FerWood®
BRILLIANT SOLUTIONS FOR WOOD

HOMAG Panel Saw
Sawteq 8-400 HPL 38/16

SAWTEQ B-400 Profiline - Profi HPL400/38/16

PANEL SAW
- Panel saw unit cut laminated and raw wood- based panels and other panels with cutting characteristics similar to those of wood-based panels. Cuts are chip-free and dimensionally accurate.

Rear Machine Table
- Clamps guide the material over the high- quality roller rails of the rear machine table, ensuring gentle handling.

Program Fence
- With the help of rugged clamps, the program fence automatically positions the panels at the cutting line.

Benefits:
- H-girder guide - ensures lifetime accurate positioning
- rack and pinion drive dispenses with lubrication
- drive via AC servo motor
- non-contact electro-magnetic measuring system
    - no wear
    - no maintenance
    - measuring is completely independent of drive system
- short, rugged clamps
    - no negative leverage effects
    - material is pressed into the base of the clamp, panels do not slip out of alignment

Machine Body
- The machine body is equipped with large, wear- resistant table boards.

- no milling of the machine table, full stability of this steel table is retained
- easy, low-cost replacement of the table boards
- optimised suction in the clamp grooves

Pressure Beam
- The pressure beam ensures the panels are securely clamped on the machine table during the cutting process.

- torsion-resistant pressure beam
- minimum wear
- contact pressure can be adjusted by manometer and remains consistently stable
- linear guide and parallel adjustment by rack and pinion ensure high-precision guiding
- uniform contact pressure over the entire area
- the slots for the clamps allow minimal trim and dust cuts for maximum utilisation of the panel

- very efficient extraction due to minimum of openings in the pressure beam. Emission values are far below those stipulated by government safety organisation.

Saw Carriage and Side Aligner
- The solid steel saw carriage is equipped with a main saw aggregate.
- + heavy-duty steel saw carriage (approx. 300 kg):
  - torsion-resistant
  - cutting towards the angular fence prevents the panels from slipping out of alignment and ensures optimal extraction
- + saw carriage with rack and pinion drive
  - no lubrication required
  - main saw motor is not raised thanks to patented rocker solution
  - no vibrations, therefore excellent cut
- quality
  - 10 year warranty on saw carriage guides
  - optimised saw blade change due to the fast clamping system Power-Loe
  - patented central side aligner at the cross saw
  - reduces cycle time by up to 25% in comparison with conventional systems
  - allows strips to be aligned over the entire cutting length
  - contact pressure can be adjusted electrically, thus allowing thin panels and pressure-sensitive panels to be aligned too

Requirements to be provided by the customer:
- Minimum operating temperature
- Maximum operating temperature
- Shop floor requirements:
  - concrete grade C25/30
  - concrete thickness min. 200 mm without covering layers (e.g. parquet, bitumen)
- Customer is responsible for grouting all the machine stands with non-shrink grouting material after assembly has been completed
- Pneumatic shut-off valve at pressure beam provided by customer, recommendable
- Electric control of the valve provided for in the wiring cabinet
  - The machines are not suitable for connection to a RCD {Residual Current Device)due to operational leakage currents. Instead the recommendation is to route the supply in such a way as to prevent ground faults or short circuits (e.g. in accordance with DIN VOE 0100-520/521.11)

Model-specific Machine Data
HPL400/38 Profiline
- Cutting length 3800 mm
- Working height 920 mm
  - +/-0.1 mm/m positioning accuracy of the program fence (figures do not apply to the cut parts)

Highlights
- ecoPlus technologies save up to 20% on energy:
- standby button
- motors with IE3 energy efficiency rating reduction of exhaust air volume by more than 15%
- automatic cutting height control

- linear guide and parallel adjustment of the pressure beam by rack and pinion ensure high-precision guiding
- observation window in pressure beam allows an insight into the rear machine table
- Active suction above the angular fence for the cuttings created during the rip cut
- Access to the saw body for cleaning purposes via flaps at the front
- Chopping edge at the angular fence

SAW BLADE PROJECTION 125 MM

RIGHT- ORIENTATED EXECUTION
- The saw is cutting from left to right against the right angular fence.

