

Quotation CENTATEQ P-110 (Venture 115 BMG 110/31/F/K)

Configuration Overview

| Position | Description | Quantity |
|---|---|----------|
| P1.1.2.1 | CENTATEQ P-110 (VENTURE BMG110/31/F/K) | 1 |
| P1.1.2.2 | TYPE PLATE FOR THE UNITED KINGDOM | 1 |
| P1.1.2.2.1 | TYPE PLATE FOR THE UNITED KINGDOM | 1 |
| P1.1.2.3 | PAINTING | 1 |
| P1.1.3.1 | AROUND OPERATION PACKAGE 1 | 1 |
| P1.1.3.2 | DRIVE5CS FUTURE 12 KW | 1 |
| P1.1.3.3 | K TABLE LED 'M' | 1 |
| Fixed functions | | |
| P1.1.4.1.1 | FIXED LATERAL LINEAR TOOL CHANGER, 10 POSITIONS | 1 |
| P1.1.4.2.1.1 | TOOL CHANGER PLATE 14-PART D=130 | 1 |
| P1.1.4.2.2.1.1.1.1 | DRILLING GEAR WITH 12 SPINDLES: V12 (SW/32) | 1 |
| P1.1.4.2.2.1.1.2.1 | DRILLING GEAR WITH 4 SPINDLES: H4X | 1 |
| P1.1.4.2.2.1.1.3.1 | DRILLING GEAR WITH 2 SPINDLES: H2Y | 1 |
| P1.1.4.2.2.1.1.4.1 | GROOVE SAW, CAN BE SWIVELED 0-90° | 1 |
| P1.1.4.2.2.2.1.1 | PROCESSING SPINDLE 12 KW DRIVE5CS | 1 |
| P1.1.4.2.2.2.1.2 | EXTRACTION HOOD 8-STAGE 5-AXLE | 1 |
| P1.1.4.2.2.2.1.3 | BRACKET FOR TWO Z AXES | 1 |
| P1.1.4.3.1 | TOOL LENGTH CHECK | 1 |
| Workpiece fixing and positioning | | |
| P1.1.6.1 | BASIC STRUCTURE OF CONSOLE TABLE MANUAL 1-CIRCUIT | 1 |
| P1.1.6.2.1.1 | SUPPORT PROFILE FOR X STOP | 2 |
| P1.1.6.2.1.2.1 | STOPPER BOLT FOR "COVERING LAYER" FOLDING ATTACHMENT | 4 |
| P1.1.6.2.2.1 | CONSOLE Y=1360 MM FOR K TABLE | 8 |
| P1.1.6.2.2.2.1 | FRONT STOP PINS | 8 |
| P1.1.6.2.2.3.1 | LED POSITIONING SYSTEM, Y DIRECTION | 8 |
| P1.1.6.2.2.4.1 | PNEUMATICALLY LOWERABLE INSERTION AID | 4 |
| P1.1.6.2.9.1.1 | REAR STOP PINS | 8 |
| P1.1.6.2.11 | TWO-PART VACUUM SYSTEM FOR SHUTTLE OPERATION | 1 |
| P1.1.6.2.12 | VACUUM CONNECTION FOR TEMPLATES | 1 |
| P1.1.6.2.13.1 | LED POSITIONING SYSTEM, X DIRECTION (3XXX MM) | 1 |
| P1.1.6.2.14 | MANUAL STOP FOR SURFACE OVERHANG | 8 |
| P1.1.6.2.15 | SUPPLY UNIT FOR PNEUMATIC CLAMPING ELEMENTS, RIGHT AND LEFT WORK AREA | 1 |
| Fixing workpiece | | |
| P1.1.6.3.1 | VACUUM SUCTION UNIT 115X160X100 MM K-TABLE 1-CIRCUIT | 12 |
| P1.1.6.3.2 | VACUUM SUCTION UNIT 125X75X100 MM K-TABLE 1-CIRCUIT | 8 |
| Energy and supply | | |
| P1.1.7.1 | VACUUM SYSTEM 126/152 MP/H | 1 |
| P1.1.7.2 | ENERGY-SAVING FUNCTION: | 1 |
| P1.1.7.3 | SCPS FOR PC | 1 |
| Control machine | | |
| P1.1.8.1 | POWERCONTROL V2 WITH POWERTOUCHE | 1 |
| P1.1.8.2 | PC KEYBOARD: ENGLISH | 1 |

| Position | Description | Quantity |
|-----------------|--|-----------------|
| P1.1.8.3 | MOBILE OPERATING TERMINAL (10 M) | 1 |
| P1.1.8.4 | CONTROL CABINET FIRMLY MOUNTED | 1 |
| P1.1.8.5 | TAPIO READY | 1 |
| P1.1.8.6 | ETHERNET CNC NETWORK CONNECTION | 1 |
| P1.1.8.7 | WIRED MANUAL OPERATION FOR RUN-IN MODE | 1 |
| P1.1.8.8 | OPERATION COMFORT PACK | 1 |

