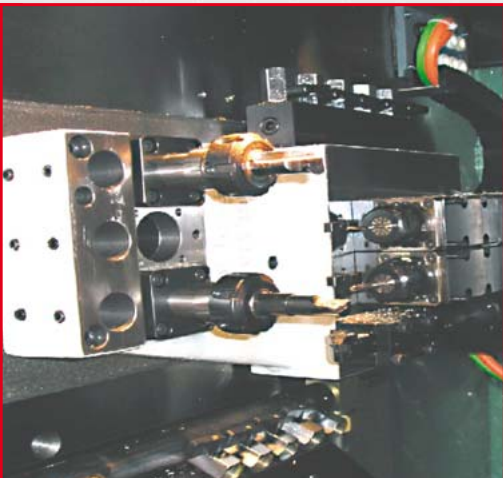


CNC SLIDING HEADSTOCK MACHINE

KMX 532
632



- ▶ High rigidity
- ▶ High productivity
- ▶ Outstanding repeatability
- ▶ Spindle stroke 250 (410) mm
- ▶ Two electrospindles 10 000 rpm
- ▶ Up to 12 live tools
- ▶ Up to 3 independent coolant circuits
- ▶ Machining in 5 or 6 linear axes
- ▶ Grey-cast iron frame

K'MX 532 632



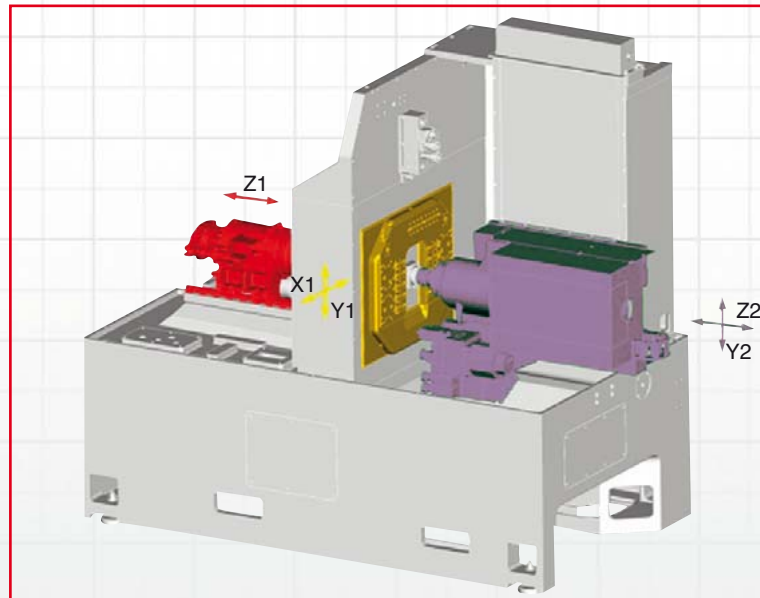
K'MX 532, 632 is dedicated to machining complex parts from the bar up to \varnothing 32 mm. K'MX 532, 632 is declined in bar capacity \varnothing 26, and \varnothing 32 mm.

The main features of K'MX 532, 632 are Productivity, up to 21 tools including up to 12 powered tools, up to 3 tools can work simultaneously, machine works in 5 independent axes.

