

PROFI BMG511/40/15/F/K

CNC-controlled machining center in a gantry design, for milling and drilling workpieces made of wood or wood-like materials.
Designed for one main spindle, mounted on the right side of the gantry crossbeam.

1. BASIC MACHINE:

- Highly rigid, vibration-absorbing machine bed made of solid fiber-reinforced mineral composite: SORB TECH for the highest quality standards
- Machine bed prepared for the installation of a console table: "K"
- Linear guide systems with dust protection
- Rack and pinion drives for the X and Y axes
- Ball screws for the Z axis
- Siemens drive technology with digital control methods for high dynamics and contour accuracy
- Two synchronized servo drives for the X axis
- Single-sided aggregate carrier mounted on the right side of the gantry crossbeam
- Aggregate carrier is designed for two separate Z axes (Z1, Z2). Enables quick, alternating use of the drill head and main spindle
- Traverse speeds:
 - Vector speed = 85 m/min
 - X-axis = 35 m/min
 - Y-axis = 80 m/min
 - Z-axis = 25 m/min
- Central extraction port for on-site connection
- Automatic central lubrication for reliable and low-maintenance lubrication of all drives and linear guides (X, Y, Z axes)
- Pneumatic connection R 1/2 inch, 7 bar
- Connection values for extraction, pneumatics, compressed air, and electricity can be found in the separate installation plan

- Floor conditions must comply with the foundation plan

2. WORKPIECE PARAMETERS:

- Maximum workpiece lengths:
 - All units | Individual 4000 mm max. 2250 mm
 - Pendulum 4175 mm max. 2250 mm
 - Tool diameter 25 mm: Single 4175 mm
 - Pendulum 2250 mm min. 500 mm
- Workpiece width: Front stop: 1450 mm all units / 1675 mm with 25 mm tool diameter
- Rear stop up to 1900 mm
- Workpiece thickness:
 - Max. 300 mm including clamping device
 - Up to max. 60 mm with standard clamp without restriction for units and extraction
- The specified workpiece dimensions are not equivalent to the maximum possible machining sizes per unit; see separate tables for details.
- The minimum workpiece size depends on:
 - Clamping devices, workpiece surface, and contour

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- The machine operator is responsible for using suitable materials (sheets, adhesives, edgebanding, cleaning agents, paints, etc.).

3. ELECTRICAL EQUIPMENT:

- Freestanding control cabinet
- Operator terminal integrated into the control cabinet
- Installed according to European standard EN 60204
- Residual current protection (RCD) only permitted in conjunction with an all-current sensitive/selective RCD.

If the capacity of this device is insufficient, a residual current monitoring device must be installed on-site.

- Prescribed ambient temperature: +10 to +40 °C
- Humidity: 30% - 90% (if necessary, a control cabinet heater must be used in higher humidity conditions, VK No. 6173)

4. SAFETY AND PROTECTIVE DEVICES:

- Partial enclosure for the machining units, providing optimal operator safety and process control
 - Safety monitoring with pressure-sensitive switching buffers according to EN 1760-3 for effective protection of operating personnel
 - Caution: The machine must not be operated without all-around safety enclosure
 - EC conformity (CE) according to the currently valid Machinery Directive for Individual machine operation
 - For linked machine operation (cells/factory plants), an additional EC conformity assessment (on-site) is required.
- Execution by the user (customer) themselves or optionally
- Wood dust tested, TRK value max. 2 mg/m³ when the extraction capacity to be provided on-site according to the extraction plan is met
 - A prerequisite for our warranty/product liability is the unrestricted compliance with the original operating instructions supplied with the machine, including the safety regulations

5. PROGRAMMING ACCORDING TO CNC DRAWING:

- Programming and setup for 2 workpieces
- Prerequisites are CNC-dimensional drawings, tools, and sample material (edges and panels) provided by the customer
- One workpiece must be able to be machined in one setup