Operating machine

| | | |
|------------|--|---|
| P1.1.9.1.1 | WOODWOP FOR MACHINE | 1 |
| P1.1.9.1.2 | WOODWOP DXF-IMPORT BASIC (SINGLE-USER LICENSE) | 1 |
| P1.1.9.1.3 | 3D CNC SIMULATOR MACHINE (SINGLE-USER LICENSE) | 1 |

HOMAG CNC processing center

CNC-controlled machining center in gantry design for machining wood and wood-like materials. Designed for 1 main spindle, mounted on the right side of the gantry cross rail.

Basic machine

- Machine base frame in sturdy steel frame design
- Gantry driven on both sides for high accuracy and dynamics
- linear guiding systems with dust protection
- rack and pinion drives for X and Y axis
- - Circulating ball spindle for Z axis
- Drive technology with digital control methods for high dynamics and contour accuracy
- Central connection for the customer's extraction system

- Travel speeds:

| | | | |
|--------------------------|--|----|-------|
| Vector speed of X/Y axis | | 60 | m/min |
| X axis | | 35 | m/min |
| Y axis | | 50 | m/min |
| Z axis | | 15 | m/min |

Workpiece parameters**Workpiece length X, all units**

| | | | |
|-----------------------|-----|------|----|
| Individual processing | Max | 3100 | mm |
| Shuttle machining | Max | 1025 | mm |

Workpiece length X, with tool diameter 25 mm

| | | | |
|-----------------------|-----|------|----|
| Individual processing | Max | 3275 | mm |
| Shuttle machining | Max | 1025 | mm |

Workpiece width Y, front stop

| | | | |
|--------------------------|-----|------|----|
| All units | Max | 1250 | mm |
| With tool diameter 25 mm | Max | 1250 | mm |

Workpiece width Y, back stop

| | | | |
|--------------------------|-----|------|--|
| All units | Max | 1230 | |
| With tool diameter 25 mm | Max | 1405 | |

Workpiece thickness

| | | | |
|--------------------------|-----|-----|----|
| Including clamping means | Max | 260 | mm |
|--------------------------|-----|-----|----|

Notes

- In individual cases, the permissible workpiece parameters may be reduced depending on the machining process. For details, see the technical data sheets
- The minimum workpiece size depends on: clamping devices, workpiece surface and contour
- The operator is responsible for the use of suitable materials and production equipment

Electrical equipment

- Operating voltage 400 V, 50 Hz
- Control cabinet firmly mounted on the machine bed
- Installed according to European standard EN 60204-1
- Including a potential-free contact for controlling a customer-side suction slide
- The machines are not suitable for connection to an RCD due to operational leakage currents. Instead, it is advisable to route the supply line so as to prevent ground faults or short circuits (e.g. in accordance with DIN VDE 0100-520/521.11)
- Prescribed ambient temperature: + 5 to + 40°C (at ambient temperature >35°C or humidity > 85%, a cooling unit for the switch cabinet is recommended)

Safety and protective equipment

- Pressure-sensitive bumpers according to EN1780-3 for safety monitoring for effective protection of the operating personnel
- EG conformity (CE) according to the currently valid machinery directive for single machine operation
- In accordance with the machinery directive, an additional EU certificate of conformity is required for interlinked machine operation (cells/factory systems) in the defined countries
- Accessibility of the work areas:
 - The machine is accessible from all sides
 - The machine has two work areas, selectable free travel modes allow free travel of the individual work areas
 - For placing and removing workpieces with maximum possible placement length in single operation; the workpiece must be guided under the safety housing
- The prerequisite for our warranty/product liability is the unlimited compliance with the original operating instructions delivered with the machine, including the safety regulations