LAQUERING
- lacquering of the machine and safety fence posts in RAL 9003 signal white
- design strips, safety fence fields,
- safety doors and stela in RAL 7021 dark grey

LIFT TABLE
- Feeding is performed by a four-column lift table with electro-hydraulic drive unit.
  - automatic measurement of book height
  - maintenance-free and no lubrication required
  - automatic feeding significantly boosts output
  - platform is easily levelled
  - considerably reduced stack change times in comparison to the lift tables with spindle drive

Technical data:
- Permissible panel unevenness 2 mm
- Panel thickness greater than/equal to 9,5 mm
- Thickness tolerance per panel max.+/- 0.2 mm
- Stack accuracy +/- 50 mm

- Lift table length 3800 mm
- > min. panel length 1200 mm
- > max. panel length 3710 mm

- Lift table width: 1600 mm
- > min. panel table width: 400mm
- > max. panel table width: 1600 mm

- Capacity: 7 to

LIFT TABLE PLATFORM
- Lift table platform:
  - [1] lengthwise [2] crosswise
  - [1]
- Forward speed: V 11,8 m/min (50 Hz)
- V 14,6 m/min (60 Hz)

- Distance between rollers:
- 198 mm

- Forklift cut-outs:
- 1050 x 250 mm

COLUMNS FOR LIFT BASIC

INSTALLATION
- + At floor level
- + Stacking height max. 560 mm

EXTENSION OF MACHINE BY 250MM
- for max stack height: 810mm
- with standard lift table columns
- identical to machine 0-240-66-9997

ROLLER TRACK SECTION, NON-DRIVEN
- consisting of 3 non-driven rollers

- Distance between rollers 7.8 inches) 198mm
- Diameter of rollers 4.3 inches) 108mm
- Length of roller track 19.7 inches) 505 mm

    - + Position:
    - [{LFC_Infeed_stack_FP}]
    - + View from loading position:
    - > [1] right, [2] left, [3] behind
    - [{LFC_Infeed_throughfeed_value}]

HEAVY DUTY ROLLER TRACK

Technical data:
- Length of roller track: 3800 mm
- Width of roller track approx.: 1600 mm
- Distance between rollers: 198 mm
- Forklift cut-outs: 1050 x 250 mm
- Height of roller track: mm
- Diameter of rollers: 108 mm
- Forward speed:
    - V 11,8 m/min (50 Hz)
    - V 14,6 m/min (60 Hz)

- Drive capacity: 0,75 kW (50 Hz)
    - Position:[FP6]
    - View from loading position:
    - > [1] right, [2] left, [3] behind
    - [2]
- Loading direction:
    - [1] from the front, [2] from behind

- [2]

SEPARATE SAFETY AREA INFEED ROLLER TRACK(HER)
- Advantage: the stack feeding of roller track can taken place without interruption of the machine processes (process optimization).

2 MICRO INFEEDS
Measuring and feeding units for the feeding of books of panels.
- Exact measurement of books by means of a non-contact measuring system mounted on every micro infeed
- Minimal cycle times

Consisting of:
- Measuring and lifting device
- Feeding device

Technical data:
- Permissible panel unevenness 2mm
- Board thickness>= 6mm
- (with option 1040 'Hold back device for thin boards' min. 3 mm possible)
- Thickness tolerance/board max. +/- 0J2 mm
- Stack accuracy +/- 500mm
- Maximum book height for feeding saw blade projection

HOLD BACK DEVICE FOR THIN BOARDS
- It enables the program controlled) reliable feeding of thin panels from the lift table on the machine.

