



*swing*

MANURHIN KMX  
TO GET THE WORLD TURNING

# WHEN PRODUCTION «SWINGS» WITH PRECISION

## INNOVATION IS OUR TRADITION

Acknowledged as a leader in the screw cutting world, Manurhin K'MX has designed the K'MX SWING by combining traditional mechanical knowledge with the most up-to-date developments. The success of the K'MX range has naturally led us to offer a machine specially designed for machining small diameters. With a working capacity of either 20, 26 or 32 mm, the K'MX SWING enables you to meet your customer's requirements. Manurhin K'MX knows that you expect our machines to be more than just machines.



Increased efficiency thanks to a complete architecture enabling simultaneous machining with 4 tools.



The use of two identical spindles increases machining capacity in rear side operations and enables evacuation of long parts through the subspindle.



Right from machine set up to production, K'MX SWING ergonomics and accessibility increase productivity.



Optimum machining conditions thanks to the rigid structure of the framework.

The latest generation in CNC control enables a combination of high efficiency and ease of use.

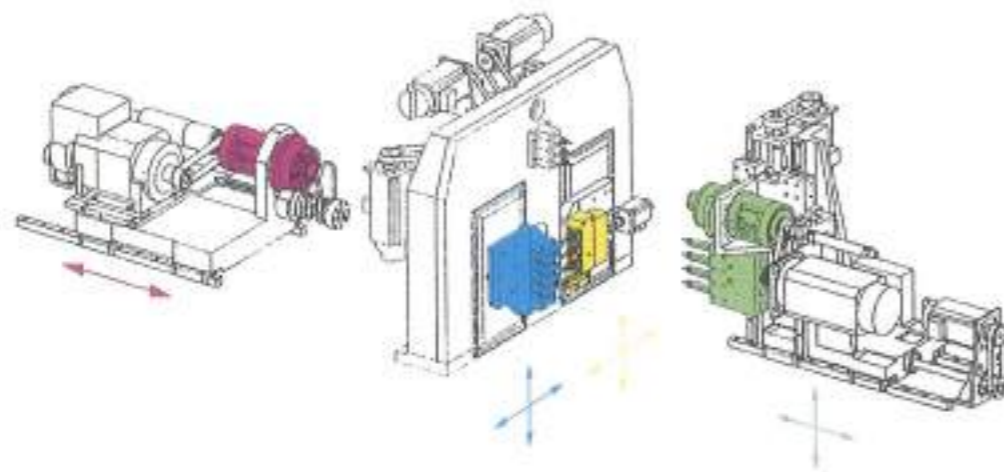


# 20, 26, OR 32 MM, FROM 7 TO 10 AXES, AN OPTIMUM PRODUCTION

swing

## 7 AXES

An increased productivity thanks to its two opposed slides. The subspindle enables all rear side machining.



17 SECONDS

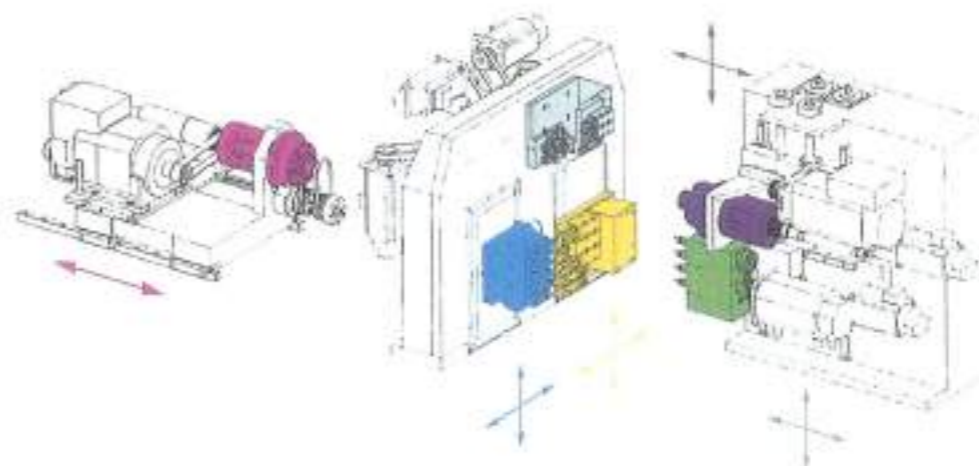


30 SECONDS



## 10 AXES

In its most complete version, in addition to an optimum production K'MX SWING is able to produce the most complex parts.