HOMAG quality package

- Linear guides in the X, Y and Z directions are covered with a metal band to prevent dirt deposits
- TÜV certificate according to DIN EN ISO 9001:2015
- Energy-efficient drive units in accordance with Commission Regulation (EC) no. 640/2009
- Program-controlled extraction hood. The extraction hood is program-controlled in eight steps according to the thickness of the workpiece. It is therefore always at the ideal height above the workpiece and ensures optimum extraction behavior
- Energy-saving function:
 - ECO Plus button to start stand-by operation – this can be activated during the last machining operation and has the following effect after the end of the program:
 - Drives are switched off so that they have no power
 - The vacuum pumps are switched off while taking into account the minimum running time
 - If the machine is not in production, the control voltage is switched off after a preset time
 - If no workpiece is clamped, the vacuum pump is switched off by means of preset time

Technical data and notes

- Connection values and installation instructions for extraction, pneumatics, compressed air and electricity can be found in the separate installation plan
- Floor conditions must correspond to the foundation plan

HOMAG quality package

- Linear guides in the X, Y and Z directions are covered with a metal band to prevent dirt deposits
- TÜV certificate according to DIN EN ISO 9001:2015
- Energy-efficient drive units in accordance with Commission Regulation (EC) no. 640/2009
- Program-controlled extraction hood. The extraction hood is program-controlled in eight steps according to the thickness of the workpiece. It is therefore always at the ideal height above the workpiece and ensures optimum extraction behavior
- Energy-saving function:
 - ECO Plus button to start stand-by operation – this can be activated during the last machining operation and has the following effect after the end of the program:
 - Drives are switched off so that they have no power
 - The vacuum pumps are switched off while taking into account the minimum running time
 - If the machine is not in production, the control voltage is switched off after a preset time
 - If no workpiece is clamped, the vacuum pump is switched off by means of preset time

Technical data and notes

- Connection values and installation instructions for extraction, pneumatics, compressed air and electricity can be found in the separate installation plan
- Floor conditions must correspond to the foundation plan

| | | |
|--|-------------------------|--------------------|
| P1.1.2.2 | Article no. 0249 | Quantity: 1 |
| <hr/> | | |
| Type plate for the United Kingdom | | |
| The CE mark for product safety was replaced by the new British UKCA mark after Brexit. Machines to be exported to the UK (England, Wales and Scotland) must have a UKCA mark as of January 01, 2023. The CE mark remains valid during the transition period until the end of 2022. | | |
| <ul style="list-style-type: none">• UKCA mark on machine type plate• UKCA declaration of conformity | | |
| P1.1.2.2.1 | Article no. 0249 | Quantity: 1 |
| <hr/> | | |
| Type plate for the United Kingdom | | |
| The CE mark for product safety was replaced by the new British UKCA mark after Brexit. Machines to be exported to the UK (England, Wales and Scotland) must have a UKCA mark as of January 01, 2023. The CE mark remains valid during the transition period until the end of 2022. | | |
| <ul style="list-style-type: none">• UKCA mark on machine type plate• UKCA declaration of conformity | | |
| P1.1.2.3 | Article no. 0500 | Quantity: 1 |
| <hr/> | | |
| Painting | | |
| Paint the machine and protective fence posts in RAL 9003 signal white Design stripes, protective fence fields, protective doors and column in RAL 7021 black gray | | |
| P1.1.3.1 | Article no. 9220 | Quantity: 1 |
| <hr/> | | |
| around operation package 1 | | |
| Saving on equipment package | | |
| <ul style="list-style-type: none">• Includes:<ul style="list-style-type: none">Convenient operationTool length monitoring | | |
| P1.1.3.2 | Article no. 1255 | Quantity: 1 |
| <hr/> | | |
| DRIVE5CS Future 12 kW | | |
| Price advantage equipment package. Includes: | | |
| <ul style="list-style-type: none">• Processing spindle• Drilling gear• Tool changer | | |
| P1.1.3.3 | Article no. 1237 | Quantity: 1 |
| <hr/> | | |
| K table LED 'M' | | |
| Saving on table package | | |
| <ul style="list-style-type: none">• Consoles and insertion aids• Stops• LED setup aid | | |

FIXED FUNCTIONS

P1.1.4.1.1

Article no. 1724

Quantity: 1

Fixed lateral linear tool changer, 10 positions

For transferring and receiving tools and units with HSK-F83

- Mounted on the side of the machine bed
- With integrated tool transfer position

