

Panel Saw Homag
SAWTEQ B-300 PROFILINE Edition25
year 2018 – 6135 working hours
machinen number: 0-240-10-4980



SAWTEQ B-300 PROFILINE EDITION25

(PROFI HPP300/43/43)

PANEL SIZING SAW

Single saw for tear-free and precise sizing of panel-shaped materials.

1. Highlights

- + ecoPlus technologies for up to 20% energy savings:
 - > Standby button
 - > Motors in energy efficiency class IE3
 - > Reduction of exhaust air volume by more than 15%
- + Viewing window in the pressure beam allows a view into the rear machine area
- + Patented: Central angle pressure device
- + Active extraction via the angle ruler for chips generated during rip cuts
- + Access to the saw body for cleaning purposes through a hinged front panel

2. Rear machine table

In the rear machine table, collets guide the material over high-quality roller rails, protecting the surface.

3. Program slider

The program slider automatically positions the panels along the cutting line using robust collets. + Guided by a double T-beam - this ensures

constantly precise positioning

- + Drive via rack and pinion eliminates

lubrication

- + Drive via AC servo motor
- + Non-contact electromagnetic measuring system
 - > No wear
 - > Maintenance-free
 - > Measurement is independent of the drive system
- + Short, robust collets
 - > No negative leverage
 - > Material is pressed into the base of the collet,

panels do not slip

4. Machine body

The machine body is equipped with large, abrasion-resistant table supports.

- + No milling of the machine table, thus the full stability of this steel table is maintained
- + Simple, cost-effective replacement of the table supports
- + Optimized extraction in the collet grooves

5. Pressure beam

The pressure beam securely fixes the panels to the machine table during cutting. + Torsion-resistant pressure beam

- + Minimal wear
- + The contact pressure, adjustable via a pressure gauge, remains permanently stable
- + Linear guidance and parallel compensation via the rack and pinion guarantee precise guidance
- + Even contact pressure across the entire surface

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+ The collet recesses allow for minimal initial cuts and scratch cuts, thus ensuring optimal utilization of the panel

+ Optimal extraction performance thanks to minimal pressure beam openings. The required BG emission values are thus significantly exceeded

6. Saw carriage and angle pressure device

The robustly designed steel saw carriage is equipped with a main saw unit.

+ Solid steel saw carriage body (approx. 300 kg):

> Permanently torsion-resistant

> Cutting direction against the angle ruler prevents the panels from slipping and guarantees optimal suction

+ Saw carriage drive via rack and pinion

> No lubrication required

> No lifting of the main saw motor thanks to the patented swing-arm system

> No vibrations, resulting in first-class cutting quality

+ 10-year warranty on the saw carriage guides

+ Optimized saw blade changes thanks to the Power-Loc quick-clamping system

+ Automatic, stepless cutting height adjustment reduces cycle time

+ Patented central angle pressure device

> Reduces cycle time by up to 25% compared to conventional systems

> Enables the pressing of strips across the entire cutting length

> Electrically adjustable pressure force, allowing even thin and pressure-sensitive panels to be pressed

Quality standards:

+ BGI 739-1

+ Positioning accuracy of the program slider

+/- 0.1 mm/m

(The information does not refer to the cut parts)

On-site requirements, to be provided by the customer:

+ Operating temperature min. +5 degrees

+ Operating temperature max. +35 degrees

+ Hall floor condition:

> Concrete quality C25/30

> Concrete thickness min. 200 mm without covering layers

(e.g., parquet, bitumen, etc.)

+ All machine feet must be underlaid with non-shrinkage grout after installation

+ Pneumatic gate valve on the pressure beam recommended by the customer

> Electrical control of the valve provided in the control cabinet

+ Due to operational leakage currents, the machines are not suitable for

connection to an RCD. Instead, it is recommended to install the

supply cable in a ground- and short-circuit-proof manner

(e.g., according to DIN VDE 0100-520/521.11)

Model-specific machine data

HPP300/43 profiLine Cutting length 4300 mm

Working height 920 mm

P.00001 Number: 1651 1 piece

SAW BLADE OVERLAY 95 MM

P.00004 Number: 1767 1 piece

RIGHT-HAND VERSION

Sawing direction from left to right in

the direction of the angle ruler.

MACHINE EXTENSIONS

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P.02004 Number: 5935 1 piece
ADAPTATIONS FOR LOW FLOOR THICKNESSES
Composite anchor system that allows for a lower floor thickness and smaller edge distances.

Minimum floor requirements:

- + Industrial floor
- + Steel-reinforced
- + Resistant to tensile and compressive loads
- + Floor thickness min. 160 mm
- + Drilling depth min. 125 mm
- + Floor flatness tolerance +/- 10 mm
- + Floor quality C25/30 XC1

P.02007 Number: 5960 1 piece

PAINT

- Machine and safety fence posts painted in RAL 9003 Signal White
- Design stripes, safety fence panels, and protective

SAWING AREA

P.04004 Number: 1712 1 piece
MACHINE TABLE COMPLETELY COATED
Optimized panel handling.