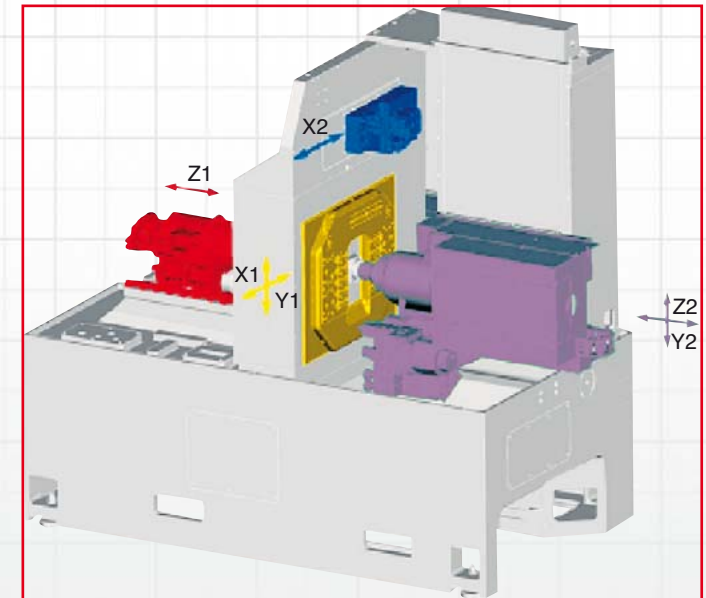
An easy and quick tool change with the compatible toolholder cartridge system Simplified programming possible with software GibbsCAM.

Ergonomic and easy access with large opening door.

K'MX 532, 632 is the ideal solution to manufacture complex parts with high productivity.



Kinematics of K'MX 532



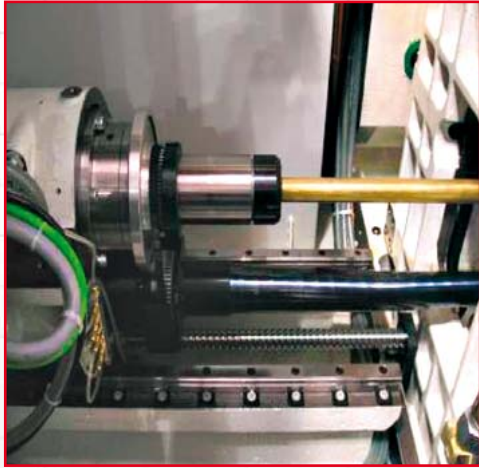
Kinematics of K'MX 632



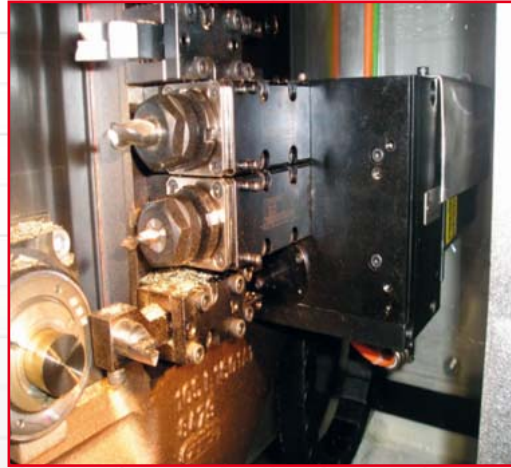
The cast-iron framework insures optimal and rigid conditions for machining operations



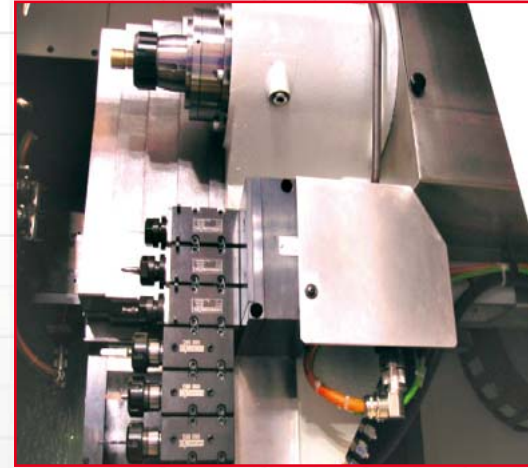
Main tool rack.
Tool rack consists of 10 tool positions for OD operations. Optionally it is possible to use the coolant inlet directly to the toolholder through the tool rack.



