

SAM 019353**WALDRICH COBURG Art 20-10 FP 280**

Gruppe Portal Fräswerk
Hersteller WALDRICH COBURG
Art 20-10 FP 280



Anzahl Achsen total	3
Tischlänge	8000 mm
Tischbreite	2800 mm
Anzahl T-Nuten:	11
T-Nutenbreite	36H8 mm
Abstand der T-Nuten	250 mm
Verfahrwege:	
X-Achse	9000 mm
Y-Achse	2950 mm
Z-Achse	1250 mm
W-Achse	2200 mm
Distanz zwischen Tisch und Spindel max.	2806 mm
Durchgang zwischen Ständer	3200 mm
Max. Werkstückgewicht auf dem Tisch	64000 kg
Spindelaufnahme	60 ISO
Spindeldrehzahlen:	
Anzahl (Stufen)	16
von	20 t/min
bis	600 t/min
Vorschübe:	
X-Achse von	5 mm/min
bis	3000 mm/min
Y-Achse von	5 mm/min
bis	3000 mm/min
Z-Achse von	5 mm/min
bis	2'000 mm/min
W-Achse von	5 mm/min
bis	750 mm/min
Schleichgänge:	
X-Achse	5 - 3000 mm/min
Y-Achse	5 - 3000 mm/min
Z-Achse	5 - 2000 mm/min
W-Achse	5 - 50 mm/min
Anschluss 50 Hz 3x	380 Volt
Spindelmotor	100 kW
Drehmoment der Spindel	13000 Nm
Gewicht total zirka	120'000 kg
Abmessungen total zirka:	
Länge	21000 mm
Breite	7800 mm

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Höhe

6622 mm

Diverses Zubehör:

90° Aufnahme

90° Aufnahme schmal

Vertikale Verlängerung

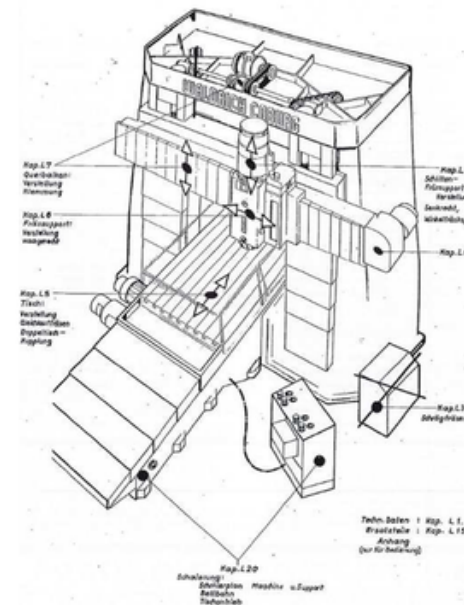
Kippbarer Aufsatz





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Movements sketch

**OVERALL DIMENSIONS**

• Length	mm	21.000
• Width	mm	7.800
• Height from floor	mm	6.622

SIZES

• Table height from floor	mm	500
• Table width	mm	2.800
• Table length	mm	8.000
• N° of "T" slots	n°	(5.000 + 3.000) 11
• Distance between centers of slots	mm	250
• Type of slots	mm	36H8

MACHINE CAPACITY

• Milling useful width	mm	3.100
• Distance between columns	mm	3.200
• Max distance spindle-nose/table	mm	2.806
• Max weight admitted on table	T	64

AXES STROKE

• Table stroke ("X" axis)	mm	9.000
• Rapid feeds	mm/min	5-3.000
• Slow feeds	mm/min	5.5-50
• Slide stroke on crossrail ("Y" axis)	mm	2.950
• Rapid feeds	mm/min	5-3.000
• Slow feeds	mm/min	5-50
• Slide vertical stroke ("Z" axis)	mm	1.250
• Rapid feeds	mm/min	5-2.000
• Slow feeds	mm/min	5
• Cross-rail stroke ("W" axis)	mm	2.200
• Rapid feeds	mm/min	5-750
• Slow feeds	mm/min	5-50

RETROFITTING WITH NUMERICAL CONTROL SIEMENS 840 D SL

It controls "X" axis (table movement), "Y" axis (Head movement along crossrail), "Z" axis (vertical movement of the Head), the cutting speed, the main motor power management, the automatic tools changer management (if the machine will be equipped).