Technical data for the tool changer

| | | | |
|--------------------------------|-----|-----|-----|
| Number of slots | | 10 | pcs |
| Distance between the positions | | 108 | mm |
| Weight of tools incl. chuck | Max | 6 | kg |
| Weight of units | Max | 8 | kg |
| Weight when fully equipped | Max | 40 | kg |

Technical data for tools/units

| | | | |
|---|-----|--------|----|
| Tool diameter | | 10x104 | mm |
| Tool diameter (position 1; 3–10) | Max | 260 | mm |
| Tool diameter of saw (with holder A=50 mm) (position 2) | Max | 350 | mm |
| Tool/unit length | Max | 295 | mm |

When using position 2 for a saw blade, positions 1 and 3 remain free, adjacent slots of units remain free. The weight distribution of tools and units in the tool changer must be symmetrical. When accessing the linear changer, restrictions in shuttle operation must be observed. For more details, see the technical data sheets.

Contained in the package

- Future

P1.1.4.2.1.1

Article no. 1697

Quantity: 1

Tool changer plate 14-part d=130

For tools and units with HSKF83

- Attached to the gantry

TLF technical data

| | | | |
|----------------------------|-----|-----|-----|
| Number of slots | | 14 | pcs |
| Distance of the slots | | 136 | mm |
| Weight when fully equipped | Max | 70 | kg |

Technical data for tools/units

| | | | |
|------------------------------|-----|--------|----|
| Diameter | Max | 14x130 | mm |
| Diameter | Max | 260 | mm |
| Tool/unit length | Max | 295 | mm |
| Weight of tools incl. holder | Max | 6 | kg |
| Unit weight | Max | 10 | kg |

The weight of the tools and units in the tool changer must be distributed symmetrically. For more details, see the technical data sheets.

Contained in the package

- Future

P1.1.4.2.2.1.1.1.1

Article no. 0874

Quantity: 1

Drilling gear with 12 spindles: V12 (SW/32)

- + Quick-release system for all vertical drilling spindles to reduce setup time
- + All spindles can be called up individually for high flexibility
- + Mechanical feed lift locking device (spindle clamping) for reliable attainment of the drilling depth
- + Program-controlled adjustment of the drill speed for highest drilling quality
- + Pneumatic pre-load and retraction stroke for short drilling cycles
- + Standing drill spindle sleeve with internal bearing for long-lasting use

Technical data:

| | | | |
|-----------------------------------|--|-----|----|
| Drive motor, frequency-controlled | | 2.3 | kW |
|-----------------------------------|--|-----|----|

| | | | |
|-----------------|-----|------|-------|
| Speed, variable | Min | 1500 | 1/min |
| | Max | 7500 | 1/min |

Vertical drill spindles:

| | | | |
|---|-----|----|-----|
| Number of | | 12 | pcs |
| Advance stroke | | 60 | mm |
| Spindle distance (grid) | | 32 | mm |
| Drill diameter | Max | 35 | mm |
| Overall drill length | Max | 70 | mm |
| Drilling depth | Max | 38 | mm |
| Drilling depth with special drills and restrictions | Max | 55 | mm |

For layout, travel paths and possible mounting units for the drilling gear, see technical data sheets including extraction hood without tools

Contained in the package

- Future

P1.1.4.2.2.1.1.2.1

Article no. 0796

Quantity: 1

Drilling gear with 4 spindles: H4X

- + Weldon clamping system for all horizontal drilling spindles
- + All spindles can be called up individually for high flexibility

Horizontal drill spindles

| | | | |
|--|-----|----|-----|
| Number in X direction | | 4 | pcs |
| Advance stroke | | 60 | mm |
| Distance between spindles | | 32 | mm |
| Drill diameter | Max | 20 | mm |
| Overall drill length | Max | 70 | mm |
| Drilling depth | Max | 38 | mm |
| Drilling height in Z direction, from the upper edge of workpiece | Max | 38 | mm |

Technical data of the drive motor is described in the vertical drilling gear
For information on the layout, travel paths for the drilling gear, refer to technical data sheets without tools

Contained in the package

- Future

P1.1.4.2.2.1.1.3.1

Article no. 0798

Quantity: 1

Drilling gear with 2 spindles: H2Y

- + Weldon clamping system for all horizontal drilling spindles
- + All spindles can be called up individually for high flexibility