Your benefits:

- + Minimal displacement forces thanks to a sprayed machine table
- + Surface-friendly material handling
- + Significantly improved extraction
- + Minimal cleaning effort

The option includes:

- + Machine table sprayed
- + DustEx combination nozzles

P.04007 Number: 1089 1 piece
LOWER PROGRAM SLIDE GUIDE

P.04013 Number: 1200 1 piece
PROGRAM SLIDE SPEED
Forward 25 m/min
Backward 90 m/min

P.04016 Number: 1370 6 pieces
STANDARD COLLETS
Position:
75 / 275 / 475 / 1075 / 1825 / 3425 mm

P.04034 Number: 1720 1 piece
PRESSURE BEAM HEIGHT CONTROL *
By opening the pressure beam according to the package height, shorter cutting cycle times can be achieved.

P.04037 Number: 1724 1 piece
SAW CARRIAGE ROLLERS BASIC

P.04043 Number: 1680 1 piece
SAW CARRIAGE SPEED 130 M/MIN

P.04046 Number: 1621 1 piece
MAIN SAW MOTOR 18.0 KW

P.04049 Number: 1696 1 piece

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PNEUMATIC MAIN SAW LIFT

P.04052 Number: 1671 1 piece
SCORING UNIT

P.04055 Number: 1635 1 piece
SCORING SAW MOTOR 1.5 KW

P.04058 Number: 1695 1 piece
PNEUMATIC Scoring Saw Stroke

P.04061 Number: 1610 1 piece
Electric Scoring Saw Adjustment
via button on the control panel

P.04064 Number: 2107 1 piece
Intelligible Guide Basic*
World market first!
Optical LED assistance system to support the machine operator
when machining workpieces.

Your benefits:

- + Increased efficiency through faster operating processes
- + Error prevention through continuous plausibility checks
- + Improved user comfort

The option includes:

- + Interactive LED bar with color position and status display

AIR CUSHION TABLE POSITION 1

P.05007 Number: 2370 1 piece
1 AIR CUSHION TABLE 2160 x 650 mm

AIR CUSHION TABLE POSITION 2

P.05016 Number: 2370 1 piece
1 AIR CUSHION TABLE 2160 x 650 mm

AIR CUSHION TABLE POSITION 3

P.05022 Number: 2370 1 piece
1 AIR CUSHION TABLE 2160 x 650 mm

AIR CUSHION TABLE POSITION 4

P.05028 Number: 2370 1 piece
1 air cushion table 2160 x 650 mm

MARKING

P.07004 Number: 6083 1 piece
LABEL PRINTER TYPE PICA II 108*
Thermal / thermal transfer label printing station
Technical specifications
Label width: max. 110 mm min. 15 mm
Print width: 108 mm

Resolution: 300 dpi
Print speed: 100 mm/s
Roll diameter (core): 3"/76 mm
Roll diameter (outer): max. 180 mm

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Automatic dispensing device: yes
Automatic rewind device: yes
Ethernet interface: yes
The printer is installed in a separate housing
near the angle ruler.

P.07007 Number: 6070 1 copy
LABELING WITH PART GRAPHICS
Graphic representation of edge information,
machining drawings from cutting optimization software, and part drawings
from higher-level systems.

P.07013 Number: 6075 1 copy
LABEL PROGRAM
Label printing for finished parts directly at the saw.
- Printouts can be per piece, per package, or
per definable stack.

ENERGY AND CONSUMPTIONS

P.08004 Number: 6483 1 piece
OPERATING VOLTAGE 400 V

P.08007 Number: 6498 1 piece
FREQUENCY 50 HZ

P.08013 Number: 2310 1 piece
CENTRAL BLOWER FOR THE AIR CUSHION TABLES

CONTROL THE MACHINE

P.09004 Number: 6300 1 piece
CONTROL CENTER
+ CADmatic control system with assistive graphics
+ With 21.5-inch full HD multi-touch display in widescreen format

P.09007 Number: 6181 1 piece
POWERCONTROL V2.1
Modern control system based on a Windows PC
Hardware:
+ PLC control According to the international standard IEC 61131
+ Modern PC with Windows 7 operating system
+ Backup manager and storage medium for convenient data backup
+ USB port
+ Digital drive technology
+ Decentralized, digital fieldbus system
+ Virus protection software
+ Network-capable
Software:
+ Uniform HOMAG powerTouch user interface
+ Ergonomic touch operation with gestures, such as
zooming, scrolling, and swiping
+ Simple navigation for consistent, intuitive machine operation
+ Integrated tool management with wear data recording
+ Error diagnostics supported by graphics and video sequences
The machine control system is not suitable for processing personal data as
defined by the EU GDPR.