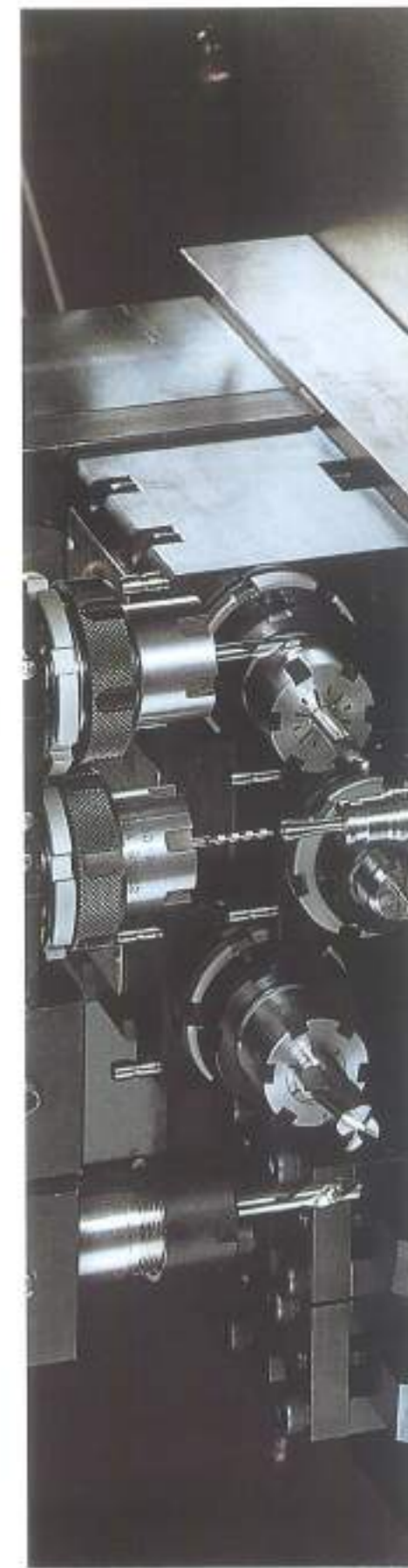
12 SECONDS



24 SECONDS



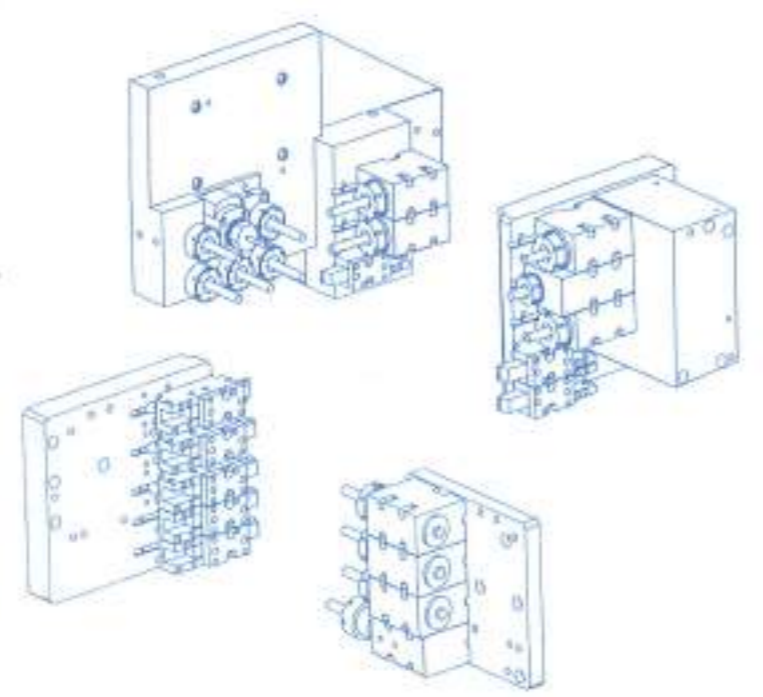
53 SECONDS



# EFFECTIVE TOOLS, SIMPLICITY A BONUS

## A MODULAR TOOL SYSTEM

Front tool rack, rear tool rack, endworking attachment and rear machining unit are equipped with common toolholders, fixed or powered.



Powered toolholders are provided with removable tips which enable a rapid change of tools during production.

Cross drilling, tapping, milling with «Y» axis, high speed drilling, polygon turning, thread and slot milling... Many operations that you can execute with simplicity.

Every toolholder can be pre-set off the machine.



## K'MX PLUS

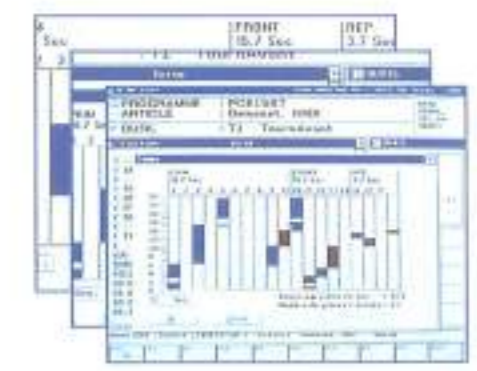
K'MX PLUS operates with Windows® and offers user-friendly programming specially adapted for simultaneous operations.

Each machining operation is individually programmed in ISO code with graphic assistance and tool library.

K'MX PLUS generates the part programme by taking into consideration the machine kinematics and machining requirements.

