

# KX40 Five

5 axes high performances bridge type milling centre

# KX45 Five



**KX40 Five**

XYZ 2.300 / 1.100 / 600

Table 2.260 x 1.140 mm

A  $-90^{\circ}/+100^{\circ}$

C  $\pm 220^{\circ}$

Spindle 20.000 rpm

Tool magazine 28 housings



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## Technical characteristics

	KX40 Five	KX45 Five
<b>TRAVELS</b>		
X axis Longitudinal travel	2.300 mm	3.300 mm
Y axis Cross travel	1.100 mm	1.440 mm
Z axis Vertical travel	600 mm	600 mm
A axis	+ 100° / - 90°	
C axis	+/- 220°	

<b>TABLE</b>		
Table area	2.260 x 1.140 mm	3.100 x 1.440 mm
Admissible load on table	4.500 kg	6.000 kg
Max. width of working piece	1.300 mm	1.640 mm
Distance spindle nose / table (min/max):		
- spindle in vertical position	55 mm / 655 mm	
- spindle in horizontal position	310 mm / 910 mm	

<b>STANDARD SPINDLE 20.000 rpm</b>		
Tool taper	HSK 63-F	
Spindle speeds	100 - 20.000 rpm	
Spindle motor power	7,5 kW (S1) - 11 kW (S6)	
Max. spindle torque	10,5 Nm (S1) - 15 Nm (S6)	
Characteristic speed	7.000 rpm	

<b>FEEDRATES OF LINEAR AXES</b>		
Rapid	X-Y = 25 m/min - Z = 30 m/min	
Acceleration by axis	X-Y = 2,5 m/s <sup>2</sup> - Z = 5 m/s <sup>2</sup>	

<b>FEEDRATES OF ROTATING AXES</b>		
Max. rotating speed	16 rpm	

<b>PRECISIONS (VDI/DGQ 3441)</b>	Linear axes	Rotating axes
Positioning	10 µm	25 sec

<b>TOOL MAGAZINE</b>		
Quantity of housings	28	
Over-all measurements by tool (Weight / Diameter / Length)	2 kg / 80 mm / 250 mm	

<b>OVER-ALL MEASUREMENTS &amp; ENERGIES</b>		
Weight	10.500 kg	15.500 kg
Total installed power	37 kVA	42 kVA
Compressed air: Pressure / Flow	6 bar / 6 m <sup>3</sup> /h	6 bar / 6 m <sup>3</sup> /h

### Options

<b>TOOL MAGAZINE IN OPTION</b>		
Quantity of housings	44	
Over-all measurements by tool (Weight / Diameter / Length)	2 kg / 80 mm / 250 mm	

### BASIC EQUIPMENTS

- 5 axes milling centre with numerical controller type HEIDENHAIN iTNC 530
- Structural elements in cast iron and weld-mechanic
- Mobile bed and table (X axis), mobile saddle on portal (Y axis), slide supporting the milling head (Z axis) with electrospindle
- Tilting head
- Control of feedrates by AC motors
- Rotating axes controlled by AC motors with reducer
- Incremental linear measurement - Resolution 0,001 mm
- Measurement on rotating axes by rotating encoder
- Coolant device for spindle and vertical slide
- Automatic centralised lubrication
- Pneumatic device for tool unclamping
- Low pressure coolant by nozzles = 3 bar - 10 l/min
- Coolant tank = 330 liters
- Chips conveyor = 260 liters
- Complete safeguard
- Chips conveyors with 2 screws

### ADDITIONAL EQUIPMENTS

- Scaling chips conveyor

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