6. HOMAG QUALITY PACKAGE:

- Energy chains (cable carriers) in the X and Y directions in a enclosed design to prevent cable damage by offcuts, chips, etc.
- Linear guides in the X and Y directions are covered with a metal band to prevent dirt ingress
- TÜV certificate according to DIN EN ISO 9001:2000
- Energy-efficient drives according to EU No. 640/2009
- Energy-saving function:
- ECO Plus button to start standby mode, which can be activated during the last machining operation. After the program ends, it does the following:
- Drives are switched off
- Vacuum pumps are switched off
- If the machine is not producing, the control voltage is switched off after a preset time
- If no workpiece is clamped, the vacuum pump is switched off

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after a preset time
- Damper control to reduce the necessary
Extraction energy through automatic switching between
drill head and main spindle

P.02001 Number: 0674 1 piece

SPEED PACK

- Increases the maximum traverse speed of the X-axis to 80 m/min.
- Vector speed = 110 m/min
- Increased machine dynamics, resulting in shorter machining times
- When the warning zone is entered, the traverse speed is automatically limited to 35 m/min

P.03001 Number: 0699 1 piece

PAINTING GREY RDS 240 80 05

Price included in basic machine

P.04001 Number: 7471 1 piece

TOOL TRANSFER POSITION F.B200/300+BMG500

Auxiliary device for automatic loading
of the tool changer

- Tool transfer position adaptable to the clamping table
- Sensors for monitoring the loading position in the tool changer
- Only suitable for tools in the HSKF63 tool holder
- Maximum tool diameter 300 mm

P.04004 Number: 7449 1 x left

18-POINT TABLET CHANGER D=130 BOTTOM

- For tools and units with HSKF63
- TABLET changer for 18 tool/unit positions
- Maximum tool weight: 6 kg including HSK mount
Maximum unit weight: 10 kg
- The following tool and unit configurations are possible:
 - 18 x max. diameter 130 mm or
 - 9 x max. diameter 180 mm and
 - 9 x max. diameter 70 mm
- Maximum unit length: 320 mm
- Maximum load weight: 90 kg
- With Drive5+: Saw blade diameter 350 mm A-dimension
40 mm can be exchanged from the changer
With Drive5C/+: Saw blade diameter 350 mm A-dimension
50 mm can be exchanged from the tool changer
- The weight distribution of tools and
units in the tool changer must be symmetrical

P.04007 Number: 7464 1 piece

PICKUP POSITION FOR SAW BLADE 350 MM F. DRIVE5 (C) +

P.04011 Number: 7433 1 piece

MACHINING SPINDLE 15 KW DRIVE5C+

Cardanied 5-axis head for milling, drilling and
sawing at any angle to the workpiece

- With interface for HSK F63 - DIN 69893
- For precise mounting of tools and
units for high machining forces
- Three-phase asynchronous motor with encoder control
for high torque even at low speeds
e.g. when using grinding units
- ACTIVE liquid cooling with temperature monitoring
to prevent thermal damage

