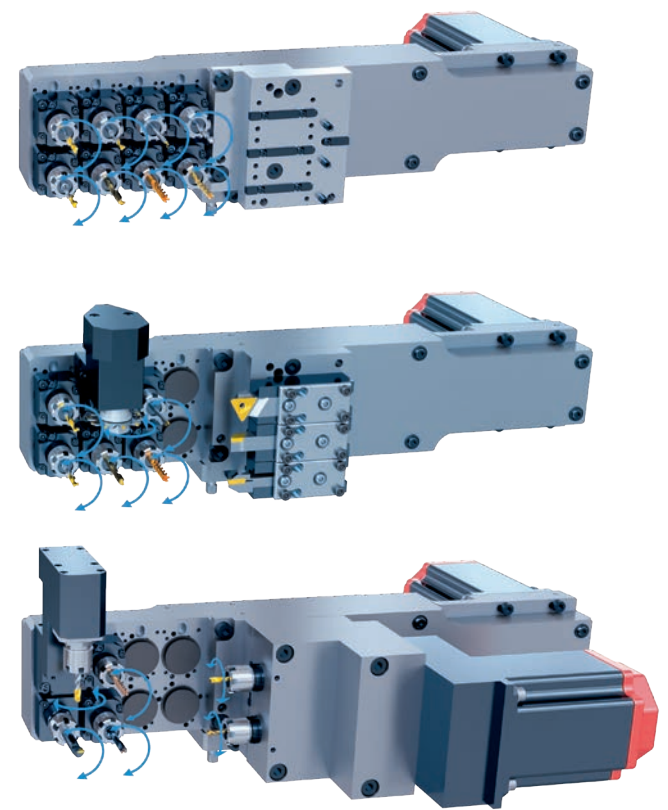


Main spindle bore: 24.5 mm

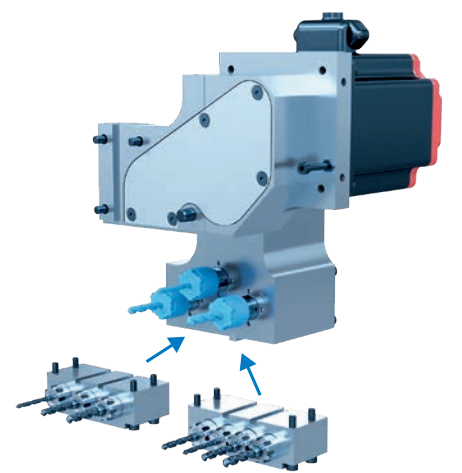
5,8 Nm on driven tools!

Optional Driven - Tool Solutions

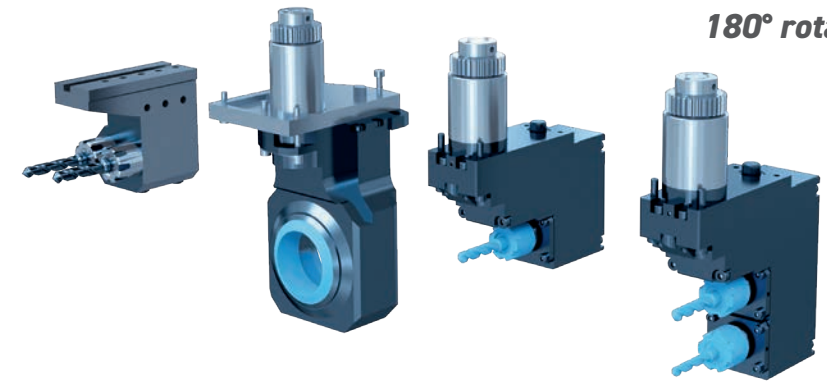
Up to 8 driven or up to 8 fixed positions.



180° rotated view



180° rotated view



PARAMETERS

Maximum bar diameter – main spindle	Ø 20 mm
Maximum machining length per stroke	200 mm
Main spindle bore	24,5 mm
Main motor spindle power (100% / 25%)	3,7 / 5,5 kW
Maximum spindle speed – main spindle	12 000 rpm
Spindle rotation direction	left and right
Stroke of the main spindle headstock	210 mm
Number of tool slides	2
Tool slide travel – horizontal X1	60 mm
Tool slide travel – vertical Y1	167 mm
Cross slide travel – horizontal X2	240 mm
Cross slide travel – vertical Y2	66 mm
Number of tools – main slide	(2 x 5) + (2 x 4)
Number of tools – cross slide	8+3
Tool size for external turning	12 x 12 mm
Sub-spindle stroke	210 mm
Rapid traverse for all axes	25 m/min
Maximum bar diameter – sub-spindle	Ø 20 mm
Maximum workpiece length for front ejection	140 mm
Sub-spindle bore	Ø 21 mm

