

COMBI Sanding Machines

Calibrating & Sanding solutions

MODELS

COMBI belong to MEAS Super Performance and Super Performance eXtended models and are available in many different configurations to meet all calibrating and sanding needs. Versions with only top or bottom units are also available.

COMBI 2.x

Equipped with two asymmetric opposite units, this machine is perfect to obtain a precise control of the sanding process on top and bottom surfaces.

COMBI 3.x

Two opposite units and one offset head make this machine suitable for products with differentiated surfaces, such as plywood panels.

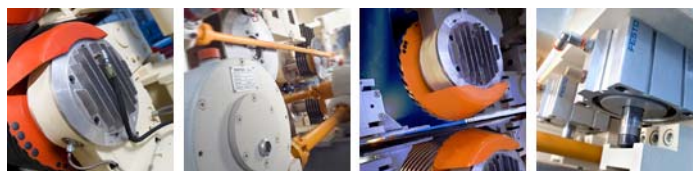
COMBI 4.x

The maximum sanding capacity in a single frame: up to four units!

COMBI 4.X is the right choice to optimize space, investment and production capacity.

EXTENDED VERSION

COMBI eX (extended) machines are so-called because they improve the productivity with a feeding speed up to 150 m/min and they reduce operative costs through the use of an extended abrasive belt of 4000 mm length.



High quality and reliable sanding equipment dedicated to the modern panel board Industry

COMBI machines are used to calibrate and fine sand MDF, HDF, Particleboards, plywood as well as OSB, LVL™, Fiberglass, fiber-cement boards and others composite materials.

The COMBI concept was developed to provide great flexibility through the combination of different types (roll, roll-platen, platen) and number (up to four) of working units in a single frame. Configurations with only top or bottom units, as well as symmetric or asymmetric units are also available.

The IMEAS exclusive abrasive belt tensioning and tracking systems along with the high precision of dynamic balancing of all rotating parts (contact, tension and platen driving rolls) allow sanding speeds up to 150 m/min even with 1,5 mm thin boards.

The possibility to adjust roll parallelism and sanding platen flexion coupled with the heavy duty and precise construction of the machine gives as a result a homogenous thickness and a consistent surface finish.

A simple operating panel, surrounded by icons and code-colours, allows an easy machine operation. Only few adjustments (when no adjustments at all) are needed to set up the machine once the production changes.

To satisfy all needs, COMBI machines are available in three sizes: **Standard (S)**, **eXtended (eX)** and **eXtended Large (eXL)**.

General Data

FRAMES & MATERIALS

- IMEAS uses only first choice materials from ISO 9001 certified companies
- All frames are made of electro welded steel. They are stress relieved, sanded, prime-coated and carefully painted

MOTORS

- IMEAS uses only high efficiency motors of first class brands
- Feeding speed is controlled by AC motors and frequency controllers
- Installed powers in accordance with the job to be performed

CONTROL & INTERFACING

- PLC Siemens S7/300
- Easy to use controls, with TFT operator panel or push-buttons
- ProfiBus™ connections by Siemens

ELECTRIC CABINET

- Main switch for insulation from the main line power
- The cabinet is built in separated and disconnecting sections for easy transportation.
- Full cooling or air-conditioning

PNEUMATIC PLANT

- Fully accessible
- With emergency tank
- Lockable inlet, monometer and pressure adjustment

NOTES

1. The configuration with only one top or bottom unit is also available.
 2. Only available on high-speed rotating bearings.
 3. Option available at extra price.
- IMEAS spa reserves the right to change any information without notice.

Data sheet & Comparison chart

by MODELS

	COMBI 2.x	COMBI 3.x	COMBI 4.x
No. of sanding units	2 asymmetric	2 opposite + 1 asymmetric	4 opposite
Configuration	A mix of rolls (C), roll-platens (RP) and platens (P) units		
Useful widths	1300 – 1600 – 1900 – 2300 – 2600 – 2900 -3200 - 3800 mm		
Thickness range	1,5 ÷200 mm		
Main motors (up to)	250 kW (Rolls) - 175 kW (Roll-platens) - 110 kW (Platens)		
Machine opening	Up to 300 mm		
Machine weight	20.000÷55.000 kg (depending on width and configuration)		

by VERSION

	S	eX	eXL
Available on widths	1600 ÷ 2900 mm	2300 ÷ 2900 mm	2900 ÷ 3800 mm
Contact roll diameter	400 mm	500 mm	
Roll-platen roll diameter.	350 mm		
Sanding platen width	120 mm - with Slide Pad system by SIA Abrasives®		
Abrasive belt length	3200 mm	4000 mm	
Abrasive belt width	Useful width + 50 mm		
Machine pass line	1630 mm	1950 mm	
Feeding speed	10÷100 m/min	15÷150 m/min	

OTHER FEATURES

- Wide screen with touch panel graphical interface
- Top cleaning brush at machine infeed and top/bottom air cleaning device at machine out feed
- Integrated bearing temperature monitoring system with alarm interface ⁽²⁾
- Integrated lubrication circuit ⁽²⁾

OPTIONAL FEATURES

- Adjustable belt tracking photocells position for different abrasive belts widths ⁽³⁾
- Refrigerator for platens cooling ⁽³⁾
- Electronic interfacing and self-setting of working units position ⁽³⁾
- Abrasive belt replacement trolley ⁽³⁾
- Sound proof cabin ⁽³⁾
- On board vibration control system ^(2, 3)
- PLC and OP of different brands ⁽³⁾