

Full Control System™ (FCS)

Remote Management Software for Sanding Lines

15 YEARS OF INNOVATION

As a result of more than 15 years of innovation and evolution, the Full Control System™ from IMEAS allows to adjust each sanding unit by means of a servo-drive system simply typing its target position.

RECIPES FOR FAST CONFIGURATION

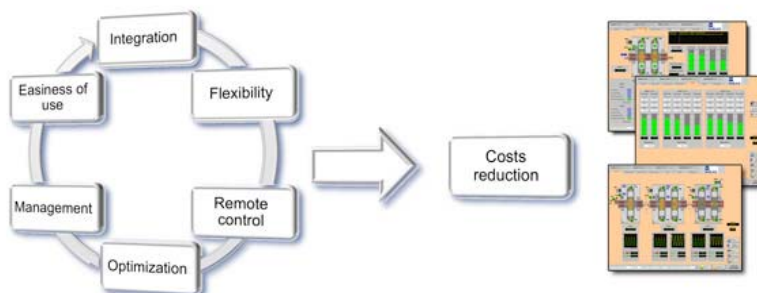
The use of “recipes” makes it easy to store and recall customized working configurations of the sanding units according to the actual job. The sanding machines will reset their working positions in less than 10 seconds, while a manual setup will take more than 15 minutes!

SANDING POLICIES

The Sanding policies are designed to implement automatic adjustments and warning when certain conditions happen, such as correcting the abrasive belts wearing.

CLOSE LOOP OPERATION

The FCS system can be combined with a series of thickness measuring devices placed before each sanding aggregate. In this way it is possible to track the board thickness precisely throughout the whole sanding process and automatically adjust every unit to achieve the desired result.



The IMEAS Full Control System™ (or FCS) is an advanced control, management and reporting software developed with the aim to simplify the use of a sanding line by any operator. Moreover, FCS helps optimizing and standardizing the sanding process and the consumables cost. Key benefits of IMEAS Full Control System™ include:

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

Integration: data exchange with ERP systems, and thickness measurement devices for automatic setup of operating parameters from the Control Room.

Flexibility: the use of open standards allows for a tailor-made configuration of the system, warnings, working recipes and sanding policies. FCS can be installed on existing lines, too.

Control: the sanding line can now be fully managed remotely, including setup for product change and actual working parameters. The sensors feedback provides a valuable source of data for both trend and quality evaluation.

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

Management: it is possible to implement security levels for multi-user access, to monitor the system functionality and network connections, and to find specific data of the components for maintenance or other purposes.

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.

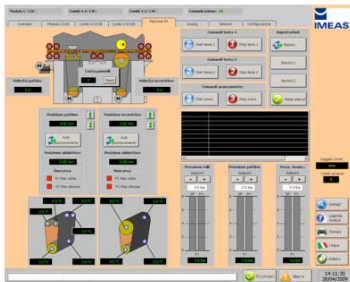
Screen Shots



Synoptic view of the line



Sanding machine details w/motor load



Sanding unit adjustment



Users management and local settings

Feature list

Sanding line working parameters

Speed adjustment

Thickness adjustment

Individual units positioning with resolution of 0,01mm (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

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)

FCS 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 (optional)

On-line use & maintenance manuals (optional)

Hi-speed bearings vibrations control (optional)

WHO IS USING FCS?

More than 100 units have been equipped with the IMEAS Full Control System™ that is actually used by many companies worldwide, including: Contiplus (Poland), Masisa (Chile and Brazil facilities), Mayr-Melnhof Kaufmann Gaisorn (Austria), Paneles Arauco (Chile and Argentina) and Rexcel (Mexico).