Damage and increased service life

- Spindle with hybrid bearings for maximum precision and long service life at high speeds
- 15 kW at S6 operation (Cyclic power output in practical operation)
- 12 kW at S1 operation (Continuous operation)
- Frequency converter for electronic speed control from 0 - 24,000 rpm
- Full rated power from 12,000 rpm
- Maximum tool weight: 6 kg including tool holder
- Maximum tool length: 230 mm from the bottom edge of the motor spindle
- Maximum tool diameter:
 - 180 mm for milling tools
 - 350 mm for saw blades(Pickup position optional)
(Tool holder with A-dimension = 50 mm, VKNR 7942)
- The maximum cutting depth depends on the spindle position (see technical data sheet)
- Includes Z-axis module
- Z-axis travel: 600 mm
- Cardan arrangement of the adjustment axes
- The A and C axes of the 5-axis head are each equipped with two gear trains.
These are preloaded against each other without backlash, ensuring maximum rigidity and machining accuracy on the workpiece.
- Rotation angle in the C-axis: +/- 361 degrees
- If A is not equal to 0 degrees, the rotation angle in the C-axis is reduced.
- Rotation angle in the A-axis: +/- 100 degrees
- Vibration sensor for monitoring the spindle during machining
- Detects vibrations caused by tool imbalance or improper use
- If a threshold is exceeded, the machine stops with an error message.
- Automatic feed reduction when the spindle speed drops.
- Tool holder and tools not included.
- Includes extraction hood.
- Working area with the spindle in a horizontal position:
see technical data. Datasheet
- 5-Axis Spindle Programming:
 - woodWOP enables the programming of the 5-axis spindle as a positioning axis for sawing, drilling, and milling operations in any plane.
 - Maximum standard tool configurations are:
 - Drilling and milling tools: 20 mm diameter, overall length up to 230 mm
 - Roughing milling tools: 80 mm diameter, 80 mm usable length, overall length 165 mm
 - Saw blade: 350 mm diameter with 50 mm A-dimension mount
 - Standard tools can be swiveled without collision within the extraction hood (A-axis)
 - Tools with a larger interference contour result in a restricted working area
 - Machining accuracy with the spindle swiveled (A-axis other than 0 degrees) can be up to +/- 0.2 mm, depending on the tool length used
- Increased requirements regarding process forces, surface finish, or contour accuracy require prior testing and manufacturing of boundary patterns. Material, clamping devices (if necessary), tools, and programs must be provided for this purpose.
- For milling operations in the 3D area (path travel) or with larger workpiece thicknesses, a suitable CAD/CAM system and the Homag CAD/CAM interface are required.

EXTRACTION CAPACITY 5-AXIS SPINDLE:

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- Extraction system designed for 5-axis machining
- Due to the system design, the cleaning effect of the extraction system is reduced during various machining processes (e.g., sawing or nesting)
- The extraction hood is height-adjustable in 4 stages
- The hood position is programmed depending on the workpiece thickness, tools, and A-axis position
- The extraction effect is reduced accordingly
- For optimal containment of contaminants, a complete machine enclosure is necessary

ADGMENT INTERFACE DRIVE5C+:

- For use with machining units in A=0 position, unit selection according to the technical data sheet
- 3-point torque support for reliable power transmission under high cutting forces
- Pneumatic supply for the unit interface, e.g., for HP units or probed units

P.04014 Number: 7491 1 piece

DRILL HEAD 30 SPINDLES: V20 / H10 / S360° "MPU"

- MultiProcessingUnit with C-axis +/- 185° for drilling and sawing operations at any angle
- 1 motor 2.3 kW, frequency-controlled
- Maximum speed 7500 rpm, selectable via program for fast machining even with small diameters

20 VERTICAL SPINDLES HIGH-SPEED:

- Each drill spindle with quick-change system to reduce setup time
- Spindles can be called up individually
- Spindle extension stroke 60 mm
- Drill spindles locked in extension stroke for reliable drilling depth
- Spindles arranged in a U-shape
- 3 rows of drills with 11, 3 and 6 spindles
- Spindle spacing: 32 mm
- Drill diameter: max. 35 mm
- Total drill length: 70 mm
- Shank diameter: 10 mm
- With clamping surface and adjusting screw
- Rotation direction: Alternating clockwise and counterclockwise

10 HORIZONTAL SPINDLES:

- Stroke: 60 mm in the Z-direction
- Spindles arranged in pairs
- 4 pairs of drill spindles, 32 mm pitch
- 1 pair of drill spindles, 320 mm spacing
- Maximum drill diameter: 10 mm
- Drill chuck: d = 10 mm
- Total drill length: 70 mm
- With clamping surface and adjusting screw
- Rotation direction: 5x counterclockwise, 5x clockwise

SLOT AND CUTTING SAW:

- Saw blade diameter: : 200 mm
- Saw blade width: max. 5 mm
- Cutting depth (cutting): max. 68 mm
- Cutting depth (removal): max. 25 mm
- Mounting flange: d = 30 mm
- Pitch circle diameter: 52 mm RL
- Countersunk screws: 4 pcs. M5
- Rotation direction: clockwise
- Includes Z-axis module

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- Includes dust extraction hood
- Tools not included
- 1 free slot for add-on milling spindle