Horizontal drill spindles

| | | | |
|--|-----|----|-----|
| Number in Y direction | | 2 | pcs |
| Advance stroke | | 60 | mm |
| Distance between spindles | | 32 | mm |
| Drill diameter | Max | 20 | mm |
| Overall drill length | Max | 70 | mm |
| Drilling depth | Max | 38 | mm |
| Drilling height in Z direction, from the | Max | 38 | mm |

upper edge of workpiece

Technical data of the drive motor is described in the vertical drilling gear
For information on the layout, travel paths for the drilling gear, refer to technical data sheets without tools

Contained in the package

- Future

P1.1.4.2.2.1.1.4.1

Article no. 1011

Quantity: 1

Groove saw, can be swiveled 0–90°

| | | | |
|---------------------------------|-----|-------|-----------------|
| Number of | | 1 | pcs |
| Orientation, rotating | | 0/90 | ° |
| Saw blade diameter | Max | 125 | mm |
| Cutting width | Max | 5 | mm |
| Cutting width with special tool | Max | 8.5 | mm |
| Cutting depth | Max | 30 | mm |
| Machining cross-section: | Max | 70 | mm ² |
| Mounting flange, diameter | | 30 | mm |
| Reference diameter | | 48 | mm |
| Countersunk head screws, M5 | | 4 | pcs |
| Direction of rotation | | Right | |

Cutting width 8.5 mm with reduced cutting force design, for saw blade see technical data sheets/machine documentation
Without tools

Contained in the package

- Future

P1.1.4.2.2.1.1

Article no. 1009

Quantity: 1

Processing spindle 12 kW Drive5CS

Cardanic five-axe head for trimming, drilling and sawing at any angle to the workpiece with an interface for HSK-F83

- + Three-phase asynchronous motor with current control
- + Active and closed cooling system with temperature monitoring to avoid thermal damage and increase service life

Technical data

| | | | |
|---|-----|-------------|-------|
| HSK DIN 69893 | | {HSK-F83} | |
| Spindle power S6 (cyclic operation) | | 12 | kW |
| Spindle output S1 (continuous operation) | | 9 | kW |
| Speed | | 1500–24.000 | 1/min |
| Full rated power | | 12000 | 1/min |
| Weight of tool incl. chuck* | Max | 6 | kg |
| Length of tool incl. chuck* | Max | 230 | mm |
| Diameter of milling tool* | Max | 180 | mm |
| Saw blade diameter (tool chuck with A-dimension=50 mm)* | Max | 350 | mm |
| *different values on request | | | |
| Angle of rotation of C axis at A=0 degrees | | +/- 361 | ° |
| Angle of rotation (C axis) | | +/- 100 | ° |
| Block dimension of the spindle (spindle axis — motor housing) | | 63 | mm |
| For additional information, see technical data | | | |

data

Without tool chuck and tools

Where A does not equal 0 degrees, the angle in the C axis is reduced

Increased requirements in relation to process forces, surface quality or contour accuracy require a prior examination and production of limit samples. Materials and (where necessary) clamping devices, tools and programs must be provided for this purpose.

For interpolating 5-axis processing, the woodWOP CAM plug-in professional version (available as an option) or a suitable external CAD/CAM system is required

Contained in the package

- Future

| | | |
|---|-------------------------|--------------------|
| P1.1.4.2.2.1.2 | Article no. 1013 | Quantity: 1 |
| <p>Extraction hood 8-stage 5-axe Room suction unit for 5-axe processing with 8-stage height adjustment</p> <ul style="list-style-type: none"> + Optimal hood position in relation to the workpiece for efficient chip collection • The stage is controlled depending on the workpiece thickness, tools and position of the A axis or through specification • The hood position is automatically adjusted to the workpiece thickness and controlled upward for swiveled processing with long tools, the suction effect is reduced accordingly <p>Due to the system, the cleaning of the suction device is reduced for different machining processes. Full encapsulation of the machine is recommended for optimal retention of impurities.</p> | | |
| P1.1.4.2.2.1.3 | Article no. 7403 | Quantity: 1 |
| <p>Bracket for two Z axes Bracket is designed for two separate Z-axes (Z1, Z2)</p> <ul style="list-style-type: none"> + Enables the rapid alternating use of the drilling gear and the main spindle | | |
| P1.1.4.3.1 | Article no. 6531 | Quantity: 1 |
| <p>Tool length check Suitable for measuring the lengths of shaft tools.</p> <ul style="list-style-type: none"> • After exchanging the tool via the equipping position, a length measurement is performed and compared with the tool database. | | |

