

Kunzmann BA 800



KUNZMANN[®]
FRÄSMASCHINEN

Compact, high performance vertical machining center with rapid tool changer suited for the versatility of job-based series production.

Excellent accessibility and a high level of ergonomics designed for production of single parts.

Unique features:

- Sophisticated ripped cast iron construction in C-frame and column saddle design with linear roller profile guideways in the X-/Y-axis and a flat guideways in the Z-axis
- High Z-travel, useful when using a 4th axis or with tall workpieces
- Fast tool changer reduces the unproductive times
- Oversized ballscrews in all axes
- Main spindle coolant system perform highest milling precision and surface quality
- Ergonomically designed machine with large front doors and direct access to working area
- Efficient chip disposal with slat band conveyor and trough chip bath rinsing
- Movable operating panel makes it easier to configure the machine

Control:

HEIDENHAIN TNC 640 CONTOURING CONTROL

Modern CNC-high performance control for 3-D-processing of complex workpieces with a fast block processing time.

The control provides a hard disk as well as USB/Fast-Ethernet-Interfaces for a fast program management.

Extensive functions for graphics and simultaneous possibilities.

Especially Heidenhain TNC 640:

- Programming with Heidenhain conversational, DIN/ISO-Code
- Making of angular boring holes automatically / machining of cylindrical contours (option)
- DXF-Converter (option), load directly and convert DXF-files

SIEMENS 840 D sl ShopMill COUNTOURING CONTROL

Modern CNC-high performance control for 3-D-processing of complex workpieces with a fast block processing time.

The control provides a memory card as well as USB/Fast-Ethernet-Interfaces for a fast program management.

Extensive functions for graphics and simultaneous possibilities.

Especially Siemens 840 D sl:

- ShopMill user interface - Wide range of programming possibilities in the DIN/ISO code

BA 800 _ Technical Data

TECHNICAL DATA		BA 800	STANDARD EQUIPMENT:
Working range	longitudinal X-axis cross Y-axis vertical Z-axis	820 mm 620 mm 610 mm	<ul style="list-style-type: none"> ▶ Elaborately ribbed cast-iron construction ▶ Linear roller guideways in X- and Y-axis ▶ Flat guideway in Z-axis (hardened) ▶ Ground ballscrews
Main spindle drive	A.C. motor Power rating at 100% duty cycle Power rating at 40% duty cycle	10,0 kW 14,0 kW	<ul style="list-style-type: none"> ▶ Hydr./mech. tool clamping ▶ Spindle blow-out system ▶ Spindle oil-cooling system ▶ 32-pocket tool changer ▶ Autom. central lubrication
Spindle speed range	infinitely variable with option in-line spindle	1 – 8000 rpm 12000 / 16000 rpm	<ul style="list-style-type: none"> ▶ Clamping table ▶ Full-protection cabin ▶ Chip bath rinsing ▶ Slat band conveyor including 500 litres. coolant system ▶ Coolant tube incl. pistol ▶ Leveling elements ▶ Contouring control Heidenhain iTNC 530
Torque	100% duty cycle 40% duty cycle	130 Nm 190 Nm	
Feed drives	AC-drives	digital	
Feed rate	X-, Y- and Z-axis	15 m/min	
Rapid traverse	X-, Y- and Z-axis	30 / 30 / 24 m/min	
Tool taper		ISO 40 DIN 69871/72	
Tool changer	positions	32	OPTIONS: <ul style="list-style-type: none"> ▶ Coolant supply through spindle at 25 bar or 40 bar ▶ Chip conveyor ConSep 2000 II including coolant cleaning system ▶ Distance-coded linear measuring systems ▶ Electronic handwheel ▶ In-line spindle n = 12,000 rpm or 16,000 rpm ▶ Autom. sliding doors ▶ Touch probe systems ▶ Autom. tool measurement / laser tool control system ▶ CNC dividing units – 4th/5th-axis ▶ Contouring control Siemens 840 D with ShopMill
Tool change time		3 sec.	
Chip-to-chip-time		8 sec.	
Clamping table	clamping surface T-slots load ability	1050 x 610 mm 6 T-Nuten 18 H 8 700 kg	
Operating voltage		400 Volt, 50 Hz	
Power consumption		35 kVA	
Weight		ca. 6.800 kg	
			BA 1000-810 Z VARIO: <ul style="list-style-type: none"> ▶ Extended Z-axis travel up to totally 810 mm ▶ Linear roller guideway in Z-axis ▶ Pneumatic counter-balance in Z-axis