

UltraFinishing™ Brushing Machines

Calibrating & Sanding solutions

MODELS

UltraFinishing™ (UF) machines are available in three different configurations to meet all needs for ultra-fine and homogeneous surface finishing.

UF-2T

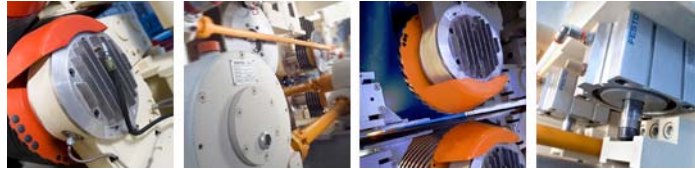
Equipped with two opposite units, this machine is perfect to obtain a precise control of the ultra-finishing process on medium-to-thick boards.

UF-2T-ASYM

Equipped with two opposite asymmetric units, this machine is ideal to obtain a precise control of the ultra-finishing process on thin boards.

UF 4T

Four opposite units make this machine suitable for very high speed lines.



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

This process was introduced for wood-fibre panels (MDF/HDF) and it is performed by means of an abrasive roll (ScotchBrite™ type) which brushes the surface of the panel. The combination between the high number of revolutions and the oscillation of the roll produces a surface characterized by a very high homogeneity and low roughness.

It is particularly suitable for panels which have to be laminated with light melamine papers or have to be used "at sight".

The UltraFinishing™ unit is generally installed at the end of a calibrating/sanding line with 6-8 units and it is composed of 2 or 4 brushing heads opposite or asymmetric. The variety of abrasive rolls available allows to achieve a virtually infinite range of results.

As a value added process, UltraFinishing™ machines allow to:

- improve the surface appearance of the panel
- produce a surface with reduced roughness and increased homogeneity
- optimize the application of melamine papers.



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, manometer and pressure adjustment

NOTES

1. Only available on high-speed rotating bearings.
 2. Option available at extra price.
- ScotchBrite is a trademark of 3M Corporation.
IMEAS spa reserves the right to change any information without notice.

Data sheet & Comparison chart

MODELS	UF-2T	UF-2T-ASYM	UF-4T
No. of finishing units	2 opposite	2 asymmetric	4 opposite
Configuration	Brushing (UF) units		
Useful widths	1300 – 1600 – 1900 – 2300 – 2600 – 2900 -3200 - 3800 mm		
Thickness range	1,5 ÷ 50,0 mm		
Main motors (up to)	45 kW		
Oscillating motor	5.5 Kw		
ScotchBrite™ roll size	Inner diam.250mm – Outer max diam.450 mm		
Peripheral speed of brushing rolls	10÷20 m/s (850÷1275 rpm, according to actual outer diameter), electronically controlled		
Oscillating frequency	40÷100 cycles/min (80÷200 strokes/min)		
Oscillating amplitude	5÷25 mm		
Feeding speed	Up to 15÷150 m/min		
Machine opening	Up to 300 mm		
Machine pass line	1280 mm		
Machine weight	20.000÷55.000 kg (depending on width and configuration)		

OTHER FEATURES

- Wide screen with touch panel graphical interface
- Integrated bearing temperature monitoring system with alarm interface⁽¹⁾
- Integrated lubrication circuit⁽¹⁾

OPTIONAL FEATURES

- Sound proof cabin⁽²⁾
- PLC and OP of different brands⁽²⁾