

UltraFinishing™ Brushing Machines

Surface finishing solutions

MODELS

UltraFinishing™ (UF) machines are available in three different configurations to meet all needs and achieve an homogeneous surface finishing.

UF-2T

Equipped with two opposite units, this machine is the starting point to process both faces of the plates.

UF-2T-ASYM

Equipped with two opposite asymmetric units, this machine is ideal to process thin plates or when occasionally just one face has to be brushed, according to end user requirement.

UF 4T

The four opposite units make this machine suitable for high productivity lines.



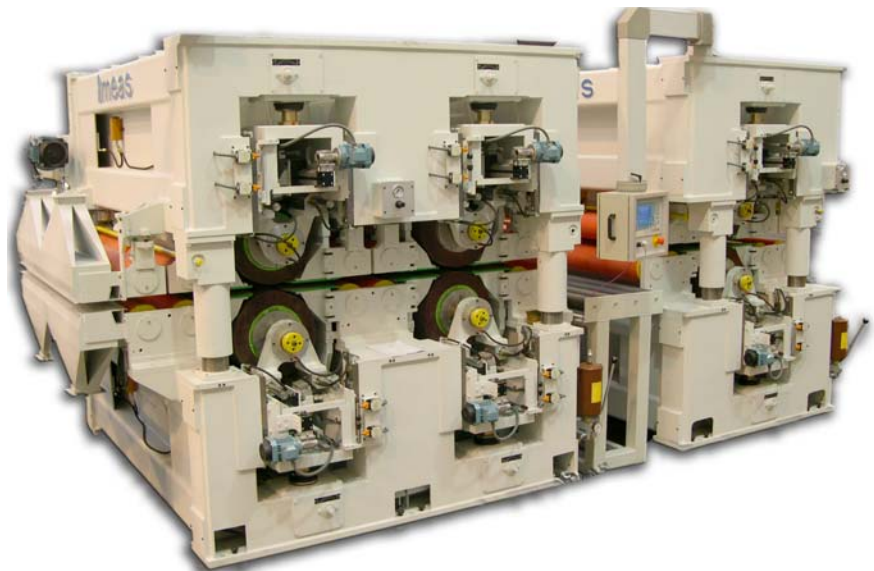
High quality and reliable equipment dedicated to the stainless metal processing

This process is performed by means of a series of abrasive rolls (ScotchBrite™ type) that brush the surface of the plate. The combination between the high rotational speed and the oscillation of the roll produces a surface characterized by low roughness and high homogeneity.

A typical UltraFinishing™ line includes at least 4 brushing units that can be of different type and hardness to produce a virtually infinite variety of effects.

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

- improve the surface appearance of the plate
- produce a surface with reduced roughness and increased homogeneity
- remove defects as scratches etc.



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 mm		
Thickness range	1,5 ÷ 200 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 5÷50 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⁾