Your benefit:
- Time saving by automatic feeding
- Reliable feeding procedure

Technical data:
- Waviness: Max. 15 mm/m
- Board thickness: Min. 3mm
- Tolerance of thickn. per panel:max.+/- 0,2 mm
- Stacking accuracy: +/- 30 mm
- Possible infeed package height: max. cutting height of the saw

CARRY MATERIAL

ROLLER RAILS INSTEAD OF HAT PROFILE RAILS
- incl. 4 additional roller rails
- identical to machine 0-240-66-9997

EXTENDED EQUIPMENT OF ROLLER RAILS
- For thin boards with less than 5 mm thickness to prevent boards/strips from sagging.
- maximum unsupported distance between rollers in standard: 678mm
- Maximum unsupported distance between rollers for Extended: 457mm

1M MC-TABLE BOARDS,ANODISED ALUMINIUM WITH JETS x 4
- for highly sensitive material.

POSITION MATERIAL, RIP SAW

PROGRAM FENCE SPEED
Forwards 25 m/min
Backwards 90 m/min

ELEVATED PROGRAM FENCE GUIDES

STANDARD CLAMPS x 7
- clamps have two fingers and a lifting element
  - Position:
    75 / 275 / 475 / 1075 / 1525 / 2325 / 3125 mm
- measured from angular fence to centre of clamp

ADDITIONAL CLAMPS
- clamps have two fingers and a lifting element
  - Position:
    175 mm
- measured from angular fence to centre of clamp

ALIGN LATERIAL

ALIGNING DEVICE
- Aligning devices align the panel stack towards the clamps' base.

PRESSURE BEAM HEIGHT CONTROL*
- Thanks to the book height dependent raising of the pressure beam) shorter cycle time can be achieved during the cuts.

SPRING-LOADED ROLLERS
- Spring-loaded rollers.
- At all times exactly fitting rollers in the saw carriage guidance!

Your benefit:
- Maximal smoothness of movement
- Constant high precision
- Low maintenance guidance system

SAW CARRIAGE SPEED 1S0 M/MIN

DUST REMOVAL BLOWING UNIT PHOTOCELL
Performance increase of the installation Your benefit:
- Faster cycle times
- Reduction of the unit costs

MAIN SAW MOTOR 28,0 KW

PNEUMATICAL MAIN SAW LIFT SERIES

CUTTING LINE CONTR, MAIN SAW*
- Sensory recording of saw blade deformation
- during the cutting process. In case of de- formation, cutting will be stopped when exceeding limiting value,
- Useful specially in case of dust cuts or rather extremely tensed materials.

SCORING SAW UNIT

SCORING SAW MOTOR 2.2 KW

MOTOR-DRIVEN SCORING SAW LIFT

ELECTRICAL SCORING SAW ADJUSTMENT
- by pressing buttons at the operating panel or by adjusting the cross lines at the touchscreen

ASSIST OPERATOR

INTELLIGUIDE BASIC*
- World market novelty!
- Optical LED-assistance system to support the operator while working with parts.

Your benefit:
- Efficiency increased by accelerated operating steps
- Continuous plausibility check assists error prevention
- Improved operating comfort

The option contains:
- Interactive LED bar with coloured position and status indication.

TRANSFER WORKPIECE

AIR TABLE 2160 X 800 MM x 3

1 ROLLER ELEMENT IN FRONT OF AIR TABLE X 2
- For easy and smooth transport of one or several boards of a stack onto the air floatation table.

1 AIR TABLE, FREESTANDING 2100 X 800 MM
incl. fan

ENERGY AND SUPPLY

INST. METH. OF SWITCH PANEL (UL/CSA) SINGLE SAW

OPERATING VOLTAGE 480 V

FREQUENCY 60 HZ

CENTRAL FAN WITH INCREASED CAPACITY
- by integrated frequency control.
- Max. increase of pressure compared to standard
- version:
  - at 50 Hz: factor 3J5
  - at 60 Hz: factor 2,5

- The pressure can be defined infinitely variable at the control panel by adjustable transformer.

