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MANURHIN K'MX SWING

Innovative technology



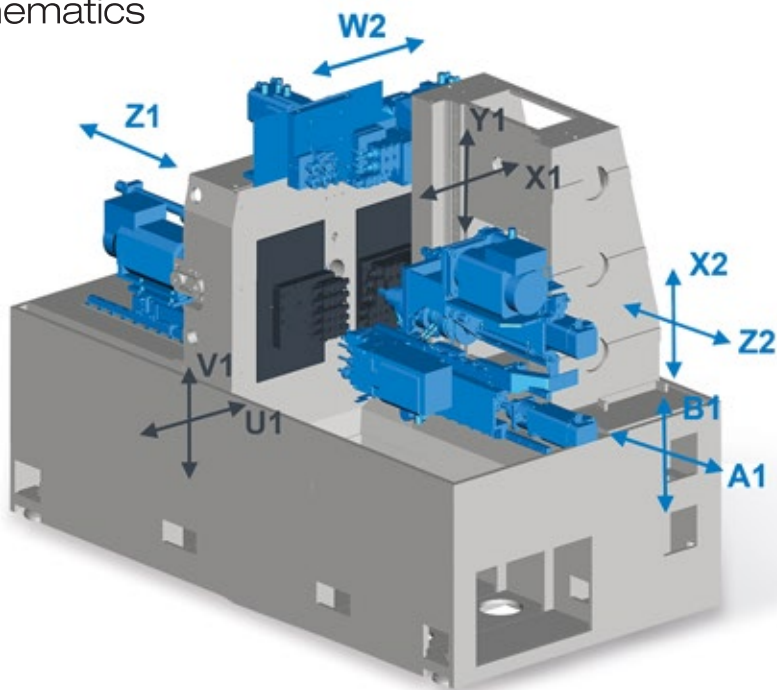
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K'MX SWING is designed for machining complex parts from rod material up to 26mm (32*) mm. K'MX SWING machines enable machining a workpiece with up to 4 tools simultaneously and sliding headstock with heave of 250 mm enables to machine simultaneously several parts in a row on a single clamping of collet. Fast transfer from one part to another enables up to 23 tool positions. Because 14 of these positions can be driven, the machine can ready machine also the most complex parts in its richest equipment, which many companies today machine in several operations at various types of machine tools.

**necessary to adjust end of the bars to Ø29mm*

Kinematics



Fanuc CNC control system

Latest Fanuc CNC control system with integrated PC operating on MS Windows with a color screen 10.4 " makes it easy for programming in ISO code. All screens are possible to be switched into requested language. Transfer of the part programs from the PC is possible to be done by USB, PCMCIA card or LAN.



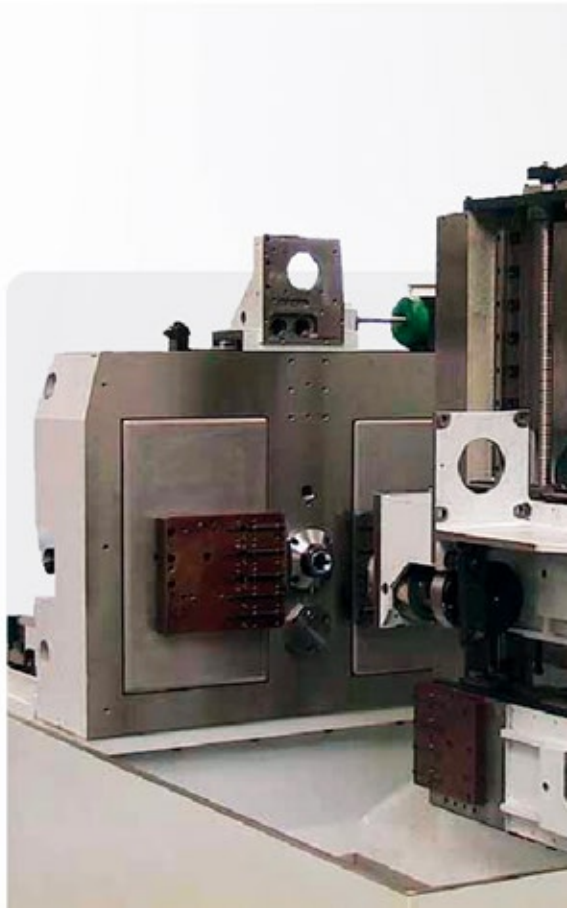
Pressured air

Manurhin K'MX SWING requests the pressure of 6 bars and the one-off flow of 330l/min for the function of secondary spindle collet air blowing. Pressured air controls for example clamping, parts catching or bar feeding.



Lubrication

Linear guideways are lubricated automatically by dispenser. Easy maintenance is guaranteed by free access of lubrication tank in the rear side of the machine.