P.04017 Number: 7494 1 piece

ATTACHMENT MILLING SPINDLE 6 KW FOR MPU DRILL HEAD

- Milling spindle for light milling operations
- Stroke length 70 mm
- Three-phase asynchronous motor with
- 6 KW in S6 operation
- 4.5 KW in S1 operation
- Speed 6,000 - 18,000 rpm
- Interface for HSK F63 tool holder with manual clamping system
- Maximum tool diameter 25 mm
- Maximum tool length from HSK 150 mm
- Maximum tool weight including holder 2 kg
- Rotation direction freely programmable
- Includes tool holder without collet
- Tools not included

P.05001 Number: 7523 1 piece

4-spindle drill/milling unit with tool changer

- For horizontal drilling and light milling operations, e.g., grooves, slots, cutouts, and edge milling
- With permanent grease lubrication for cyclic use in the main spindle
- Four-sided spindle exit
- ER25 DIN6499 collet chuck up to max.16 mm shank diameter
- Max. tool projection 55 mm
- Max. speed 14,400 rpm
- Standard collet diameter 10 mm
- Unlimited swiveling via C-axis
- Tool-free

P.05004 Number: 7426 1 piece

TOOL CHANGER

- Touch probe system for determining the actual dimension relevant for machining in the X, Y, and Z directions
- For automatic tool change in the main spindle
- The position data is calculated using the formula stored in the NC program
- Software VK No. is required for rotating the coordinates 6371 required
- Touch probe designed as a pin for workpieces without surface layer protrusion
- For 4-/5-axis main spindles

P.05007 Number: 6371 1 time

SOFTWARE POSITION MEASUREMENT CNC COORDINATE ROTATION

- Software package for the touch probe system for position detection of workpieces with a 3-point measurement
- Rotation of the coordinate system in the CNC program in the X/Y plane based on the determined measuring points
- Measuring points only possible on straight edges
- Measuring movements are parallel to the main axes

P.06001 Number: 0776 1 piece

DESCRIPTION MANUAL CONSOLE TABLE

- Clamping table with consoles and hoseless vacuum guide for flexible positioning of any number of vacuum clamps

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- Working height 960 mm (bottom edge of workpiece)
- Linear guides for precise and torsion-resistant adjustment of the clamping consoles
- Table construction with a large, interference-free space below the consoles for the disposal of chips and offcuts
- Dual loading and pendulum machining to increase productivity. (With B../30+40, accessibility is limited due to the shorter machine length during pendulum machining)
- Dynamic workspace allocation:
Enables optimal utilization of the available machining area of the machine in pendulum operation. The machine automatically checks the maximum possible part dimensions based on the program allocation. The consoles are permanently assigned to the machining areas. The required safety zone is 1260 mm. Dynamic positioning allows for the creation of variable, asymmetrical pendulum fields.

For BMG500.../60/74:

Dynamic positioning is only possible after manual removal of the center stop.

- Working area and stop pin positions according to the technical data sheet
- Extreme workpiece dimensions must be clamped using templates or mechanical workpiece clamps
- Machine zero point is at the front left
- Workpieces are loaded manually from the front.

P.06004 Number: 7209 2 pieces

BEARING PROFILE FOR X-STOP

- Aluminum profile with grooves for mounting adjustable side stop bolts
- Adjustment range according to technical data
- Without stop bolts
- The position of the console must be determined according to technical data

P.06014 Number: 7349 4 pieces

CLAMPING LEVER FOR ADJUSTABLE SIDE STOP

- Clamping lever for quick and tool-free adjustment of the side stop bolt in the Y direction
- Suitable for workpieces with machining allowance

P.06017 Number: 0751 10 pieces

CONSOLE Y=1500/1600 MM FOR K-TABLE

- Clamping console for manual console table

P.06024 Number: 7301 4 pieces

SIDE AND LONGITUDINAL STOP BOLTS

- End position monitored, electromechanically controlled, stroke 140 mm
- Stop bolts selectable in groups
- The position on the clamping table must be defined according to the technical data

