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TECHNICAL DATASHEET CNC- Gear Grinding Center

Manufacturer	KAPP NILES
Туре	KX 500 FLEX
Control	SINUMERIK 840 D
Built	2009



The KX 500 FLEX gear grinding center is suitable for both generating and profile grinding of gears and pinions. Workpieces up to a diameter of Ø 500mm and a length of max. 1,000mm can be machined on the machine.

It is especially designed for fast mass production and equipped with a robot interface.

Working area			
Nominal workpiece diameter	500	mm	
Max. Workpiece length	1.000	mm	
Max. Radial travel (X axis)	525	mm	
Max. Tangential travel (Y axis)	250	mm	
Max. Tooth width (Z-Axis)	520	mm	Max. axial travel
Module range gear grinding	1,0 - 8	mm	
Module range profile grinding	0,5 - 12	mm	
Grinding spindle swivel angle (A axis)	+/- 45	Grad	

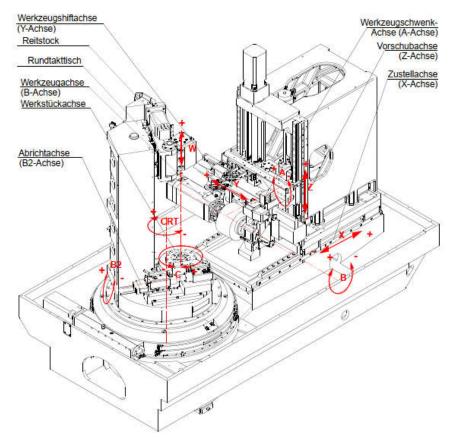
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The KX 500FLEX has seven CNC axes that are controlled simultaneously during machining

Rotary indexing table CRT

Equipped with:

- Profile dresser fab. GSN for profile dressing of profile grinding wheels and grinding worms (B3 axis)
- dressing ruler for head dressing of grinding worms
- workpiece spindle (C-axis)Counterholder with vertical movable NC-tailstock

Driving range	270	0
Max. Swivel speed	210	°/s

Profile-Dressing unit GMN TSE 100cg (B3-Axis)			
Power	1,25	kW	(S1)
Speed	6.000	min-1	
Diameter dressing wheel	100	mm	
Dresser in single roll design			

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Grinding spindle (B-Axis)								
Max. Speed 7.500 1/min								
Max. Dimension grinding wheel Ø 320 mm								
Integrated autom. balancing device Make DITTEL								
Feeds and rapid traverse								
X-Axis 20.000 mm/min								
Y-Axis 10.000 mm/min								
Z-Axis 10.000 mm/min								
A-Axis 50 °/s								
Dimensions & Weight								
Space requirement approx. I x w x h 6,8 x 5,3 x 3,2 m								
Machine weight approx. 11.200 kg								
Connection data								
Total connected load approx. 80 kVA								
Operating voltage 400 V								
Operating frequency 50 Hz								
Control voltage 24 V DC								
Equipment and Accessories								
Basic machine KX 500 FLEX with control Siemens Sinumerik 840D and NC tailstock								
 Modem connection (analog) 								
 automation interface (hardware + software) for robot loading 								
Cooling lubricant system (HOFFMANN type HSF 150) with oil mist suction system								
 Cooling lubricant system (HOFFMANN type HSF 150) with oil mist suction system 	 Automatically opening and closing loading door 							
Automatically opening and closing loading door								
 Automatically opening and closing loading door Automatically opening and closing work area door 								

- Automatic balancing unit make DITTEL
- Measuring device for external gears
- Swiveling measuring probe holder
- Gear measuring system
- Fume separator incl. exhaust system
- Full enclosure of the working area
- Electronic operating handset
- Machine light
- All axes and spindle in digital drive technology SIMODRIVE 611 D
- Machine operating hours: ca. 31.500 h

The machine can be operated with manual or automatic loading.

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