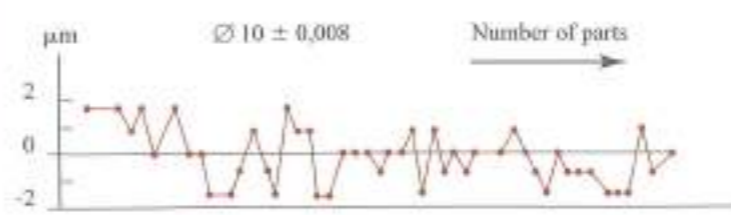
With K'MX PLUS integrated in the controls or used on a separate programming station, you will fully benefit from K'MX SWING's performances.

7 or 10 axes,  
Only your parts will know!

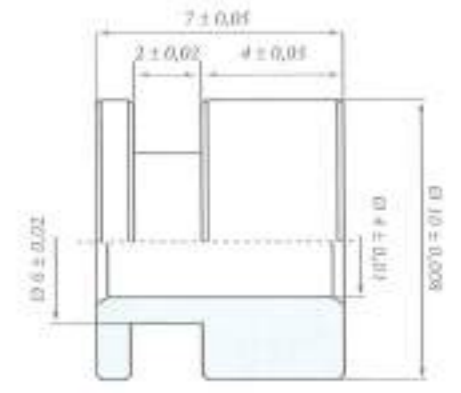


## PRECISION AND REPEATABILITY

Even when using the most difficult materials.



Variation :  $\Delta$  maxi = 4 µm  
Standard deviation =  $\sigma$  = 1,32 µm that is to say  $6\sigma$  = 8 µm  
Machine capability : Cmk = 2,1

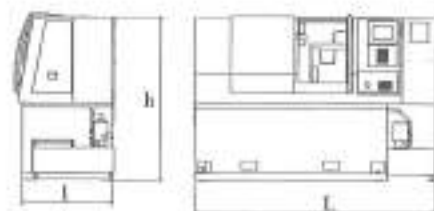


Material : INCONEL 625  
NC22 FeDN8  
Cycle time : 55 sec.  
Diameter of bars : 12h8

# TECHNICAL DATA




		KMX SWING Q20		KMX SWING Q26		KMX SWING Q32	
		7 axes 4000 kg	10 axes 4200 kg	7 axes 4050 kg	10 axes 4250 kg	7 axes 4050 kg	10 axes 4250 kg
Weight of machine							
Machine capacity	Bar capacity	Ø 20 mm	Ø 26 mm	Ø 26 mm	Ø 33 mm	Ø 32 mm	Ø 33 mm
	Main spindle bore	Ø 28 mm	Ø 33 mm	Ø 33 mm	Ø 33 mm	Ø 33 mm	Ø 33 mm
Main spindles	A.C. motor power rating (100% / 40 %)	3,7 / 5,5 kW	5,5 / 7,5 kW	5,5 / 7,5 kW	5,5 / 7,5 kW	5,5 / 7,5 kW	5,5 / 7,5 kW
	Max. spindle speed	10000 rpm	8000 rpm	8000 rpm	8000 rpm	8000 rpm	8000 rpm
Sliding headstock	Headstock stroke	250 mm	250 mm	250 mm	250 mm	250 mm	250 mm
Subspindle	Max. bar capacity	Ø 20 mm	Ø 26 mm	Ø 26 mm	Ø 26,5 mm	Ø 26 mm	Ø 26,5 mm
	Spindle bore	Ø 21 mm	Ø 26,5 mm	Ø 26,5 mm	Ø 26,5 mm	Ø 26,5 mm	Ø 26,5 mm
	Max. spindle speed	10000 rpm	8000 rpm	8000 rpm	8000 rpm	8000 rpm	8000 rpm
	A.C. motor power rating (100% / 40%)	2,2 / 3,7 kW	3,7 / 5,5 kW	3,7 / 5,5 kW	3,7 / 5,5 kW	3,7 / 5,5 kW	3,7 / 5,5 kW
	Max. length of part inside the spindle	150 mm	150 mm	150 mm	150 mm	150 mm	150 mm
	Max. length of part for front ejection	170 mm	170 mm	170 mm	170 mm	170 mm	170 mm
Pneumatic controls	Air pressure required	6 bars	6 bars	6 bars	6 bars	6 bars	6 bars
	Connection by "back" coupling	Ø 10 mm	Ø 10 mm	Ø 10 mm	Ø 10 mm	Ø 10 mm	Ø 10 mm
Coolant	Tank capacity	200 l	200 l	200 l	200 l	200 l	200 l
	Pressure	2,8 bars	2,8 bars	2,8 bars	2,8 bars	2,8 bars	2,8 bars
Options	Powered tools	Long part evacuation device					
	- on rear tool rack - on front tool rack - on endworking attachment - on rear machining unit	High pressure coolant Tool breakage detection					
	*C axis on main spindle *C axis on subspindle						



	1420	1420	1420
	3370	3370	3370
	1985	1985	1985



**MANURHIN KMX**  
TO SET THE WORLD TURNING

Z.I. DE LA DOLLER  
68520 BURNHAUPTLE-HAUT - FRANCE  
TEL. 33 (0)3 89 62 30 33 - FAX 33 (0)3 89 53 44 84  
www.manurhin-kmx.com • E-MAIL : info@manurhin-kmx.com

CE