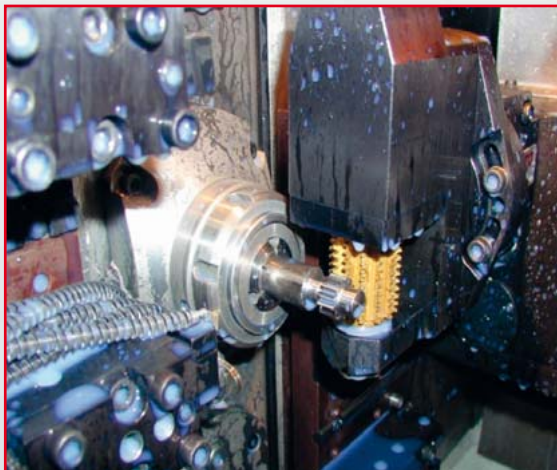
▲ Main spindle and guide bush
The guide bush is driven in synchronisation with the spindle by a splined gear and 2 toothed belts.
Maximal spindle speed – 10 000 rpm



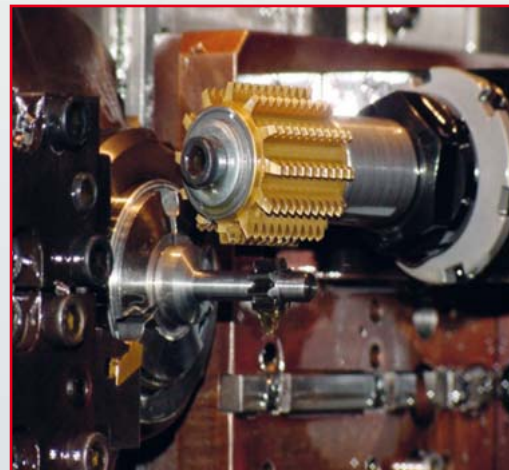
▲ Each rack can be fitted with 3 powered tools.
Top station: $V_{max} = 8\ 000\ \text{rpm}$
 $C_{max} = 7,5\ \text{Nm}$
Middle station: $V_{max} = 4\ 000\ \text{rpm}$
 $C_{max} = 15\ \text{Nm}$
Down station: $V_{max} = 2\ 000\ \text{rpm}$
 $C_{max} = 30\ \text{Nm}$



▲ End working attachment located under the sub-spindle, the end working attachment has 4 positions. Each tool is fixed into a cartridge with boring $\varnothing 25\ \text{mm}$ for collet holder ESX 25.



▲ Gear milling.
Special toolholder on rear rack.



▲ Gear milling.
Special toolholder on rear rack.



▲ Long parts guiding device

CONTROL SYSTEM: GE FANUC 31i

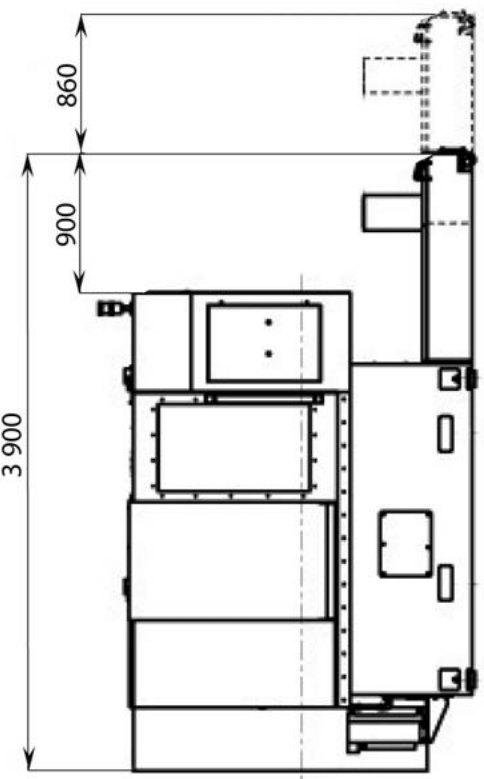
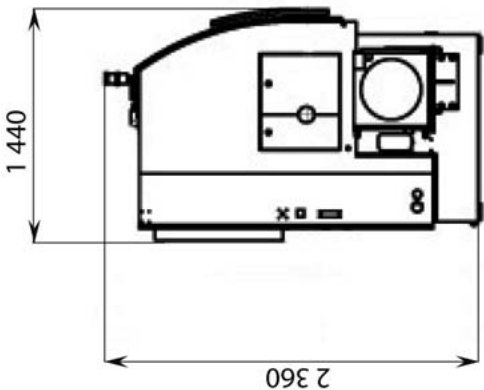
Control system of last generation
LCD 10,4" colour monitor
Fanuc PC keyboard
32 bits
Digital interface between control system and motor drives

