

CNC machining center 4-Axis
Weeke OPTIMAT BHC Venture 2L
Used machine – year 2010



VENTURE 2L

CNC-controlled machining center for
manufacturing furniture parts made of wood or wood-like materials.

BASIC MACHINE

- stable steel frame construction
- direct extraction on the drilling gear and the milling spindle as well as a separate extraction connection for the extraction system (on site)

GUIDE SYSTEM AND DRIVE TECHNOLOGY

- dust-protected linear guide system
- rack drive in the X direction and ball screw in the Y and Z direction
- maintenance-free motors with high-resolution optical encoders
- digital drive controllers

AUTOMATIC CENTRAL LUBRICATION (X)

CONSOLE TABLE WITH LASER PIN POSITIONING AID

- hoseless vacuum clamping system
- the vacuum suction cups are clamped by vacuum.

Work table:

X = 4250 mm (length)

Y = 1250 mm (width)

Z = 125 mm (thickness)

8 workpiece supports that can be positioned continuously in the X direction,

8 rear stops

8 front stops

2 pneumatically lowerable side stop rulers on the right and left

6 controllable positioning aids made of plastic for heavy workpieces.

16 vacuum suction cups, 114x160x100 mm (L/W/H)

8 vacuum suction cups, 125x75x100 mm (L/W/H)

1 vacuum connection for templates for the right and left work area

2 vacuum generators with a total output of

180/216 m³/h, 50/60 Hz (2 x 90/108 m³/h)

LASER PEN FOR VACUUM SUCTION CUP POSITIONING

CONFIGURATION

V19, H4X/2Y, N1 X-Y 90°, F1-HSK63-9 KW,

C-AXIS, W14 REAR

V19 HIGH SPEED 7500

incl. quick-change system and spindle clamp

Vertical drilling unit (can be controlled individually)

Direction of rotation: right/left

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

H4X/2Y

Horizontal drilling unit with 6 individually accessible drilling spindles.

4 drilling spindles: 32 mm grid

2 each in the X direction

2 drilling spindles: 1 each in the Y direction

Direction of rotation: right/left

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

N1 X-Y 90°

Groove saw unit for machining in the X-Y direction, can be swiveled 90°.

Cutting depth: 30 mm

CNC machining center 4-Axis
Weeke OPTIMAT BHC Venture 2L
Used machine – year 2010



Speed: 1,500 - 7,500 rpm frequency controlled
Tool diameter: 125 mm

F1-HSK63-9 KW

Automatic tool change spindle in combination with tool change magazine.
Tool holder: HSK63
Direction of rotation: right/left
Speed: 1,250 - 24,000 rpm, continuously programmable
Drive: frequency-controlled three-phase motor
Max. power on the tool: up to 7.5 / 9 kW
Cooling: air

C-AXIS UNIT INTERFACE

For holding the adapter units including pneumatic
Interface and continuously variable swivel range of 360°.
C-axis adjustment range: 360 degrees
Torque drive: for 3-point support
Gearbox: helical gear pinions

W14 REAR

Automatic tool change magazine with 14 spaces.
Arrangement: travels along the support in the X direction
Tool holder: HSK63
Magazine locations: 14 tool locations

TOOL CHANGE AUXILIARY DEVICE

Auxiliary device for automatically loading the tool changer.

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
- TFT flat screen 17 inch

PC85 software:

- Path control in all axes
- PC85 software package with graphic operating programs:
 - woodWOP
 - TOOL DATABASE
 - PRODUCTION LIST SOFTWARE
 - MACHINE DATA ACQUISITION SCHULER MDE Basic
 - SOFTWARE FUNCTION SLIDE
 - 3D NC SIMULATION AND TIME CALCULATION
- SOFTWARE PACKAGE FOR THE EXTERNAL PC:
 - woodWOP
 - woodWOP DXF Basic
 - 3D woodDesign
 - woodAssembler
 - woodWOP Mosaic
 - woodType

CE SAFETY AND PROTECTION DEVICE

- Protective grille on the side and rear area
- Three-part safety mat in the front area

WEEKE quality package

DOCUMENTATION

veneER AUXILIARY STOPS FOR TOP LAYER OVERLAY - 8 PIECES

2 pieces of SWITCH PAD