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# CLEANING SYSTEM FOR FIBRE

 ENGLISH





“ At last a plant for the production of MDF panels capable of eliminating those surface imperfections caused by small black spots. ”

It is generally known, that 98% of all MDF production lines have a common problem which is not solvable with traditional separation systems available on the market:

## Small black spots on the panels' surface.

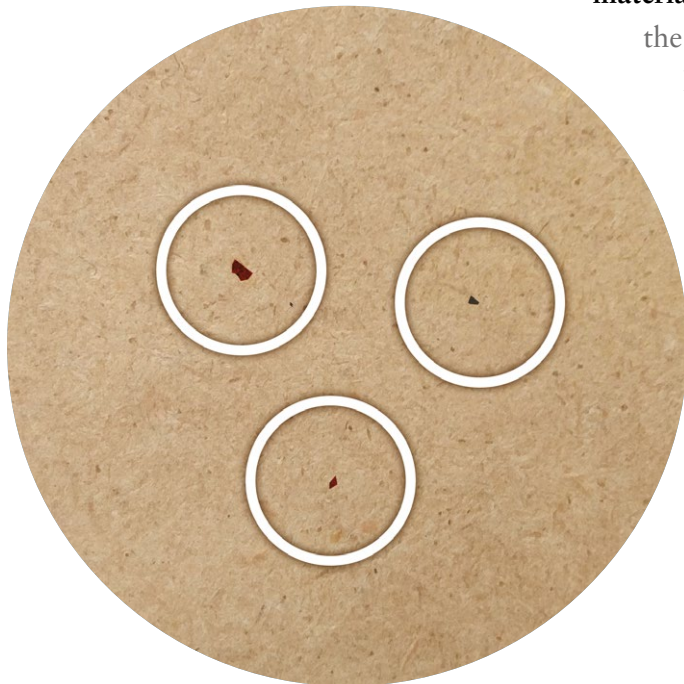
Today, after several studies, analysis and trials, Instalmec is proud to offer a **new generation technology of separators of material operating in two steps** and obtain a much higher classification efficiency compared to traditional systems on the market.

Instalmec's High efficiency MDF Cleaner separates both fine and coarse material eliminating **every kind of pollutants** contained in fiber wood such as rubber, glue lumps, small stones, sand, fiber lumps and foreign bodies.

The new Instalmec High Efficiency MDF Cleaner is the **first fiber cleaning system in the world in which fiber does not go through the fan**. In such a way the fiber does not enter in contact with the fan blades, instead it keeps its original structure and therefore the final result is an MDF panel whose mechanical characteristics are much higher than the average MDF panel.

## Advantages

- Higher efficiency than in traditional cleaners
- Considerable cut of the installed and absorbed power
- Excellent protection of the press steel band
- Improved panel quality
- Excellent panel surface
- Increased production of first quality boards
- Significant reduction of discarded panels
- Low production costs
- Compact installation





## MATERIAL BEFORE SEPARATION

Material that enters the Separator  
of the MDF System.



