

CNC machining center - used machine, year 2007

model: Weeke Type Venture 4M

#### **VENTURE 4M**

CNC-controlled processing center for the production of furniture parts made of wood or wood-like materials.

##### 1. BASIC MACHINE

- stable steel frame construction
- Movement of the axes in X, Y and Z
- Direct extraction at the drilling gear and the milling spindle

##### 2. GUIDANCE SYSTEM AND DRIVE TECHNOLOGY

- dust-proof linear guide system
  - Rack and pinion drive in the X direction as well
- Ball screw in Y and Z direction

Traversing paths of the axes:

X = 3860mm

Y = 1880mm

Z1= 410mm

Z2= 185mm

- Digital drive system in X, Y and Z direction (Sercos)
- Axes speed:

vector speed

X/Y = 110m/min Z = 20m/min

##### 3. CONSOLE TABLE WITH DIODE LIGHT BAND

- Hose-free vacuum clamping system for clamping panel materials
  - Light-emitting diodes (LEDs) in a 5 mm grid show the programmed X and Y position of the workpiece supports and the clamping elements
- work table:

X = 3250mm (length)

Y = 1250mm (width)

Z = 125mm (thickness)

consisting of:

6 workpiece supports that can be positioned steplessly in the X direction

1x LED for positioning the workpiece supports in the X direction

6x LED for positioning the clamping elements in the Y direction

8 rear stops for workpiece widths over 960 mm

6 front stops for workpiece widths up to 960 mm

1 side fence that can be lowered pneumatically

for the right working field including electr. end position query

1 side fence that can be lowered pneumatically

for the left working area including electr. end position query

4 folding stops to be mounted manually for workpieces with a top layer overhang for the front stops

4 folding stops to be mounted manually for the left (2) and right (2) stop rulers

4 controllable plastic positioning aids for heavy workpieces

12 vacuum cups, manual, 114x160x100 mm (L/W/H)

6 vacuum cups, manual, 125x 75x100 mm (L/W/H)

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

1 vacuum generator, rated capacity 100 m<sup>3</sup>/h

1 Preparation for retrofitting two pneumatic supply units for pneumatic clamping elements (Vk.-Nr. 0861)

##### 4. CONFIGURATION

V19, H4X/2Y, N1 X-Y 90°, F1-HSK63-12 KW,

C AXIS, W14 REAR, W14 R SIDE

V19 HIGH SPEED 7500 incl. quick-change system and spindle clamp

Vertical drilling unit (individually controllable with variable speed range).

Arrangement: 9 spindles X-direction (row of holes)

8 spindles Y-direction (construction)

2 spindles separate

H4X/2Y

Horizontal drilling unit with 6 drilling spindles that can be called up individually via the program.

4 drilling spindles: grid 32 mm 2 each in X-direction

2 drilling spindles: 1 each in Y-direction

N1 XY 90°

Grooving saw unit for processing in the X-Y direction can be swiveled by 90°.

Depth of cut: 30 mm

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

F1-HSK63-12KW

Direction of rotation: right/left

Speed: 1,250 - 24,000 rpm infinitely programmable

Drive: frequency-controlled three-phase motor

C-AXIS UNIT INTERFACE

(360 degree interpolation axis)

To accommodate the adapter units including pneumatic interface and infinitely variable swivel range of 360°.

C-AXIS SUITABLE FOR RETROFIT FLEX-5 AGGREGAT

W14 REAR

Automatic tool change magazine with 14 places.

W14 RIGHT SIDE

Automatic tool change magazine with 14 places.

#### 4.1 TOOL CHANGING AUXILIARY DEVICE

#### 5. Power control PC85T

Modern control system based on Windows PC

Hardware:

- PLC control according to international standard IEC 61131
- Operating system Windows XP (US) embedded
- PC with at least 2 GHz and 512 MB RAM
- 17 inch TFT flat screen
- 1 hard disk at least 40 GB
- 3 1/2 inch floppy disk drive
- CD-RW drive suitable for reading and writing CDs
- Provision of teleservice (modem)
- UPS (Uninterruptible Power Supply) protects the computer from
- Operating terminal with potentiometer and emergency stop switch.

Software:

- PC85T CNC core with:
- Path control in all axes
- 3D NC SIMULATION AND TIME CALCULATION (1 license)
- Software package for external PC:
- woodWOP for graphical, dialog-oriented creation of CNC programs
- Basic DXF postprocessor for connecting 2D CAD programs to woodWOP

#### 6. CE SAFETY AND PROTECTION DEVICE

#### 7. WEEKE quality package

#### 8. DOCUMENTATION

- Documentation in printed form and as CD-ROM including spare parts catalog and wiring diagram

HSK63 LOCK CASE D=20 MM, 2 SPINDLES

M. EXHAUST NOZZLE

Tools are not included!

FLEX-5 SAW, MILLING, DRILLING UNIT FOR WZW

HSK63 MILLING UNIT, 1 SPINDLE, angle adjustable

CHIP TRANSPORT DEVICE 3250 MM, LEFT DISPATCH

DOCUMENTATION AND CONTROL TEXTS: GERMAN  
on CD ROM

Delivery complete excluding tools and tool holders!