SPECIFIC K'MX FUNCTIONS INTEGRATED INTO STANDARD

Possibility to program execution of more than one part on one spindle stroke (max. 410 mm)
Electronic hand wheel enabling the following operations:

- manually: manual axis feed
 - MDI and automatic mode: modification of feeds by indexing of hand wheel
- Interface for barfeeder including:
- end of bar signal
 - bar loading signal
 - automatic cycle for facing of the bar

TECHNICAL DATA



STANDARD EQUIPMENT

GE FANUC 31i control system
 Set of OD tool holders for tools of section 16 x 16 mm
 Set of ID tool holders \varnothing 25 mm
 Main spindle with collet clamp for collets 164E (or 161E, 145E)
 Subspindle with collet clamp for collets 164E (or 161E, 145E)
 Driven rotary mechanical guide bush
 Parts catcher
 Automatic lubrication

OPTIONAL EQUIPMENT

Long parts ejection device
 Chip conveyor
 „C“ axis on main and subspindle
 Live tools

- unit for 3 axial tools towards main spindle
- unit for 3 axial tools towards subspindle
- unit with 3 positions for radial tools
- unit with 3 positions for radial tools (altogether up to 6 radial tools)

 High pressure coolant
 Tool breakage detector

MAIN SPINDLE

Max. bar capacity (Bars over diameter \varnothing 29 mm must be modified for collet of barfeeder) \varnothing 32 mm
 Max. part length in one stroke 400 mm
 Spindle bore \varnothing 33 mm

Spindle drive

Max. motor A.C. power 5,5 kW
 Max. speed 10 000 rpm
 Indexing direction left and right

Sliding headstock

Headstock stroke 410 mm
 Rapidfeed 30 m/min

Horizontal travel – tool rack

Number of slides 1
 Stroke in horizontal 2 x 45 mm
 Rapidfeed 30 m/min

Vertical travel rack

Number of slides 1
 Stroke in vertical 2 x 180 mm
 Rapidfeed 30 m/min
 Tool positions (2 x 5) : 10
 Tool shank size 16 x 16 mm

SUBSPINDLE EQUIPMENT

Vertical slide
 Stroke 650 mm
 Rapid feed 30 m/min
 Number of tools 6

Longitudinal slide

Stroke 260 mm
 Rapid feed 30 m/min

SUBSPINDLE – vertical slide

Stroke 650 mm
 Rapid feed 30 m/min

Longitudinal slide

Stroke 260 mm
 Rapid feed 30 m/min

Parameters

Max. bar capacity \varnothing 32 mm
 Max. part length possible to insert inside the subspindle for frontal ejection 160 mm
 Max. part length enabling frontal ejection 160 mm
 Spindle bore \varnothing 33 mm
 Max. speed 10 000 rpm
 Max. motor A.C. power 5,5 kW

Rear machining unit

Stroke 145
 Number of axial position of tools 6
 Tools holder bore \varnothing 25 mm
 Number of vertical position tools holder 3

Pneumatic system

Air pressure 6 bar
 Connection coupling "Banjo" \varnothing 10 mm

Coolant

Tank volume 300 l
 Flow rate 50 l / min
 Pressure 2 bar

Electricity

Voltage 3 x 400 V – 50 Hz
 Power supply 32 KVA

Complementary data

Dimensions 3 000 x 1 440 x 2 360 mm
 Weight 4 800 kg

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

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