## REJECTED MATERIAL

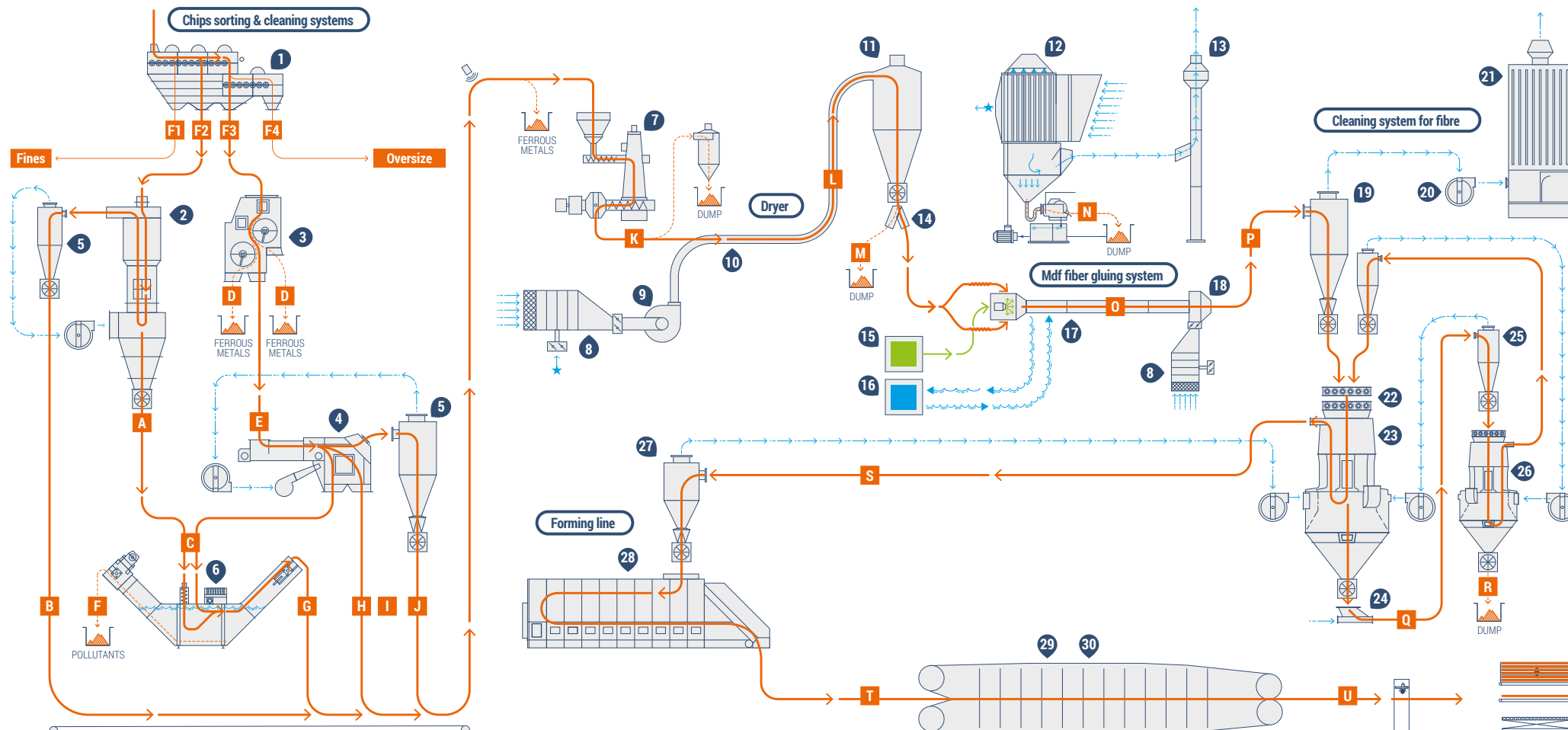
Glue lumps, fiber lumps, sand, heavy fiber,  
ferrous and non ferrous material, bark, stones  
and dirt inside the dryer.



## MATERIAL AFTER SEPARATION

Excellent material for production  
(no more lumps or black spots).

# Instalmec machinery and systems



## CHIPS SORTING & CLEANING SYSTEMS

- 1 - Disk roller screen
- 2 - Gravimetric separator
- 3 - Magnetic separator for metals
- 4 - Kinetic separator
- 5 - Cyclone LPD
- 6 - Water separator
- 7 - Defibrator (No Instalmec)

## DRYER

- 8 - Mixing chamber
- 9 - Dryer fan
- 10 - Drying
- 11 - Cyclone
- 12 - Heat exchanger
- 13 - Chimney demister
- 14 - Diverter

## MDF FIBER GLUING SYSTEM

- 15 - Glue preparation
- 16 - Chiller
- 17 - Dry inline gluing
- 18 - Mixing chamber

## CLEANING SYSTEM FOR FIBRE

- 19 - Pre sifter cyclones
- 20 - Filter fan
- 21 - Filter
- 22 - Defibrator
- 23 - Pre sifter
- 24 - Ejector
- 25 - Cyclone Post sifter
- 26 - Post sifter

## FORMING LINE

- 27 - Discharging cyclone
- 28 - Forming bunker
- 29 - Press system (No Instalmec)
- 30 - Press exhaust cleaning system

# The advantages of our solutions