P.06007 Number: 0739 14 pieces

AUTOMATIC STOP BOLT FOR TOP PANEL PROPOSE

- Automatically adjustable stop bolt with lifting and rotating mechanism
- Top layer protrusion ; max. 20 mm
- Top layer thickness ; max. 1 mm
- Workpiece thickness ; min. 20 mm
- Stroke ; 110 mm
- End position monitored

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P.06031 Number: 7207 10 pieces

LIFTING RAIL FOR CONSOLE TABLE B200/300/BMG500

- Sliding lifting rail, in HPL finish, mounted laterally on the console
- Lifting device for 100 mm clearance under the workpiece support
- Total stroke approx. 105 mm
- Lifting capacity per lifting rail 35 kg

P.06034 Number: 0764 10 pieces

CONNECTION FOR POWERCLAMP CLAMPS K-TABLE

- 2-circuit pneumatic system for the use of powerClamp clamping elements
- Pneumatic connections for one powerClamp clamping element per console
- Production in pendulum mode is operated via the existing foot switches
- For arc production, operation is performed directly at the clamping element (powerClamp)

P.06211 Number: 7389 1 Piece

LOW/HIGH PRESSURE CONTROL FOR PNEUM. CLAMP

- For use with mechanical/pneumatic clamping elements with unsecured manual intervention by the machine operator
- The workpiece is held with low pressure when the clamping element is actuated and is only clamped with full pressure for machining when the program is released

P.06214 Number: 0762 8 pieces

VACUUM CONNECTION FOR TEMPLATE

- Via plug-in coupling

P.06027 Number: 7877 10 pieces

LED POSITION INDICATION SYSTEM CONSOLE 1300-1600 MM

- Optical LED display system for manual positioning of vacuum clamps and consoles
- The consoles and vacuum clamp positions programmed in woodWOP are displayed optically on the support table in a 5 mm LED grid in the X and Y directions
- A positioning accuracy of +/- 2.5 mm can be achieved via intermediate distances mm can be achieved

P.06221 Number: 7310 2 pieces

POST+RACK CLAMP SINGLE, 40 MM FOR K/AP

- Mechanical/pneumatic clamping element with adjustable clamping jaws for horizontal clamping of stair posts or similar rectangular wooden profiles
- For machining from above and the side
- Workpiece support height 40 mm from table top
- Clamping width variable up to max. 300 mm

P.06224 Item No.: 0738 16 pieces

VACUUM CLAMP 160X115 MM FOR K-TABLE

- Vacuum clamp with double sealing lip for stepless positioning on the console
- Rubber lining replaceable when worn
- Installation height 100 mm

P.06227 Item No.: 0737 8 pieces

VACUUM CLAMP 125X75 MM FOR K-TABLE

- Vacuum clamp with double sealing lip for stepless positioning on the console
- Rubber lining replaceable when worn

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- Installation height 100 mm

P.06998 4 pieces

VACUUM CONNECTION FOR TEMPLATE

- Via plug-in coupling

P.06999 14 pieces

COVER LAYER STOP BOLT WEEKE INSTEAD OF HOMAG

Cover layer stops, WEEKE design.

- Automatically adjustable stop bolt with lifting and rotating mechanism
- Surface layer overhang ; max. 20 mm
- Surface layer thickness ; max. 1 mm
- Workpiece thickness ; min. 20 mm
- Stroke ; 110 mm
- End position monitored

P.07001 Number: 0742 1 piece

CONTROL CABINET POSITIONING LEFT

- The freestanding control cabinet is positioned to the left of the worktable.
FREQUENCY 50 Hz
INSTALLATION ACCORDING TO SEV AND SUVA

P.07014 Item No.: 7085 1 piece

VACUUM PUMP 300/360 m³/h

- Low-wear and energy-efficient vacuum pump with claw technology
Busch type
- Rated capacity 300 m³/h to increase the overall vacuum capacity
- 50 Hz = 300 m³/h
- 60 Hz = 360 m³/h

P.07017 Item No.: 7072 1 piece

COOLANT TANK FOR MACHINING SPINDLE

- For supplying the coolant circuit of the main spindle when a vacuum pump with a water ring system cannot be used

P.07999 20 pieces

VACUUM HOSE EXTENSION

For extending the vacuum hose to 25 meters.