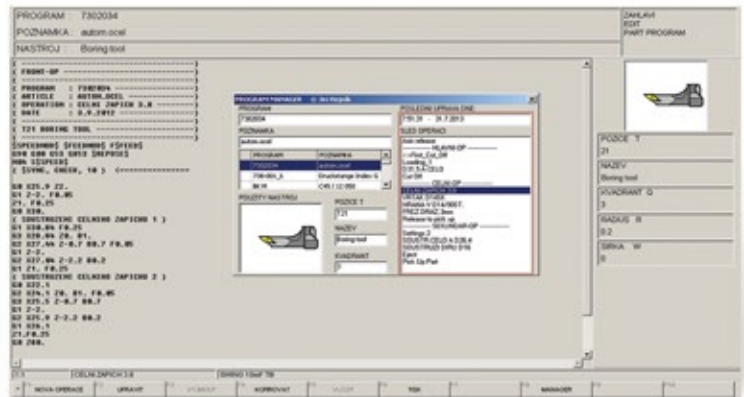




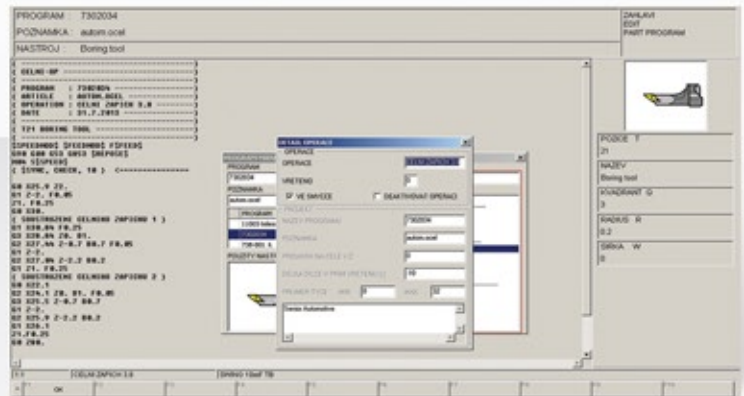
Big advantage is turning or milling with up to three tools on the main spindle and finishing operations on the secondary spindle simultaneously. Optionally each tool rack can be equipped with gearbox for powered tools. The machine comes with an automatic 3m barfeeder with measuring system and bar magazine. Easy and quick tool exchange with the compatible tool holder cartridge system.

PROGRAMMING SOFTWARE PLUS K'MX

Program was developed specifically for machine K'MX SWING and works on MS Windows. Each tool is programmed separately. When programming in K'MX PLUS we consider only the X and Z axes are programmed in ISO code. K'MX PLUS then compiles all programs for each tool, and tries if the situation allows all tools simultaneously. Each tool position can be assigned by maximum cutting values.



After compiling the program we can at any time with a simple click on checkbox activate or deactivate any tool or a tool rack. K'MX PLUS can be operated directly on the machine or externally on the PC. Automatic calling management tools, many already predefined machining cycles: - threading, deep drilling...

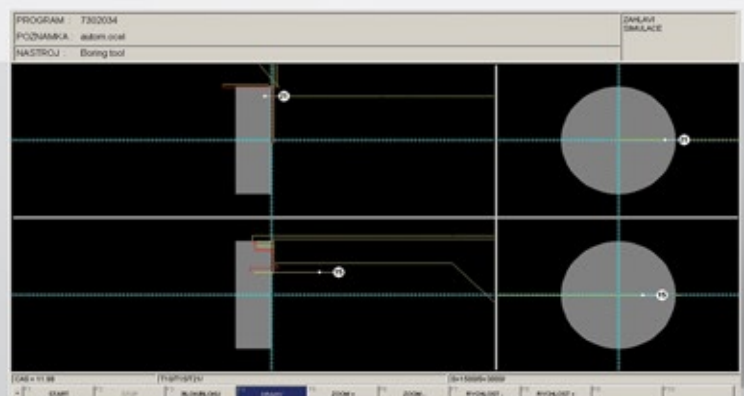


Casting

The cast-iron framework ensures optimal and rigid conditions for machining operations.



K'MX PLUS also allows: graphical simulation of complete cycle or only considered operations, automatic management of parallel operations, automatic design of optimal solutions with maximum use of the potential of parallel operations, correction tool during programming, program test without moving the axes, numeric counter pieces, cycle time display.