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P.09013 Number: 6187 1 unit
CADMATIC 5.0

P.09016 Number: 6491 1 unit
TAPIO READY

- Your HOMAG machine is already prepared to communicate with tapio upon purchase
 - A functionality that offers you the opportunity to use innovative digital products from tapio and be future-proof
 - For more information, contact your HOMAG Sales representative or visit www.tapio.one
 - The machine is delivered as "tapio ready"
 - Please note that the offers and services of the tapio platform can only be used once you have registered and activated the corresponding machine functionality.
 - Otherwise, the "tapio ready" functionality only means that when the machine is switched on, a connection is automatically established to the tapio platform's connection service.
- This function uses the machine number to check whether the machine in question is activated for use via the tapio platform.

MACHINEBOARD

- The MachineBoard provides the current status of all machines to mobile devices such as smartphones.
- Push notifications are sent to the machine operator when necessary actions such as malfunctions or setup processes occur.
- The MachineBoard supports the machine operator in their daily work with multiple machines and creates more flexibility and predictability for their tasks.
- Free use is unlimited.

Due to the fast-paced nature of the IT landscape, we guarantee compatibility with the tapio platform for five years.

SERVICEBOARD

- With the ServiceBoard, service cases are resolved faster and easier through video diagnostics with service partners (e.g., HOMAG).
- In addition, service cases can be documented, sent directly to the service partner, and tracked.
- With a maintenance overview, maintenance is easier to plan and carry out (online documentation).
- Furthermore, there is access to the HOMAG online spare parts shop eParts.
- The ServiceBoard supports maintenance and service staff in their daily work.
- It helps resolve service cases more quickly and improve your productivity.
- You can purchase this and other products at store.tapio.one.

DATASAVE

- DataSave helps you quickly resume production in the event of a machine failure by backing up your production and configuration data.
- You can easily back up data for all machines in a secure tapio storage at a time of your choosing.
- DataSave helps you Increased production reliability even in the event of failures
- Buy this and other products at store.tapio.one

MACHINE OPERATING

P.10004 Number: 6125 1 copy
MMR PROFESSIONAL FOR SINGLE MACHINES

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- Automatic recording of machine statuses and key figures via time counters and event counters from the machine control system
- Option to manually justify machine standby states
- Maintenance notifications display the required service work as needed
- Shift logging and evaluation
- Evaluation of key figures as daily and shift values and via the machine's operating counters
- Graphical evaluation of machine statuses as interval displays and in the form of Pareto, Gantt, and line charts
- Fault analysis via machine error messages
- Option to connect to MMR Office for central evaluation of data in the office

P.10007 Number: 6200 1 copy
DATA TRANSFER ONLINE + USB PORT
Functional scope:

- > Transfer of optimization data (SAW files) to the saw
- > View the current program sequence of the CADmatic control system from the office (AV workstation) to answer the following questions:
 - + Which job is currently being cut?
 - + How long will this job take?
 - + Which job will be split next?
 - + Which jobs have already been split today (history)?
- > Chat function between saw/operator and AV workstation (information exchange)
- > USB stick

SAFETY TECHNOLOGY PROTECT SECURE

P.11004 Number: 8998 1 piece
CE FOR SINGLE SAWS
Quality standards:

- + CE-certified
- + GS-certified

TOOL DATABASE

P.12004 Number: 9053 1 piece
MAIN SAW BLADE HM 380 X 4.4 X 60
Main saw blade 380 x 4.4 x 60 mm

- > Cutting material: Hard metal
- > Saw blade diameter: 380 mm
- > Number of teeth: 72
- > Tooth shape: Flat tooth with chamfer
- > Cutting width: 4.4 mm
- > Blade thickness: 3.2 mm
- > Mounting hole diameter: 60 mm
- > Side holes: 2 holes Opposite

Diameter 14 mm
Pitch diameter 100 mm

P.12007 Number: 9200 1 piece
SCORERING SAW BLADE HM 180X4.45-5.25X45
Scrolling saw blade 180 x 4.45 - 5.25 x 45 mm

- > Cutting material: Hard metal
- > Saw blade diameter: 180 mm
- > Number of teeth: 36
- > Tooth shape: Tapered flat tooth

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- > Cutting width: 4.4 - 5.25 mm
- > Blade thickness: 3.2 mm
- > Mounting hole diameter: 45 mm
- > Side holes: none

DOCUMENTATION

P.13004 Number: 8321 1 piece
LANGUAGE SELECTION: GERMAN
+ for operating instructions and on-screen operating texts
for machine operators in German

P.13007 Number: 0782 1 x
OPERATING INSTRUCTIONS ON DATA MEDIUM
(PDF file format)
+ Operating instructions consisting of operating and maintenance instructions
+ Spare parts descriptions
+ Circuit diagrams in German and English
+ Help texts integrated into the machine control system
+ Operating system dialogs in English

P.13013 Number: 0783 1 x
OPERATING INSTRUCTIONS IN PAPER FORM
+ Operating instructions consisting of operating and maintenance instructions

SERVICE AND TRAINING

P.14004 Number: 8739 1 x
TELESERVICENET - SOFT
+ Remote diagnostics via the Internet for
fast, cost-effective, and reliable remote service
+ Billing according to a separate remote service contract
+ Internet connection must be provided by the customer
+ Access to one machine PC possible
or 8745 required.