The CNC also includes the static interface between the electrical equipment and CNC, as well as all the functions included in the basic version of the model chosen and anything else necessary for the perfect machine running.

The operator panel and all the controls are anchored to the ground in a central position with rotation of the control by means of an articulated arm (ray 1.5 mt approx.) Other solutions preferred by the Customer are possible.



- Digital control
- Memory: 2Gb
- NCU 730.3 PCU 50.5P
- Ethernet
- System memory unit: 40Gb
- Pentium M (Mobile) 2,4 GHz
- Human-machine interface HMI
- 19" LCD, with full-function keyboard (OP19C-TFT)
- Standard networking interface
- RS232 standard communication port
- Nr. 5 USB2.0 ports (nr. 4 internal, Nr. 1 external)
- 25X CD-ROM optic drive
- HT-2 handheld unit with screen (IP65)
- Interface
- Windows 7
- Synchronous, non-synchronous or interpolation controlling, 3D interpolation.
- Calling up subprogram
- Tool compensation
- Tool life control
- Rigid tapping
- Trouble diagnosis and display
- Safety protection system: over temperature, overpressure, battery low charge, memory, limit switch and fan.
- 3D graphic simulation and display of the working process, monitoring the path, and inputting programmable interlock data.
- Standard cycle programs furnished with graphic display.
- I/O function and data modification
- Be able to realize automatic/manual control of the machine



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The offered machine is composed by:

"X" axis bed

The bed is high-quality cast-iron, oversized to grant great stiffness and to bear big loads. It is anchored to the foundation by means of tie rods and levelling screws to give a perfect initial alignment and then to make easy the possible operations of levelling checking during the machine working life.

**MOVABLE TABLE
"X" AXIS**

The table is made of high quality cast iron, it has a useful length of 8 meters; it can work 8 useful meters or it can be shared into 2 parts, one 5 meters long, the other 3 meters long; the "V" guideways are coated with antifriction material, Turcite type.

**"Y"AXIS SUPPORT
COLUMNS**

The columns are high quality cast iron, oversized in order to obtain high rigidity to bear the stresses deriving from the slide-holder carriage in transverse movement on the movable crossrail.

FIXED CROSSRAIL

The crossrail is high quality cast iron, fixed in the upper part to the columns, in order to make the structure extremely rigid to bear loads and stresses deriving from the movable crossrail in all its vertical stroke on columns.

**MOVABLE
CROSSRAIL "Y"
AXIS**

The crossrail is high quality cast iron suitably ribbed and structured to be able to bear flexion and torsional stresses, deriving from weight and work efforts, deriving from the slide-holder carriage.

The adjustable gibs, which guarantee a perfect sliding vertical movement, are covered with antifriction material, Turcite type.

**SLIDE-HOLDER
CARRIAGE**

The slide-holder carriage is high quality cast iron, appropriately structured to make it extremely rigid to bear the stresses to which the slide is subjected, to which extremity are applied the milling attachments.

"Z" AXIS SLIDE

It is the part of the machine subjected to the first impact related to the work effort. The slide is high quality cast iron, the dimensions are 600 mm. x 700 mm. It is strongly ribbed and structured in order to bear the most extreme working conditions with great rigidity. To ensure a perfect vertical movement in "Z", in the slide-holder are installed some antifriction material gibs, Turcite type.

HYDRAULIC PLANT

An hydraulic unit complete with electric pump and solenoid valves drives all the services necessary for the machine correct operation.

**MEASUREMENT
SYSTEM**

At present "PHILIPS OPTICAL SCALES" are installed for "Z" and "X" axes.