MACHINE PARAMETERS

MAIN SPINDLE

Maximum bar capacity	Ø 26 (32") mm
Max. machining length in one feeding	250 mm
Main spindle bore	Ø 33 mm
Max. power of A. C. motor	7,5 kW
Maximum spindle speed	8 000 (10 000) rpm
Spindle direction	left and right
Headstock stroke	250 mm
Rapid feed	30 m/min
Number of slides	2
Stroke	2 x 45 mm
Rapid feed	30 m/min
Number of slides	2
Stroke of vertical slide	2 x 180 mm
Rapid feed	30 m/min
Number of tools	(2 x 5) : 10
Tool shank size	16 x 16 mm
Stroke of vertical slide	343 mm
Rapid feed	16 m/min
Number of tools	4
Stroke of longitudinal slide	230 mm
Rapid feed	30 m/min

SUBSPINDLE –Vertical Slide

Vertical stroke	452 mm
Rapid feed	16 m/min
Stroke of longitudinal slide	215 mm
Rapid feed	30 m/min
Maximum bar capacity	Ø 26/(32) mm
Max. Length of part inside the Sub spindle for frontal ejection	150 mm
Maximum length of part For frontal ejection	170 mm
Spindle bore	Ø 26,5/ (33) mm
Maximum spindle speed	8 000 rpm
Max. power of A. C.	5,5 kW
Air pressure required	6 bars
Connection by "Banjo" coupling	Ø 10 mm
Tank capacity	200 l
Pressure	2,8 bars
Voltage	3 x 400 V – 50 Hz
Total absorbed power	32 kVA

DIMENSIONS

3100 x 1420 x 1960 mm

WEIGHT

4250 kg

**necessary to adjust end of the bars to Ø29mm*

Collets and Guide bushes

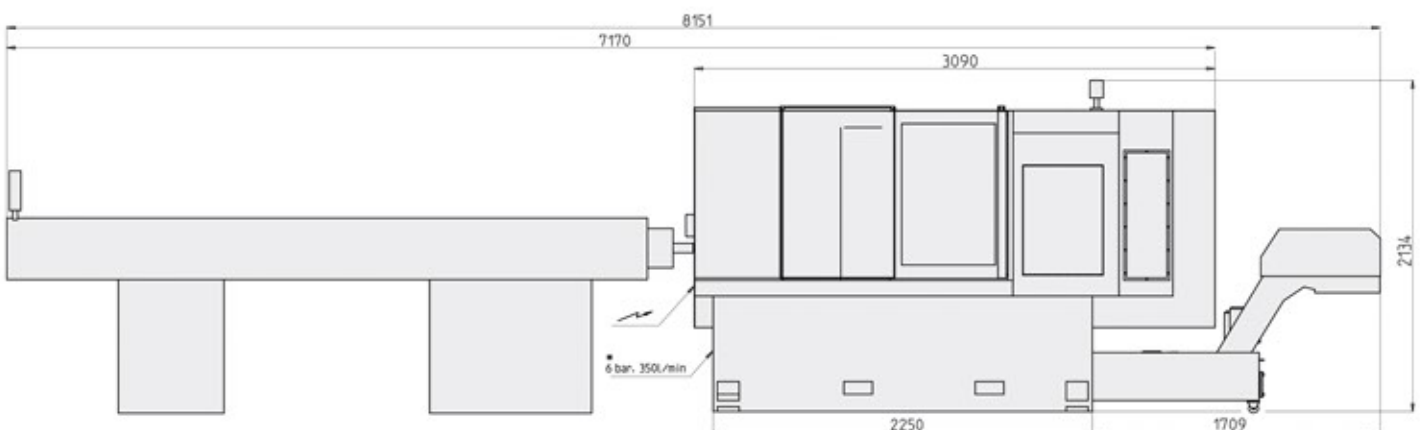


On Manurhin K'MX SWING we use the guide bushes of T227 or T229 denomination. We recommend the guide bushes with hard metal insert from renowned manufacturers.



POn Manurhin K'MX SWING we use for both main and sub spindle the collets of type 161E (F32) or 164E (F38) and we recommend steel ultra-precision collets from well-established collet manufacturers. Usually are used grooved collets or smooth collets or collets with longer nose.

Machine Dimensions

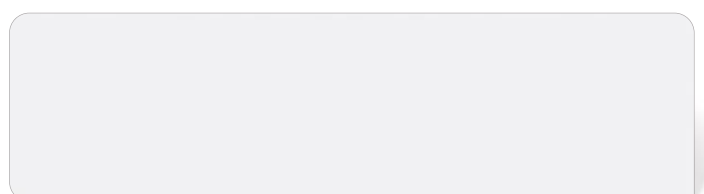


Contact



TAJMAC - ZPS, a.s.
 Třída 3. května 1180
 764 87 Zlín, Malenovice
 Česká republika

Phone: +420 / 577 532 072
 Fax: +420 / 577 533 626
 E-mail: info@tajmac-zps.cz
 Web: www.tajmac-zps.cz



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