WORKPIECE FIXING AND POSITIONING

| | | |
|--|-------------------------|--------------------|
| P1.1.6.1 | Article no. 1608 | Quantity: 1 |
| <p>Basic structure of console table manual 1-circuit Console clamping table for flexible and safe clamping of workpieces</p> <p>Basic construction</p> <ul style="list-style-type: none"> • 1-circuit vacuum system • Tubeless vacuum guide • Using double bracket technology, any number of vacuum clamps can be positioned freely and are infinitely variable on the console • Positioning of the consoles via dust-protected and high-quality guides. • Table construction with large clearance below the consoles for the disposal of chips and offcuts | | |

- The special positions are permanently assigned to the storage return lines:
- Working area and position of the stop pins according to technical data sheet
- Left front bumper
- Workpieces are placed on the front by hand

Extreme workpiece dimensions must be clamped with templates or mechanical workpiece clamps.

| | | |
|---|-------------------------|--------------------|
| P1.1.6.2.1.1 | Article no. 0808 | Quantity: 2 |
| Support profile for X stop | | |
| <ul style="list-style-type: none"> • Aluminum profile with grooves for holding adjustable side stop pins • Adjustment range according to technical data • Without stopper bolts <p>The position on the console must be determined in accordance with the technical data.</p> <p>Contained in the package</p> <ul style="list-style-type: none"> • Console table with LED | | |
| P1.1.6.2.1.2.1 | Article no. 0809 | Quantity: 4 |
| Stopper bolt for "covering layer" folding attachment | | |
| <p>Stopper bolts with attachment, prepared for the manual assembly of a folding attachment for workpieces with covering layer overhang</p> <ul style="list-style-type: none"> • incl. electrical end position querying • Without folding attachment <p>Contained in the package</p> <ul style="list-style-type: none"> • Console table with LED | | |
| P1.1.6.2.2.1 | Article no. 1234 | Quantity: 6 |
| Console Y=1360 mm for K table | | |
| <p>Clamping console for manual console table with single-circuit vacuum system</p> <p>Contained in the package</p> <ul style="list-style-type: none"> • Console table with LED | | |
| P1.1.6.2.2.2.1 | Article no. 0781 | Quantity: 6 |
| Front stop pins | | |
| <p>Pneumatically lowering longitudinal stop including electr. end position query</p> <p>Contained in the package</p> <ul style="list-style-type: none"> • Console table with LED | | |
| P1.1.6.2.2.3.1 | Article no. 0779 | Quantity: 6 |
| LED positioning system, Y direction | | |
| <p>Visual LED display system for manually positioning consoles</p> <ul style="list-style-type: none"> • Programmed positions for consoles are visually displayed in an LED grid of 5 mm • A positioning accuracy of +/- 2.5 mm can be achieved via intermediate spacings <p>Contained in the package</p> | | |

- Console table with LED

P1.1.6.2.2.4.1

Article no. 0198

Quantity: 4

Pneumatically lowerable insertion aid

- The workpiece insertion aid is mounted on the side of the consoles

Contained in the package

- Console table with LED

P1.1.6.2.9.1.1

Article no. 0780

Quantity: 6

Rear stop pins

Pneumatically lowering longitudinal stop including electr. end position query

Contained in the package

- Console table with LED

P1.1.6.2.11

Article no. 0783

Quantity: 1

Two-part vacuum system for shuttle operation

Two-part vacuum system (field A/field B)

- Activation via two separate foot switches

P1.1.6.2.12

Article no. 0789

Quantity: 1

Vacuum connection for templates

- 1 vacuum connection for templates for the right and left working field

Contained in the package

- Console table with LED

P1.1.6.2.13.1

Article no. 0778

Quantity: 1

LED positioning system, X direction (3XXX mm)

Visual LED display system for manually positioning consoles

- Programmed positions for consoles are visually displayed in an LED grid of 5 mm
- A positioning accuracy of +/- 2.5 mm can be achieved via intermediate spacings

Contained in the package

- Console table with LED

P1.1.6.2.14

Article no. 0458

Quantity: 6

Manual stop for surface overhang

- For covering layer overhang up to 20 mm
- Function achieved via folding hinges
- If the stop with covering layer overhang is used, the working area is reduced accordingly.

