

**Weeke OPTIMAT BHX 050
used machine - year 2010**

CNC controlled vertical machining center

1. BASIC MACHINE

- Machine base frame in stable steel frame construction
- Gray paintwork RDS 240 80 05
- Direct suction on the processing unit as well as separate Extraction connection for the extraction system (on site)

2. GUIDANCE SYSTEM AND DRIVE TECHNOLOGY

- dust-proof linear guide system
- Ball screw in X, Y and Z directions
- Digital drive system in X, Y and Z direction
- Axes speed:
 - vector speed
 - X/Y = 50 m/min
 - Z = 15 m/min
- maintenance-free motors with high resolution
- optical encoders guarantee high accuracy
- Digital drive controllers guarantee high reliability

3. WORKPIECE HANDLING

To load the machine, the workpieces manually on a pneumatically controllable Stop cylinder in the workpiece allocation area positioned. The removal of the workpieces is done manually from the workpiece removal area or by the reversing function from the workpiece allocation area.

- 1 stop cylinder for workpiece positioning
- 1 workpiece collet in the X direction above Ball screw moveable. The position of the collet in the longitudinal direction X programmed automatically.

The clamping jaw itself is to the thickness gauge of the workpiece to be set manually. (Of the collet stroke is 6 mm)

Workpiece length: min. 200 mm

Workpiece length: max. 2500 mm

Workpiece width: min. 70 mm

Workpiece width: max. 850 mm

Workpiece thickness: min. 12 mm (for flat processing)

min. 12 mm (for horizontal processing on the two transverse edges and at the top edge)

Note: When drilling horizontally from the bottom edge a central drilling only up to a workpiece thickness of 19mm allowed.

60mm max

Workpiece weight: max. 30 kg

The workpieces must have a straight edge for positioning.

The workpiece length/width ratio should be ≥ 1 . The workpiece to be positioned should always be placed with the longer edge side.

3.1 WORKPIECE AREA

Mechanical support by means of a Roller conveyor for workpieces up to 1000 mm in length. A workpiece support can be used for longer workpieces (on site) be useful.

Note: A corresponding security area must be observed in front of the document area

will. (see data sheet)

3.2 WORKPIECE REMOVAL AREA

Mechanical support by means of a
Roller conveyor for workpieces up to 1000 mm in length.
A workpiece support can be used for longer workpieces
(on site) be useful.

Note: A corresponding security area
must be observed behind the removal area
will. (see data sheet)

4. CONFIGURATION

Processing unit in Y and Z direction
Ball screw can be moved automatically
including drilling gear with individually retrievable
Drilling spindles and a counter support for the workpiece
Guidance of the workpiece during processing
and positioning.

1 workpiece counter support with manual-electronic
workpiece thickness setting. The one to be discontinued
Workpiece thickness can be optically over
display on the screen can be checked.

DRILL GEAR V8 HIGH SPEED

including quick-change system and spindle clamp
Vertical drilling unit (individually controllable
with variable speed range). spindle clamp
to safely reach the drilling depth.

Travel: see attached assembly plan
pre-stroke

Z Direction: 60mm

Drilling depth: max. 38 mm

Direction of rotation: right/left

Speed: 1,500 -7,500 rpm, frequency-controlled

Drive: 2.3 kW

Drill holder: d = 10 mm for quick-change system

Total drill length: 70 mm

Drill diameter: max. 35 mm

Spindle distance: 32 mm

Spindle type: individually controllable

Arrangement: see attached assembly plan

5. power control PC85

Modern control system based on
Windows PC.

PC85 hardware:

- PLC control according to international standard IEC 61131
- Operating system Windows XP (US) embedded
- IntelCore 2 Duo processor
- 17 inch TFT flat screen
- 1 SATA hard disk at least 160 GB
- Central USB port
- EtherNet connection 10/100 MBIT RJ45 (without switch)
- Provision of teleservice (modem)

Includes the general provision of
Teleservice capability of a machine incl.
corresponding modem as well as the free one

Use of teleservices within
the warranty period. After the warranty period is
for the use of the teleservice

corresponding teleservice contract
to complete.

