

# K2X20Five

High performances 3/5 axes machining centre



XYZ 1.200 / 1.000 / 500 mm

3 axes area: 700 x 1.000 mm

5 axes area: Ø 400 mm

A -20°/+110°

C 360°

Spindle 18.000 rpm

Tool changer 20 housings



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# Characteristics

## K2X20 Five

### TRAVELS

X axis Table	1.200 mm
Y axis Saddle	1.000 mm
Z axis Spindle headstock	500 mm

### 3 AXES MACHINING AREA

X-Y travels	600 x 1.000 mm
Table area	700 x 1.000 mm
Table load	1.000 kg

### 5 AXES MACHINING AREA

X-Y travels	600 x 1.000 mm
Table area	Ø 400 mm
Table load	200 kg
A axis - Swivelling axis	- 20° / + 110°
C axis - Rotating axis	360°

### STANDARD SPINDLE 18.000 rpm

Tool taper	HSK 63-A
Max. rotation speeds	100 - 18.000 rpm
Power (S1/S6)	25 / 35 kW
Torque (S1/S6)	86 / 120 Nm
Characteristic speed	2.800 rpm

### LINEAR FEEDRATES

Rapid feedrate	X = 50 m/min - Y-Z = 60 m/min
Acceleration on each axis	X = 4 m/s <sup>2</sup> - Y-Z = 6 m/s <sup>2</sup>
Vectorial acceleration	9,5 m/s <sup>2</sup>

### ROTATING FEEDRATES

Max. feedrate	A = C = 200 rpm
Acceleration on each axis	A = C = 25 rd/s <sup>2</sup>

### ACCURACIES (VDI/DGQ 3441)

	Linear axes	Rotating axes
Uncertainty P	4 µm	5 sec
Repeatability: Ps medium	2 µm	2 sec

### TOOL CHANGER

Number of tools	20
Tool dimensions (Weight / Diameter / Length)	5 kg / 90 mm / 300 mm

### OVER-ALL DIMENSIONS & SUPPLIES

Weight	15.000 kg
Total installed power	65 kVA
Compressed air: Pressure / Max. consumption	6 bar - 47 m <sup>3</sup> /h

## Options

### SPINDLE IN OPTION

28.000 rpm

Tool taper	HSK 63-A
Max. rotation speeds	100 - 28.000 rpm
Power (S1/S6)	30 kW / 40 kW
Torque (S1/S6)	50 Nm / 67 Nm
Characteristic speed	5.680 rpm

### TOOL CHANGER IN OPTION

	30 / 40 / 60	100
Type	Pick-Up	Transfer arm
Tool taper	HSK 63-A	HSK 63-A
Tool dimensions (Weight / Diameter / Length)	8 kg/90 mm/300 mm	8 kg/90 mm/300 mm



## CONFIGURATION

- 3/5 axes milling centre with numerical controller
- Structural elements in cast iron
- Moving saddle on fixed bridge, moving bed, milling head with electrospindle
- Linear axes controlled by numerical drives
- Rotating axes directly driven by torque motors
- Incremental linear scale measurements on XYZ axes
- Automatic centralised lubrication of the ball screw nuts
- Low coolant by nozzles = 3 bar - 30 l/min
- Coolant tank = 330 liters
- Chips conveyor
- Complete safeguard

## OPTIONS

- Electrospindle vibration sensor
- Coolant 15 or 50 bar
- Air blast
- Micro-spraying coolant by nozzles
- Part probe and tool probe
- Oil extraction system

## OPTIONS CN SIEMENS 840 D

- CAD-Reader
- 3D tool radius compensation
- Tools management
- Polynomial and SPLINE interpolation
- Ethernet network
- ShopMill (Conversational programming)
- Remote diagnosis

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