

FCS Full Control System™



*Management Software
for Sanding Lines*

A screenshot of the IMEAS FCS Full Control System software interface. The interface is displayed on a monitor and features a central schematic diagram of a sanding line with various machines and rollers. The schematic includes labels for 'Blower', 'Brush', 'Feed Machine 2', 'Lifting Machine 2', 'Feed Machine 1', and 'Lifting Machine 1'. The 'Blower' and 'Brush' sections have 'Run' and 'Fault' status indicators. The 'Lifting Machine 2' section shows a '+0.00 mm' target and a '0.0 m/min' speed. The 'Feed Machine 1' and 'Lifting Machine 1' sections also show '+0.00 mm' targets. On the left side, there is a vertical toolbar with several icons: a gear, a house, a purple 'AMP' button, a speech bubble, a gear, a green document icon, and a blue 'AUX' button. The top left corner of the interface displays the IMEAS logo and the date/time '5/26/2016 8:22:57 AM'. In the bottom right corner, there is a logo for IMEAS, featuring a stylized 'M' inside a laurel wreath, with the text 'IMEAS' below it and '1966 50 Years of 2016 Innovation and Service' underneath.

Features & Benefits

The futuristic **Full Control System™** (FCS) combines the best mechanics and electronics into an easy-to-use graphical interface.

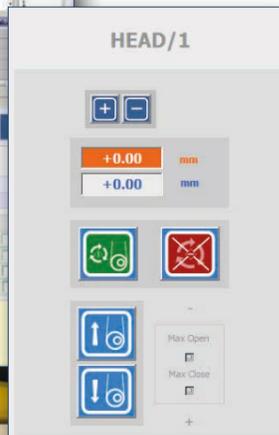
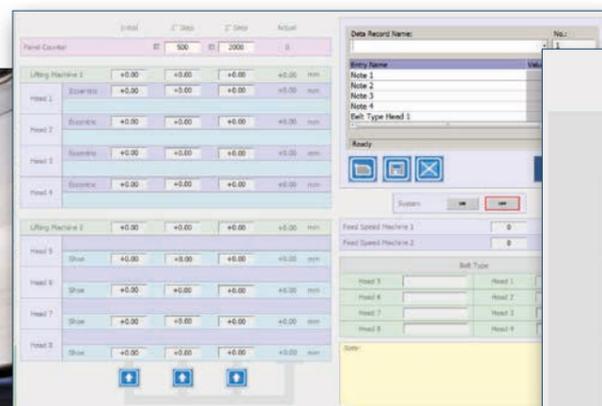
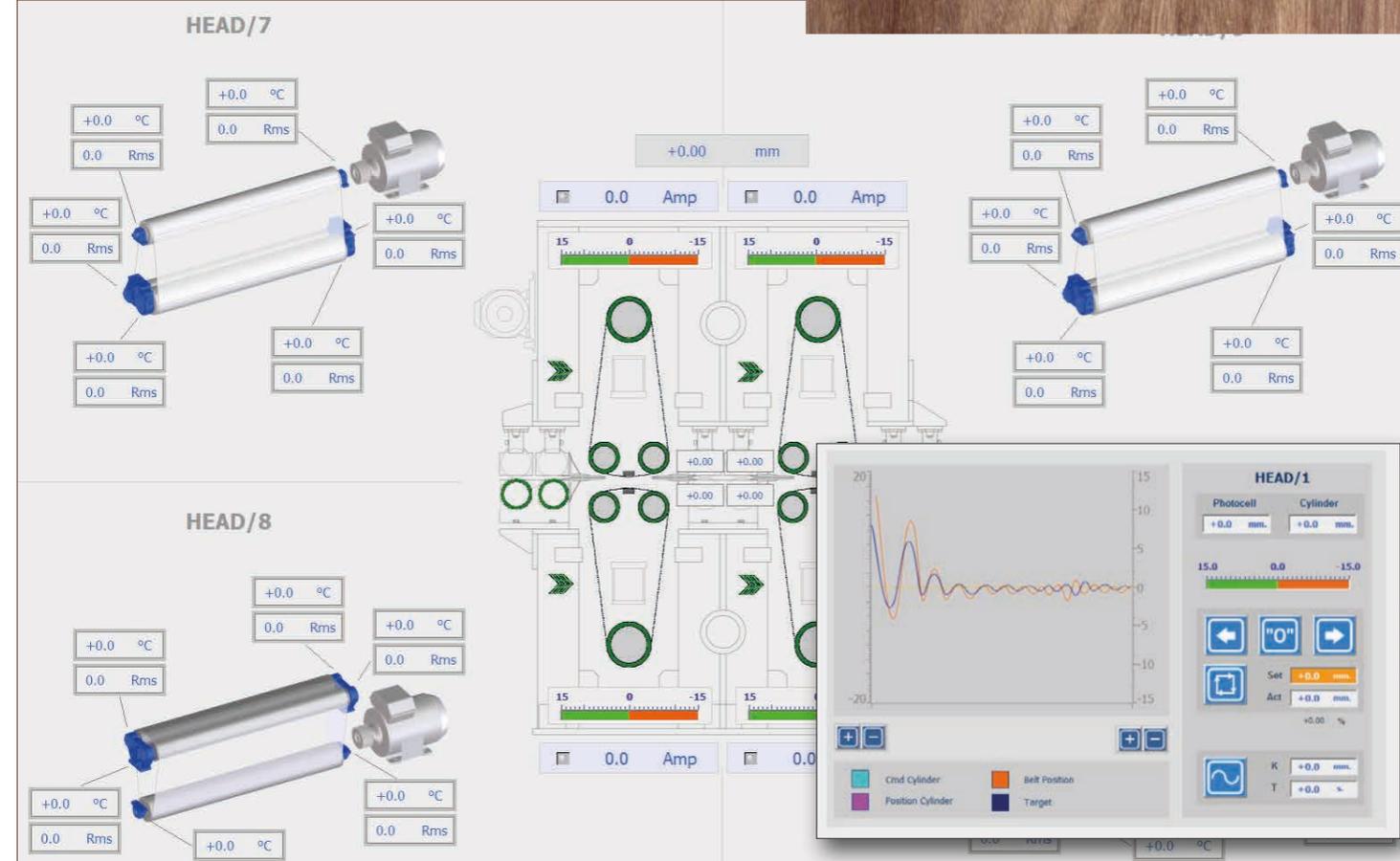
With the easiness of a click, it is possible to control every aspect of the sanding process, from the start of a motor to the oscillation of the abrasive belt, the health of a bearing as well as the fine tuning of a sanding unit.

