

CNC machining center Weeke  
Type: BMG 110/Venture 114M  
Used machine - year 2017  
Machine number: 0-250-78-0104



BMG110/VENTURE114M

CNC-controlled machining center in mobile portal

Construction method for milling and drilling workpieces made of wood or Wood-like materials.

Designed for 1 main spindle, mounted on the right side of the portal traverse.

#### BASIC MACHINE

- Machine base frame in a stable moving gantry design
- Moving gantry can be moved in the X direction
- Cross support movable in Y and Z directions
- Direct suction of the processing units as well as separate suction Connection for the extraction system (on site)

#### PROGRAM-CONTROLLED EXTRACTION HOOD

The extraction hood is programmatically assigned to the workpiece thickness in 8 levels.

#### GUIDE SYSTEM AND DRIVE TECHNOLOGY

- dust-protected linear guide system
- X + Y direction: rack and pinion drive with servo drive
- Z direction: Ball screw with servo drive

Work table:

X = 3100 mm (length)

Y = 1250 mm (front stop)

Y = 1550 mm (rear stop)

Z = 160 mm (thickness)

260 mm (passage height without vacuum suction cup)

WEEKE quality package

- Energy chains (cable drag) in a closed version
- Linear guides in X and Y directions come with metal band cover

BUMPER safety technology with all-round safety monitoring

PAINT GRAY RDS 240 80 05

VENTURE 114 BASIC 10 KW - K-TABLE 'M'- PORTAL

DRILLING UNIT V12 HIGH SPEED 7500

including quick-change system and spindle clamping

Vertical drilling unit

Advance stroke Z direction: 60 mm

Drilling depth: max. 38 mm (up to 55 mm but with special drill)

Direction of rotation: right/left

Speed: 1,500 -7,500 1/min, 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

GROOVE SAW D=100MM (X DIRECTION)

Groove saw integrated into the drill head of the basic machine.

Tool diameter: 100 mm

Saw blade thickness: max. 5 mm

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#### DRILLING UNIT H4X

Horizontal drilling unit with 4 over program individually accessible drilling spindles.  
4 drilling spindles: grid 32 mm  
2 each in the X direction

#### DRILLING UNIT H2Y

Horizontal drilling unit with 2 over program individually accessible drilling spindles.  
2 drilling spindles: 1 each in the Y direction

#### TOOL CHANGE SPINDLE 10 KW HSK63, AIR COOLED

Automatic tool change spindle in combination with tool change magazine.  
Direction of rotation: right/left  
Speed: 1,500 - 24,000 rpm, continuously programmable  
Drive: frequency-controlled three-phase motor, max. power on the tool: up to 8.5 / 10 kW in continuous/intermittent operation (S1/S6-50%)  
Spindle lubrication: permanently lubricated with grease

#### C-AXIS UNIT INTERFACE

(360 degree interpolation axis)  
To accommodate the adapter units incl. pneumatic interface and infinitely variable swivel range.

#### EXTENSION C-AXIS FOR FLEX5 UNIT

- Coupling element for C-axis

#### TOOL CHANGE MAGAZINE 8 SPACES AT THE REAR

Automatic tool change magazine with 8 places.  
Arrangement: moving along the support in the X direction  
Magazine locations: 8 tool locations

#### LINEAR CHANGER FIXED ON THE SIDE, 8 PLACES

#### HP FLEX5 D=180 MM SAWING, MILLING, DRILLING UNIT

##### Technical data:

- Spindle exit: 1-sided
- Milling swivel range: 0 to +100 degrees
- Cutter holder: up to 16 mm shaft diameter
- Tool distance: max. 50 mm
- Tool diameter: max. 20 mm
- Drilling swivel range: 0 to +100 degrees
- Drill holder: up to 16 mm shaft diameter
- Tool distance: max. 50 mm
- Tool diameter: max. 10 mm
- Saw swivel range: 0 to +90 degrees
- Speed: max. 15000 1/min

#### POSITIONING AND FIXING THE WORKPIECE

##### BASIC CONSOLE CONSOLE TABLE MANUAL

- Tubeless vacuum clamping system

##### VACUUM CONNECTION FOR STENCILS

1 vacuum connection for stencils for the right and left working area  
6 vacuum connections for multi-clamps per working area

#### TWO-PART VACUUM SYSTEM FOR PENDULUM OPERATION

- Two-part vacuum system (field A / field B), via two separate foot switches.
- 4 pieces STOP BOLT  
(side or center stop bolt)

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pneumatically lowerable stop bolt

6 pieces

CONSOLE 1360 MM FOR 1-CIRCUIT VACUUM SYSTEM

Continuously positionable console in the X direction (1360 mm)

6 pieces

STOP BOLT FRONT, pneumatically lowerable longitudinal stop

4 pieces EST. WORKPIECE INSERTION AID, PER PIECE

6 pieces of REAR STOP BOLT, pneumatically lowerable longitudinal stop

LASER PEN FOR VACUUM SUCTION POSITIONING

Display of the exact suction cup positions with a laser beam (crosshair)

FIX THE WORKPIECE

12 pieces VACUUM SUCTION CLEANERS 114 X 160 X 100 MM (FOR 1-CIRCLE VACUUM SYSTEM)

6 pieces VACUUM SUCTION CLEANERS 75 X 125 X 100 MM (FOR 1-CIRCLE VACUUM SYSTEM)

ENERGY AND CONSUMABLES

OPERATING VOLTAGE 400 VOLTS

FREQUENCY 50HZ

VACUUM SYSTEM 63/76 M<sup>3</sup>/H

50 Hz = 63 m<sup>3</sup>/h

60 Hz = 76 m<sup>3</sup>/h

- Oil-lubricated rotary vane vacuum pump type Busch with a  
Rated output of 63 m<sup>3</sup>/h

ELECTRICAL EQUIPMENT

- Control cabinet firmly screwed to the right side of the machine

MOVABLE OPERATING TERMINAL ON A 10M LONG CABLE

ENERGY SAVING FUNCTION

- ecoPlus button to start standby mode,

POWER CONTROL WITH POWER TOUCH

Modern control system based on Windows PC

Hardware:

- Control center with 21.5" full HD multi-touch display in widescreen format

- PLC control according to international standard IEC 61131

- Control PC with Windows 7 operating system

PC KEYBOARD: GERMAN

SOFTWARE PACKAGE BASIC MACHINE EQUIPMENT

WOODWOP (INDIVIDUAL LICENSE)

- graphical, dialog-oriented CNC programming system

TOOL DATABASE

MACHINE DATA COLLECTION

PRODUCTION LISTING SOFTWARE

SOFTWARE FUNCTION: PUSHING A PROGRAM

OPTIMIZATION OF SPACE OCCUPANCY

WOODWOP OFFICE PROFESSIONAL (INDIVIDUAL LICENSE)

DXF interface

DOCUMENT

LANGUAGE SELECTION GERMAN

DOCUMENTATION ON DATA MEDIUM

DOCUMENTATION ON PAPER