**optional equipment*

Maximum spindle speed – sub-spindle	12 000 rpm
Sub-spindle motor power (100% / 30 min)	2,2 / 3,7 kW
Workpiece evacuation through sub-spindle (for workpieces up to max. Ø 17 mm)	optional
Driven tool power	1 kW
Maximum speed of driven tools	8 000 rpm
Max. Torque OT1, OT5 *	5,5 Nm
Max. Torque OT2 *	5,8 Nm
Max. Torque OT3 *	5,8 Nm
Max. Torque OT4	4,8 Nm
Air pressure	6 bar
Connection coupling	10 mm
Tank capacity	150 l
Flow rate	45 l/min
Coolant pump pressure	3 bar
Voltage	3 x 400 V – 50 Hz
Power consumption	26 kVA
Wire diameter	10 mm ²
CNC control system	FANUC Oi-TF Plus

MACHINE DIMENSIONS

1 980 x 1 230 x 1 813 mm

MACHINE WEIGHT

2 300 kg

COLLETS AND GUIDE BUSHES



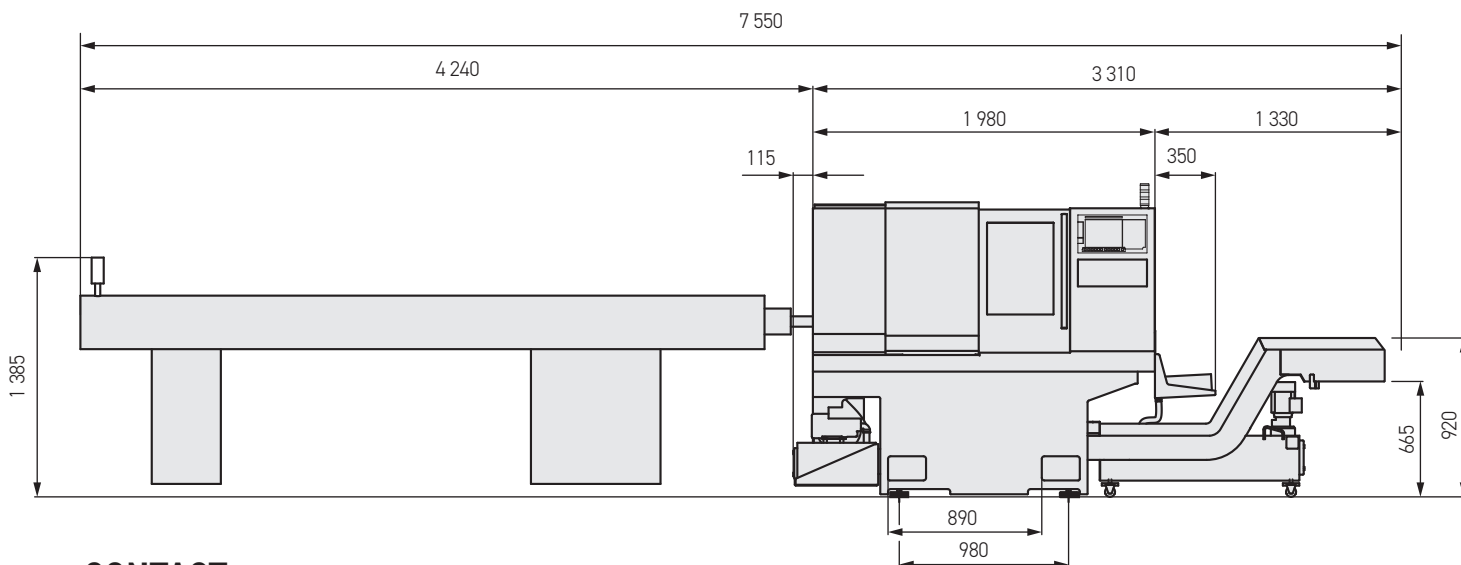
For the K'MX 620, the main spindle is equipped with collets type F28 (DIN 6343 Type 148E) or F25 (DIN 6343 Type 145E). The sub-spindle uses collets type F25 (DIN 6343 Type 145E).

We recommend ultra-precision steel collets from reputable specialized manufacturers, available in knurled, smooth, or extended nose (LN) versions.



For the K'MX 620, we use guide bushes type i357 (Schlenker). We recommend guide bushes with carbide inserts from reputable specialized manufacturers.

MACHINE DIMENSIONS



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Illustrations and technical data are subject to change without notice.