

Drilling and dowel inserting machine
Homag (Weeke) ABD060/12
Used machine - year 2015



OPTIMAT ABD060/12

CNC CONTROLLED DRILLING AND DOWEL INSERTING MACHINE
for the production of furniture parts made of wood or
wood-like materials

BASIC MACHINE

- Stable steel frame construction combined with highly rigid, vibration-absorbing machine bed
- Movement of the axes in the X, Y and Z directions
- Ball screw (Y and Z direction) and rack and pinion drive (X direction)
- Digital AC servo motor
- Support table with left and right side stop as well rear stop rail
- Lateral stops can be lowered pneumatically, manual control via selector switch
- Center stop can be lowered pneumatically, manual control via selector switch
- 4 clamping cylinders from above, manually adjustable

SAFETY AND PROTECTION DEVICE

- According to CE standard

WORKPIECE DIMENSIONS

Length: max. 1,250 mm min. 20 mm

Width: max 800mm min 20mm

EQUIPMENT

- 1 horizontal drilling gear with 3 individually retrievable spindles, Spindle stand: 32 mm
- 1 dowel unit (at a distance of 32 mm from the drilling spindle)
- 1 glue unit with adjustable amount of glue
- Standard dowel dimension: 8x30 mm / 8x35 mm
- Vibration conveyor for automatic dowel feeding

LOW PRESSURE GLUE PUMP

Double membrane pump 1:1 (6 bar) including filter unit, low-noise, compact with low energy consumption for feeding low-viscosity suitable for glue.

PRE-GLUED DOWELS

Optionally, the system can be operated with pre-glued dowels.

ENERGY SAVING FUNCTION

- ecoPlus button to start stand-by mode,

powerControl

Modern control system

powerControl Hardware:

- PLC control according to international standard IEC 61131 Embedded with Windows XP (US) operating system
- 17 inch TFT flat screen

powerControl Software:

- powerControl software package with graphic operating programs:
- woodWOP for graphical, dialog-oriented creation of CNC programs
- ABDWork:

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graphical user interface

1 piece

GLUE FLOW MONITORING AND FOG OILER FOR GLUE NOZZLE

1 piece

PNEUMATIC FEED CONTROL OF DRILLING FEED

2 pieces

ADDITIONAL CLAMPING CYLINDER TYPE ABD

- Manually adjustable clamping cylinder.

1 piece

ANCHOR SPECIAL DIMENSIONS TYPE ABD

- possible special dimensions (in mm):

5x30 / 6x30 / 6x35 / 6x40 / 8x40

10x30 / 10x35 / 10x40 / 10x50 /

10x60 / 12x40 / 12x50 / 12x60.

1 time

BARCODE SOFTWARE

- 'woodScan' to prepare the control for
the automatic transfer of the 1D or 2D barcode from the barcode reader

1 time

COMMISSIONING WITH THIRD-PARTY HARDWARE BARCODE HAND SCANNER

The machine control is used to connect a

Barcode handheld scanner via serial RS232

interface prepared. The barcode scanner

must be approx. 3 weeks before delivery of the machine

be sent to WEEKE.

1 piece

CUSTOMIZATION OF BARCODE SOFTWARE

1 time

ORDER SPECIFIC APPLICATION SOFTWARE

1 time

DOCUMENTATION AND CONTROL TEXTS: GERMAN