P.08001 Number: 0778 1 time

POWERCONTROL PC85

Modern control system based on

Windows PC

Hardware:

- PLC controller according to international standard IEC 61131
- Modern industrial PC with Windows XP operating system and Intel CPU
- 17-inch TFT flat screen monitor
- PC keyboard and mouse
- 1 permanently installed hard drive
- 1 hard drive for data backup
- 1:1 backup (cloning)
- USB port
- Manual operation for initial setup
- Digital drive technology
- Decentralized, digital fieldbus system
- Virus protection
- Ethernet network connection with additional card and network software. Homag uses data networks within the

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machine or system with the identifiers 192.2.2.x or 192.168.1.x. If the customer's network also uses this identifier, the customer must provide a router to avoid network conflicts.

- UPS (Uninterruptible Power Supply), protects the computer from damage in the event of a power outage, overload, or short circuit.
In the event of a power outage, the computer is shut down in a controlled manner after one minute, thus preventing data loss.

Software:

- PC85 CNC core with:
- Path control in all axes and parallel sequences via multi-channel technology
- Look-ahead function for optimal speeds at transitions
- Dynamic feedforward control for the most precise contour accuracy
- PC85 software package with graphical user interface:
- woodWOP for graphical, dialog-oriented creation of CNC programs. Large program library with sample programs for contours, cabinet furniture, worktops, doors, and much more, including post-processor
- Graphical tool database: Software package to support the Homag units listed in the scope of delivery. Consisting of woodWOP machining macros, NC subprograms and aggregate data management
- Production list management
- CNC operation
- Graphical representation of clamping positions

P.08004 Number: 6308 1 time

HOMAG GROUP POWERTOUCHE CONTROL SYSTEM

- Control center with full HD multi-touch display in widescreen format
- Uniform HOMAG Group user interface powerTouch
- Ergonomic touch operation with gestures, such as zooming, scrolling, and swiping
- Easy navigation for consistent, intuitive machine operation
- Intelligent production readiness indicator via traffic light function
- MMR basic machine data acquisition for usage-dependent maintenance and for displaying important production KPIs (e.g., quantity, production time)
- Expandable to MMR professional for production optimization through recording and analysis of downtime and causes of malfunctions
- Operating system Windows 7 professional
- System requirements AV-PC: Operating system Windows 7

P.08007 Number: 6349 1 time

IPC POWERPACK

- Upgrade of the machine computer from a 1-computer system to a 2-computer system
- During processing With very large programs, e.g., with extensive nesting programming or with window machines featuring dynamic space optimization, waiting times of up to several minutes can occur. By using the dual-computer system, waiting times are reduced by up to 50%.
Examples of applications:
- Very large woodWOP programs (window programs, nesting, etc.)
- Additional applications such as collision control, window interface
- External software on the machine computer

P.08011 Number: 7004 2 pieces

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CONTROL COLUMN FOR PROGRAM START

- Arrangement according to floor plan and extraction plan

P.09001 Number: 6388 1 piece

CAMERA SYSTEM WITH TABLET PC

- Color camera with integrated lighting for visual monitoring of machining processes
- Camera mounted directly on or in the housing of the machining spindle
- Camera image displayed on a tablet PC, Camera signal transmitted via Wireless LAN through an access point in the control cabinet

Note:

- HOMAG assumes no liability for damage caused by dirt or destruction from residual parts
- Per machining unit

P.09004 Number: 6661 1 piece

WOODWOP CAD/CAM INTERFACE STANDARD

Software module (universal macro) for importing machining paths as NC code from one of the following CAD/CAM systems:

- AlphaCAM
- Compass Staircase Software
- TopSolid
- Wagemeyer
- EasyWOOD (DDX)
- CAM MAX (imos)
- The data must be output by the CAD/CAM system in Homag format.
- For this, a corresponding post-processor from the software company must be installed in the CAD/CAM system.
- The software company is responsible for the functionality of the CAD/CAM software, the post-processor, and the quality of the data.
- The CAD/CAM software is commissioned at the customer's site after acceptance of the machine.
- If the presence of a Homag service technician is required for commissioning the CAD/CAM software, this will be billed according to the time and materials required, in accordance with Homag's billing guidelines.
- Homag must be notified of the software supplier no later than 8 weeks before completion of the machine.
- The machine is run in at Homag using a 5-axis test program defined by Homag: Drawing No. 3-061-16-5110
Comment for MasterCAM software

P.09007 Number: 0779 1 time

PLAIN TEXT ERROR MESSAGE

- Display and error description on the machine control

P.09011 Number: 0780 1 time

MMR BASIC

- Integrated counters and predefined maintenance intervals always alert the machine operator to required maintenance work in a timely manner
- This needs-based maintenance increases machine availability and significantly reduces downtime due to malfunctions
- In addition to maintenance data, the number of workpieces produced and total operating times are recorded
- Thus, information on productivity is constantly available

P.09014 Number: 6620 1 time

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WOODWOP PACKAGE: BOF/BMG (SINGLE-USER LICENSE)

This software package allows CNC programs to be created for the CNC control and graphically simulated.

It includes the following functions:

woodWOP:

- User-friendly, fully menu-driven interface
- 3D view of workpieces, machining operations, consoles, and clamping devices
- Graphical representation of any work planes
- Contour generation via integrated contour programming
- Dimension input as absolute values or as variables
- Interactive placement of holes and contour lines with the mouse
- Includes automatic vacuum cleaner suggestion with 3D view
- Includes woodType for engraving text
- Includes Mosaic file explorer for quick and easy management of your own woodWOP programs
- Includes residual surface reduction for automatic detection of residual surfaces between a workpiece and the blank and generation of milling paths
- Post-processor and tool database editor:
 - Creation of programs in DIN 66025
 - Management of tools and tool data
 - Easy creation of your own profile tools incl. 3D Tool Generator

DXF Interface:

- Interface for importing drawing data from CAD systems in DXF format for further processing
 - Certain drawing guidelines, such as layer assignment, must be followed
- System Requirements:

- Operating System: Windows XP (SP2), Vista, or Windows 7
- Processor: 2 GHz or higher; Intel, AMD, or similar; Recommended dual-core processor
- Main Memory: 1 GB RAM, recommended 2 GB RAM
- Graphics Card: OpenGL 1.5 compatible, min. 128 MB; recommended OpenGL 2.x, 512 MB, ATI Radeon, NVIDIA, GeForce, or similar
- License valid for one workstation (additional licenses optional)
- Virtual servers and terminal servers are not supported
- The product must be activated after installation.

Activation at www.eparts.de

P.11001 Number: 0789 1 piece

SAFETY BARRIER RIGHT WITH DOOR

- Supports with safety barrier anchored to the floor
- Incl. safety door

P.11004 Number: 0673 1 piece

SAFESCAN FOR SPEED PACK

- safeScan for dynamic work area monitoring
- Mounted on the machine's safety enclosure

P.12001 Service: 8321 1 time

DOCUMENTATION AND CONTROL TEXTS: GERMAN

Translated:

1. Operating instructions consisting of operating and maintenance instructions on DIN A4 paper and CD-ROM
2. On-screen operating texts for machine operators, for PC22, PC52, PC83 and PC85
3. Spare parts descriptions on CD-ROM

P.12004 Service: 0782 1 1 time

DOCUMENTATION ON CD

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- Consisting of:
- Operating instructions
- Spare parts diagrams
- Electrical documentation
- Data format PDF

P.12007 Service: 0783 1 time

DOCUMENTATION ON PAPER

- Consisting of:
- Operating instructions
- Folder, DIN A4 paper

P.13001 Service: 0781 1 time

TELESERVICENET-SOFT

- Remote diagnostics via the internet
- Billing according to separate remote service agreement
- Internet connection must be provided by the customer
- Access to 1 machine PC possible