- with angular saw units only cross cut saw

MACHINE

OPERATING PANEL
- CADmatic control with assistance graphic
- With a 24 inch full HD= multitouch display in widescreen format

- POWERCONTROL V2.1
- Modern control system based on a Windows PC

Hardware:
- PLC control accord. to International Standard IEC 61131
- modern PC with operating system Windows
- backup manager and storage medium for com- fortable data backup
- USB connection
- digital drive technology
- decentralized, digital field bus system
- virus protection software
- network compatible
- data transfer via network+usb-port for transfer of optimized cutting plans (SAW files) to the saw via network connection or USB stick

Software:
- equal HOMAG operating surface powerTouch
- ergonomic touch operation with gestures such as zooming, scrolling and swiping
- easy navigation for equal and intuitive operation of the machine
- integrated tool management with acquisition of wear data
- error diagnostics supported by true photos and video sequences

The control of the machine is not suitable to process personal data within the meaning of EU ·DSGVO.

PC KEYBOARD: ENGLISH

CADMATIC 5

TAPIO READY

with the purchase of your HOMAG machine, the machine is already prepared to be connected with tapio (connecten)this functionality gives you the opportunity to use tapio's innovative digital products and of tapio partners to be ready for the future
find out more from your HOMAG Sales team or at www.tapio.one
the machine is delivered as "tapio ready" please consider that some offers and ser- vices of tapio only can be used, if you register for this, register the machine resp. connect it and if you activate Services for it, More information find under store.tapio.one or contact your HOMAG sales team.
The "tapio ready" functionality additionally achieves that when starting the machine a connection to the tapio agency service is automatically made, in order to check by means of the machine number, whether this machine is activated and authorized for the use with tapio.

TOOL

MAIN SAW BLADE HM

- 1 main saw blade 450 x 4.8 x 60 mm
  - Cutting material: carbide (TCT)
  - Saw blade diameter: 450mm
  - Number of teeth: 72
  - Tooth shape: flat with chamfer
  - Kerf width: 4.8mm
  - Saw blade plate thickness: 3.5mm
  - Arbor hole diameter: 60mm
  - Pinholes: 2 holes opposite
    Diameter 14 mm
    on pitch circle 125 mm

SCORING SAW BLADE HM 180 X 4,8-5,65 X 45

1 scoring saw blade 180 x 4.8 - 5.65 x 45 mm

- Cutting material: carbide TCT
- Saw blade diameter: 180mm
- Number of teeth: 36
- Tooth shape: flat/conical
- Kerf width: 4.8-5.65mm
- Saw blade plate thickness: 3.5mm
- Arbor hole diameter: 45mm
- Pinholes: none

SELECTION OF LANGUAGE: ENGLISH

- for operating manuals and display texts for machine operators in English

OPERATING MANUAL ON DATA MEDIUM

- (data type PDF)
- Operating manuals consisting of operating and maintenance instructions
- Spare parts descriptions
- Wiring diagrams

MANUAL ON PAPER
- Operating manuals consisting of operating and maintenance instructions

COPY OF DIGITAL DOCUMENTATION FOR SSC/SSP
- consisting of manuals and maintenance guidelines, spare parts lists and electrical plans on data carrier

SELECTION OF LANGUAGE: SPANISH
- for operating manuals and display texts for machine operators in Spanish

FURTHER PRODUCTION INSTR. DIGITAL ON DATA
- carrier
- consisting of operating and maintenance instructions, as well as spare parts drawings and wiring diagrams
- data format PDF

SERVICE, TRAINING AND SUPPORT

SERVICEREMOTE
- serviceRemote - the TeleSercvice solution of the future.
- Our HOMAG service experts will assist you as usual in all your matters concerning machine technology via the ServiceBoard app, by phone or e-mail. With serviceRemote you will benefit from an even faster and future-proof technology for the remote diagnosis.
- Please provide an internet connection as well
- as the access to "Port 443 HTTPS".

- The setup of the serviceRemote connection is done via your tapio account at my.tapio.one by assigning the automatically
- provided serviceRemote license to your machine. Kindly note that the remote diagnosis can only be executed when the license has been assigned to your machine previously. You will get the full functional range when your machine is in the status "tapio-connected"

CE FOR SINGLE SAWS
Quality standards:
- CE certified
  - EC conformity (CE) according to the currently valid Machinery Directive for individual machines in operation
  - according to the Machinery Directive an additional EC conformity certificate for linked machine operation
  - (cells/plants) is required in the defined countries.
- GS certified
- BGI 739-1