- UPS for the PC (uninterruptible power supply)
- Potentiometer and emergency stop button

PC85 Software:

- PC85 CNC core with:
- Path control in all axes and parallel processes through multi-channel technology
- Look-ahead function for optimal speeds at the transitions
- Dynamic pre-control for the most precise contour accuracy
- PC85 software package with graphic operating programs:

- woodWOP:

for graphical, dialog-oriented creation of CNC programs

- TOOL DATABASE:

with graphical operator guidance

Management of tool data

- PRODUCTION LIST SOFTWARE:

to manage and create

Production lists for the individual

Production. The production sequence,

Target quantities, processing instructions

be deposited.

- MACHINE DATA COLLECTION SCHULER MDE Basic:

for recording the number of workpieces produced

- SOFTWARE PACKAGE FOR THE EXTERNAL PC:

- woodWOP:

for graphical, dialog-oriented creation of CNC programs

- 3D wood design:

with modern 3D interface for interactive

Design of corpus furniture with output of woodWOP programs

- woodAssembler:

for the visualization of woodWOP programs (MPR) in 3D.

This software allows you to assemble individual ones

workpieces to finished objects.

- woodWOP Mosaic

Software for woodWOP file management with graphical preview

- with this software, woodWOP

Files and entire directories are managed graphically

- programs can also be dragged and dropped

loaded or added

- woodType

Software for generating milling programs

for lettering and texts in all

available Windows true type fonts

Only executable under Windows NT4, W2K or XP or Vista

Copy protection of all software licenses via the

HOMAG Group license server. The product must

activated after installation.

Activation at www.eparts.de

6. CE SAFETY AND PROTECTION DEVICE

7. DOCUMENTATION

- Documentation in printed form and as

CD-ROM including spare parts catalog and wiring diagram

8. TECHNICAL SPECIFICATIONS

- The technical data sheets 9-817-11-8680,
9-817-11-8670, and 9-817-11-6871
are part of this offer or this order confirmation.

G.0001 number : 0246 1 piece
EXTENSION OF THE WORKING LENGTH TO 3,050 MM INCL.
ROLLER CONVEYOR

For workpieces with a maximum total length of
up to 3,050 mm is controlled by a software
Extension of the collet function or by
an automatic gripping function
Collet of the working area of the machine
enlarged. The additional role support
enables the safe feeding of the long
Workpieces (up to 3,050 mm) to the machine.
The role support has from the stop
an adjustment range of 1,200 mm to 1,850 mm
and is easy to disassemble. To a safe
Handling and gripping the long workpieces
at the lower edge are to be ensured
Rollers arranged at approx. 100 mm.

N.01 number : 1128 1 piece
HORIZ.DRILL GEAR WITH 4 SPINDLES X-DIRECTION
Integrated in the drill head of the basic machine
horizontal drilling gear.
Traversing range: see attached assembly plan

N.04 number : 1129 1 piece
HORIZ. DRILL GEAR WITH 2 SPINDLES Y-DIRECTION
Integrated in the drill head of the basic machine
horizontal drilling gear.
Traversing range: see attached assembly plan

N.07 number : 1012 1 piece
GROOVE SAW D=100MM (X-DIRECTION)
Grooving saw integrated in the drill head of the basic machine.
Tool diameter: 100 mm
Saw blade thickness: max. 5 mm
Cutting cross-section:
Refer to technical documentation

N.10 number : 1029 1 piece
MILLING MOTOR INCL. FREQUENCY CONVERTER, 5KW (ETP)
Milling motor including hydraulic quick-change system
and frequency converter for the manual
Tool change suitable.
Traversing range: see attached assembly plan
Tool holder: for shank diameter $d = 25$ mm
Tool diameter: 20mm max
Speed: 6,000-18,000 rpm infinitely programmable
Drive: frequency-controlled three-phase motor
Max. power at the tool: up to 5 kW (S1)
Speed increase drilling gear HIGH SPEED 7500
Speed: 1500-7500 rpm
(via the frequency converter of the milling motor)

Note: VKNR 6589 is not required!

D.01 Service: 8321 1 time

DOCUMENTATION AND CONTROL TEXTS: GERMAN

Scope of delivery:

1. Operating Instructions

consisting of operating and maintenance manuals
on DIN A4 paper and CD-ROM

2. On-screen operating texts

for machine operators, for POWERCONTROL

3. Spare part designations

consisting of CAD drawings and circuit diagrams on CD-ROM

- Delivery time: With machine delivery

A notice:

Only to be used for new machines from the

current price list. An offer for retrofitting

machines that have already been delivered is available on request.