For AP table, can only be used with the rear stops.

P1.1.6.2.15

Article no. 0864

Quantity: 1

Supply unit for pneumatic clamping elements, right and left work area

Supply unit for pneumatic clamping elements activated with the foot switches.

- 2-circuit pneumatic system for using powerClamp clamping elements
- The workpiece is held at low pressure when the clamping element is actuated and is only clamped at full pressure for machining after program release
- One central block each on the right and left halves of the table, each with 2 x 6 connections that can be activated together or in 2 rows in step chain.

Only for machines with 2-way vacuum separation in an X direction (standard).

FIXING WORKPIECE

P1.1.6.3.1

Article no. 0192

Quantity: 12

Vacuum suction unit 115x160x100 mm K-table 1-circuit

Vacuum suction unit for 1-circuit console table system

- Replaceable rubber lining

Technical data:

| | | | |
|---------------------|--|-----|----|
| Installation height | | 100 | mm |
| Length | | 160 | mm |
| Width | | 115 | mm |

Contained in the package

- Console table with LED

P1.1.6.3.2

Article no. 0193

Quantity: 6

Vacuum suction unit 125x75x100 mm K-table 1-circuit

Vacuum suction unit for 1-circuit console table system

- Replaceable rubber lining

Technical data:

| | | | |
|---------------------|--|-----|----|
| Installation height | | 100 | mm |
| Length | | 75 | mm |
| Width | | 125 | mm |

Contained in the package

- Console table with LED

ENERGY AND SUPPLY

P1.1.7.1

Article no. 0733

Quantity: 1

Vacuum system 126/152 m³/hVacuum system with a total rated power of 126/152 m³/h.

- Low-wear and quiet rotary vane vacuum pump(s), oil-lubricated.
- If several pumps are used, the individual pumps can be switched on and off via a softkey for demand-oriented and sustainable use.

Vacuum system

| | | | |
|------------------------|--|---|-----|
| Number of vacuum pumps | | 2 | pcs |
|------------------------|--|---|-----|

Technical data for each vacuum pump:

| | | | |
|-------------------------------|--|----|-------------------|
| n at 50 Hz | | 63 | m ³ /h |
| n at 60 Hz | | 76 | m ³ /h |
| Motor rating | | 2 | kW |
| Sound pressure level in dB(a) | | 64 | |

| | | |
|---|-------------------------|--------------------|
| P1.1.7.2 | Article no. 6771 | Quantity: 1 |
| Energy-saving function: ecoPlus button for starting stand-by operation; this can be activated during machining and takes effect on ending the program: <ul style="list-style-type: none"> • Drive units are switched off so that they have no power • Switch-off of vacuum pumps • If the machine is not in production, standby operation is activated after a preset time • When activating ecoPlus, a potential-free output is set that is able to activate the fence (on-site) of an external suction device | | |

| | | |
|--|-------------------------|--------------------|
| P1.1.7.3 | Article no. 6591 | Quantity: 1 |
| SCPS for PC Uninterrupted power supply | | |

CONTROL MACHINE

| | | |
|--|-------------------------|--------------------|
| P1.1.8.1 | Article no. 0208 | Quantity: 1 |
| powerControl V2 with powerTouch | | |
| Hardware: <ul style="list-style-type: none"> • Operating panel with 24" full HD multitouch display in widescreen format • PLC control system according to the IEC 61131 international standard • Modern industrial PC with Windows 10 operating system • Backup manager and storage medium for comfortable data backup • USB connection • Digital drive technology • Decentralized, digital fieldbus system • Antivirus software | | |
| Software: <ul style="list-style-type: none"> • Standardized HOMAG powerTouch user interface • Ergonomic touch operation with gestures, e.g. zooming, scrolling, swiping • Easy navigation for uniform, intuitive machine operation • Intelligent production readiness display via traffic light function • Graphic slot assignment • Web control in all axes and parallel processes through multi-channel technology • Look-ahead function for optimum speeds at the transitions • Dynamic feed forward for the most accurate contour fidelity • Graphical tool database: Software package to support the HOMAG units listed in the scope of delivery. Consisting of woodWOP machining macros, NC subprograms and management of unit data • Import option of tool data from tool measuring stations • Integrated production list for the processing of program lists <p>The machine control system is not suitable for processing personal data in accordance with the EU GDPR.</p> | | |