Data are displayed in a clear and uncluttered way, using color-coded icons and machine mimics that dramatically reduce the learning curve and boost productivity.

Working recipes, sanding policies, trends, logs and user-customizable alarms are useful to quickly preset the line and monitor the health of each machines.

The built-in Imeas **TeleAssistance™** service allows you not only to monitor the sanding line remotely but even to integrate it with your ERP system for data exchange and setting.

Needless to say, our solutions are ready for **Industry 4.0**.



EASINESS OF USE

A synoptic view of the sanding line together with a rational graphical interface and local language support enables an easier use of the FCS thus reducing the learning curve drastically.

CLOSE LOOP OPERATION

The FCS system can be combined with a measuring device to track the board thickness and automatically adjust every unit to achieve the desired result.

OPTIMIZATION

Based on specific product characteristics it is possible to optimize the process in terms of energy and consumables consumption.

COST REDUCTION

The remote management capabilities together with the process optimization of FCS allows to reduce the direct sanding operating costs up to 15%.

RECIPES

The use of "recipes" makes it easy to store and recall customized working configurations

of the machine according to the actual job. The sanding units will reset their working positions in less that 10 seconds!

SANDING POLICIES

The Sanding policies are designed to implement automatic adjustments and to warn operators when certain conditions happen.

INTEGRATION

Data exchange with ERP systems for self configuration and quality control.

FLEXIBILITY

The system can be customized to suit Customer's needs in terms of warnings, working recipes and sanding policies.

SECURITY

Password-protected access with multi user capability and possibility to limit the functions used by each account.

Key Features

Sanding line working parameters

Speed adjustment
Thickness adjustment
Individual units positioning with resolution of 0,01 mm (either manual or by recipes)
Incremental unit positioning on each unit (either manual and by sanding policies)
Start & Stop of each unit
Start & Stop of the feeding system
Start & Stop of the cooling system for sanding platens

Sanding line status & info

Detailed information on key components
Motors load (actual & historical) of each motor
Hi-speed bearings temperature
Hi-speed bearings vibrations control & analysis (optional)
Actual belt position (left/right)
Belt tensioning system status on each unit
Belt tracking system status on each unit
Belt breaking sensors on each unit
Brake pads status on each unit
Time counter (total & partial)
Boards counter (total & partial)

Configuration management

Recipes management
Sanding policies management
Configurable warnings
Configurable alarms
Configurable maintenance tasks

Users and local settings

Users management
Access level management
Keyboard locking/unlocking
Network management
Language selection

On-line documentation

On-line help
On-line spare part list
On-line use & maintenance manuals

IMEAS spa reserves the right to change any data without notice.