CNC BAZ Weeke
Type: Optimat BHC Venture 3
Used machine - year 2004

VENTURE 3

CNC-controlled machining center for commission-based production
production of furniture parts made of solid wood and similar materials.

BASIC MACHINE
- Machine base frame and traveling column steel construction
- Traveling column can be moved in the X direction
- Cross support can be moved in Y and Z direction

GUIDANCE SYSTEM AND DRIVE TECHNOLOGY
- Axis movement a compact linear guide system,
- Rack and pinion drive in the X direction and ball screw in
  Y and Z direction.

Traversing paths of the axes:
X = 3810mm
Y = 1735mm
Z=225mm
- Fully digital drive system

consisting of:
- maintenance-free AC servomotors with high-resolution
  optical encoders and high system accuracy
- digital drive controllers with high reliability
  and fast cycle time (2 ms)
- digital control by fiber optic bus system

CONSOLE TABLE WITH LED POSITIONING SYSTEM
(DIODE LIGHT STRIP)
work table:
X = 3250mm (length) Y = 1220mm (width) Z = 125mm (thickness)
6 workpiece support consoles that can be continuously adjusted in the X direction
1 optical LED positioning system (diode light strip) in X
6 optical LED positioning systems (diode light strip) for Y
4 stops in the rear
6 attacks in the front area
4 stops for lateral positioning of the workpieces
6 folding stops to be mounted manually
4 controlled workpiece insertion aids (plastic material),
12 large vacuum blocks, 114x160x100 mm (L/W/H)
6 vacuum blocks for narrow parts, 125x75x100 mm (L/W/H)
1 vacuum connection for stencils
1 low-maintenance vacuum generator in direct drive design, 100 m3/h.

1 hand terminal
With potentiometer and emergency stop button to control the machine

MACHINING CONFIGURATION
V19, H4X/2Y, N1, F1-HSK-9KW, C-AXIS,
W8 REAR
V19 HIGH SPEED 7500
Direction of rotation: right/left
Speed: 1,500 - 7,500 rpm, frequency-controlled
Arrangement: 9 spindles X-direction (row of holes)
8 spindles Y-direction (construction)
2 spindles separate
H4X/2Y
Horizontal drilling unit with 4 drilling spindles that can be called up individually.
2 drilling spindles each (32 mm grid) arranged on the right and left in the X-direction.

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Direction of rotation: right/left
1 drilling spindle each at the front and rear arranged in the Y-direction.
Direction of rotation: left

N1
Grooving saw unit arranged in the X direction.
Direction of rotation: right
Saw blade holder: 30 mm
Tool diameter: 100 mm
Saw blade thickness: max. 5 mm
F1-HSK63-9KW
Tool change spindle in precision design,
Direction of rotation: right/left Speed: continuously programmable from 1,250 - 24,000 rpm
Spindle lubrication: grease lubricated for life
Bearing: hybrid bearing (ceramic)
C-AXIS UNIT INTERFACE
C-axis adjustment range: 360 degrees
W8 REAR
Automatic tool change magazine for 8 places (plate changer)

CNC CONTROL AND SOFTWARE
The electrical control cabinet with integrated
Control center is positioned free-standing.
HARDWARE: POWER CONTROL SYSTEM
ETHERNET CONNECTION 10/100 MBIT FOR MACHINE RJ45 (WITHOUT HUB)
SOFTWARE: POWER CONTROL SYSTEM
- WOODWOP
- MACHINE DATA ACQUISITION (MDE)
- PRODUCTION LIST
- NC SIMULATION AND TIME CALCULATION
Further checks are possible:
- Time calculation approx. +/- 10%
- Traversing range check
- Collision check
- Checking the vacuum cup position
  Simulates all 3-axis machining Supplied with copy protection (dongle)
- SOFTWARE FUNCTION, PUSH A PROGRAM

EXTERNAL PERSONAL COMPUTER SOFTWARE
- 3D WOOD DESIGN
- WOODWOP FOR PC

REMOTE DIAGNOSIS TELESERVICE, MODEM – only with contract!

CE SAFETY AND PROTECTION DEVICE
- Protective grilles in the side and rear areas
- Three-part safety mats in the front area

UPS (UNINTERRUPTIBLE POWER SUPPLY)

WEEKE quality package

DOCUMENTATION OPERATING INSTRUCTIONS AND CONTROL TEXTS: GERMAN

HSK63 DRILLING/SAWING MANUALLY INCLINEABLE, 90 DEGREE
HSK63 DRILLING/MILLING/SAWS, 2 SPINDLES
HSK63 LOCK CASE, D=16 MM, 2 SPINDLES, WITH EXHAUST NOZZLE

PROTECTIVE GRILLE LEFT AND REAR is not required, must be secured on site or mounted on a wall! NOT CE COMPLIANT!