

Kunzmann WF 600 CNC



KUNZMANN[®]
FRÄSMASCHINEN

A CNC milling machine for production-oriented users and manufacturers of high-quality single parts and small-batch products. This modern universal milling machine is characterized by high quality, performance, the highest levels of precision, and optimal accessibility.

Major characteristics are:

- Stable multi-ripped cast iron construction with horizontal-/vertical spindle and manual quill
- Hardened and ground flat guideways in all axes for highest rigidity
- Backlash-free ballscrews for up- and down milling
- Stepless feed rate and spindle speed rate
- High-torque main spindle drive with gear box (automatically changed)
- Hydraulic tool clamping
- Recirculating cooling system in machine ram, incl. temperature compensation system of Y-axis for high milling precision and surface quality
- Ergonomically designed machine with large front and side door, providing direct access to working area
- High performance contouring control Heidenhain TNC 640 or Siemens 840 D sl ShopMill for 3-D processing.

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

WF 600 CNC *_ Technical Data*

TECHNICAL DATA		WF 600 CNC	STANDARD EQUIPMENT:
Working range	longitudinal cross vertical	X-axis Y-axis Z-axis	600 mm 400 mm 400 mm
Main spindle drive	A.C. motor Power rating at 100% duty cycle Power rating at 60% duty cycle		6,5 kW 8,0 kW
Spindle speed range	horizontal and vertical spindle Infinitely variable by gear stages		1 – 5000 min ⁻¹
Feed drives	AC-drives		digital
Feed rate	X- and Y-axis Z-axis		10,0 m/min 7,5 m/min
Rapid traverse	X- and Y-axis Z-axis		10,0 m/min 7,5 m/min
Swivelling range vertical milling head			+/- 90°
Extending quill, vertical			stroke 60 mm
Tool taper			ISO 40 DIN 69871 / 2080 / 7388
Linear measuring systems	direct, distance-coded		resolution 0,001 mm
Machine accuracy	Pmax as per VDI/DGQ 3441		0,010 mm
Operating voltage			400 Volt, 50 Hz
Power consumption			ca. 15 kVA
Weight			ca. 2.200 kg

OPTIONS:
<ul style="list-style-type: none"> ▶ Angular table: <ul style="list-style-type: none"> WF 400 CNC: 650 x 350 mm WF 600 CNC: 800 x 425 mm ▶ Universal table 650 x 395 mm (rotating angle with digital readout) ▶ Arbor holder ▶ Touch probe systems ▶ Oriented spindle stop ▶ Minimum-quantity lubrication system ▶ CNC dividing units – 4th / 5th axis ▶ Contouring control Siemens 840 D ShopMill