| | | |
|---|-------------------------|--------------------|
| P1.1.8.2 | Article no. 6204 | Quantity: 1 |
| PC keyboard: English | | |
| P1.1.8.3 | Article no. 6499 | Quantity: 1 |
| Mobile operating terminal (10 m) | | |
| Freely positionable operator terminal with a distance of up to 10 m around the switch cabinet. | | |
| P1.1.8.4 | Article no. 6495 | Quantity: 1 |
| Control cabinet firmly mounted | | |
| <ul style="list-style-type: none"> • Control cabinet firmly screwed to the right side of the machine | | |
| P1.1.8.5 | Article no. 6491 | Quantity: 1 |
| tapio ready | | |
| A feature that gives you the option to use innovative digital products from tapio and tapio partners for future-proof operation | | |
| <ul style="list-style-type: none"> • Your HOMAG machine is already prepared for connection to tapio at the time of purchase • Contact your local HOMAG Sales office or visit www.tapio.one • The machine is delivered as "tapio ready" • The additional effect of the "tapio ready" functionality is that when you switch the machine on, a connection to the tapio exchange service is established so that the machine number can be used to check whether the machine has been activated and authorized for use via the tapio platform | | |
| Please note that some offers and services on tapio can only be used once you have registered for them, registered the machine or connect to it and activate services for it. For more information, please visit: store.tapio.one or contact your HOMAG sales team | | |
| P1.1.8.6 | Article no. 6067 | Quantity: 1 |
| Ethernet CNC network connection | | |
| Within the machine or plant, HOMAG uses data networks with 192.2.X.X or 192.168.1.X addresses. | | |
| If the customer network also uses this address, the customer must provide a router to avoid network conflicts. | | |
| P1.1.8.7 | Article no. 6340 | Quantity: 1 |
| Wired manual operation for run-in mode | | |
| <ul style="list-style-type: none"> + Integrated hook for flexible mounting + According to IP65 | | |
| The following drill sequences can be selected: | | |
| <ul style="list-style-type: none"> • Run-in mode • Start start/stop • Emergency stop switch with protective collar | | |
| P1.1.8.8 | Article no. 1233 | Quantity: 1 |
| Operation comfort pack | | |
| 3 additional buttons in the enclosure offer the following functions: | | |
| <ul style="list-style-type: none"> + Start program + Running until free + Pausing program + Raising extraction hood | | |
| <ul style="list-style-type: none"> • Additional laser scanner for monitoring the work area on the operator side moves forward together with the machine on the front of the safety enclosure. • If the laser scanner detects persons in the movement range of the machine, the machine stops before contact with the bumpers. • Function can be deactivated via softkey on the operating terminal for interruption-free machining with significant chip flight | | |

| | | |
|--|-------------------------|--------------------|
| P1.1.9.1.1 | Article no. 6672 | Quantity: 1 |
| <p>woodWOP for machine woodWOP for graphic, dialog-oriented creation of CNC programs</p> <ul style="list-style-type: none"> • Large program library with example programs for contours, cabinet furniture, worktops, doors • Free download at: www.homag.com • Includes CAD plug-in for creating CAD contours and for importing existing CAD drawings in DXF format | | |
| P1.1.9.1.2 | Article no. 6061 | Quantity: 1 |
| <p>woodWOP DXF-Import basic (single-user license) Interface for transferring drawing data from CAD systems in DXF format.</p> <ul style="list-style-type: none"> • By using certain layer names, edits can be automatically created from the DXF drawing. <p>The license for DXF Import Basic is included in the woodWOP license.</p> | | |
| P1.1.9.1.3 | Article no. 6004 | Quantity: 1 |
| <p>3D CNC simulator machine (single-user license) Graphical simulation of the CNC program in 3D and time calculation</p> <ul style="list-style-type: none"> • Display and check the positions of the clamping elements • Collisions between the tools and the workpiece or clamping equipment are identified. • Display of material removal and residual parts (e.g. cut-outs for glass panes) • Display of errors during program generation, e.g. missing tools, invalid travel paths • Multiple selection of programs for batch simulation • Time calculation with an accuracy of +/- 10% <p>When processing with the CAM plugin, larger deviations can result</p> <p>Exclusion of warranty: The simulation result may differ from the situation in reality. We therefore offer no warranty for collisions involving the real machine. It is not possible to guarantee that graphical data is entirely complete and correct.</p> | | |