

# *FCS Full Control System™*

*Management Software  
for Sanding Lines*





# Features & Benefits

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

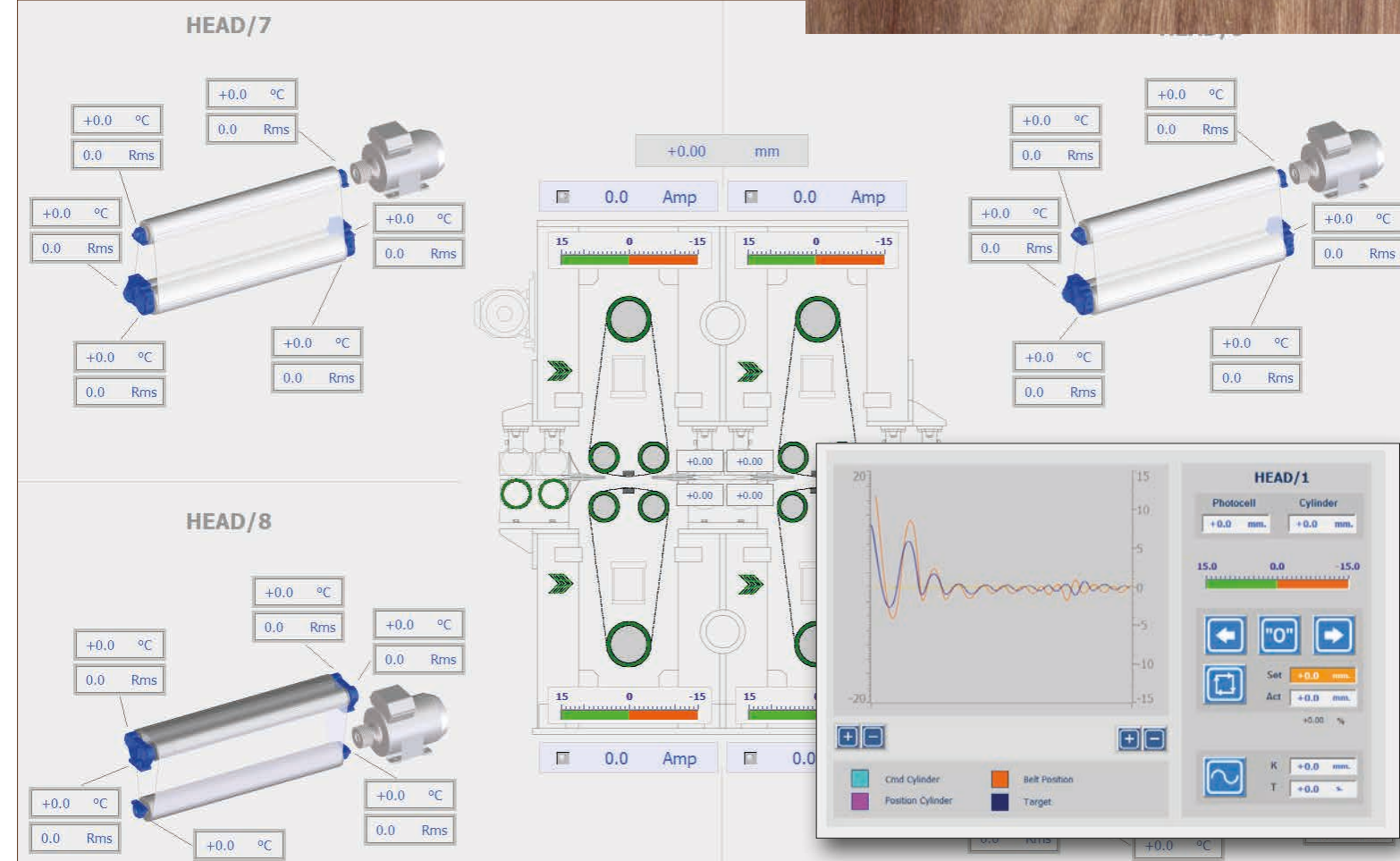
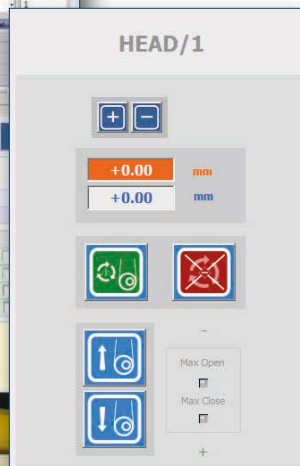
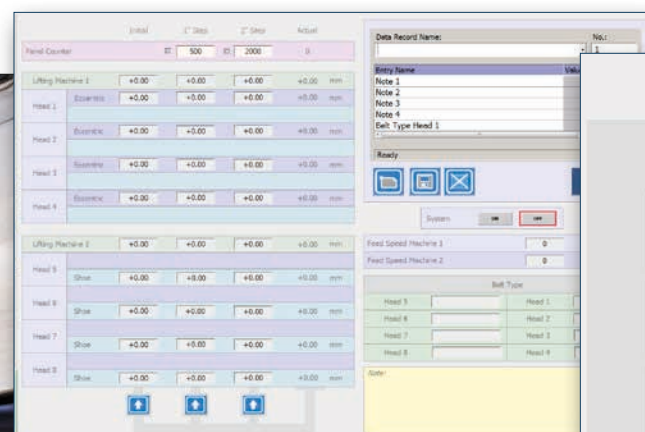
With the easiness of a click, it is possible to control every aspect of the sanding process, from the start of a motor to the oscillation of the abrasive belt, the health of a bearing as well as the fine tuning of a sanding unit.

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

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## Sanding line working parameters

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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

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## Sanding line status & info

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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)

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## Configuration management

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

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## Users and local settings

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

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## On-line documentation

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

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