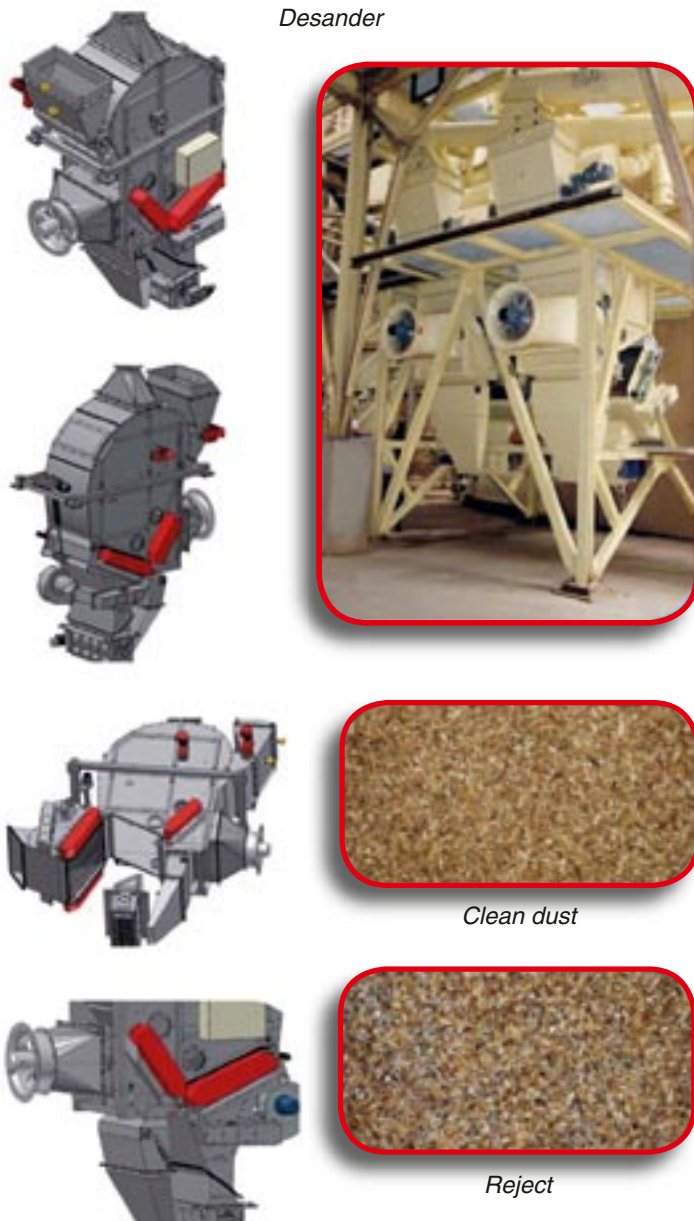


IMAL-PAL

# A product showcase

With a successful turnout at Ligna earlier this year, the IMAL-PAL group now presents an extensive showcase of its latest products, highlighting the new MDF resination system in its current line-up.

*Desander**Clean dust**Reject*

IMAL, an Italian ISO 9001-certified company, is undoubtedly the world's leading supplier of gluing systems for the wood-based panel industries with over 1,400 glue blenders and 770 gluing systems installed to date. Imal not only specialises in gluing systems and blending equipment, but also in on-line quality controls, laboratory testing equipment, and in the supply of a patented blending system for the production of MDF boards, which allows the end consumer to achieve substantial resin savings, reduce formaldehyde emission and increase dryer capacity.

The IMAL MDF fibre resination system has in fact been successfully installed in 21 MDF plants, four of which were installed in 2008 in Turkey, Germany, France and Brazil. Following the success of the MDF resination system, a new OSB resination system is currently being designed to improve resin distribution, reduce the amount of resin consumed, and eliminate inconveniences like cleaning out large drum blenders.

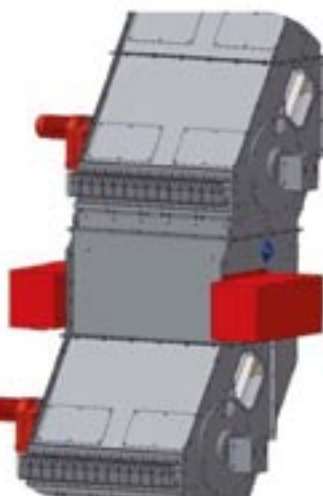
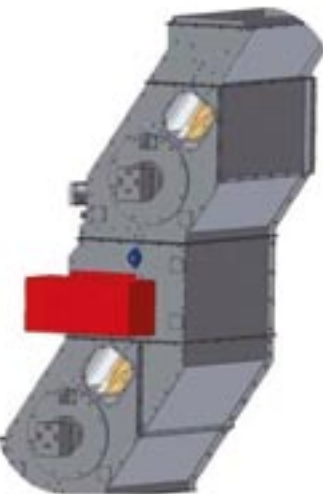
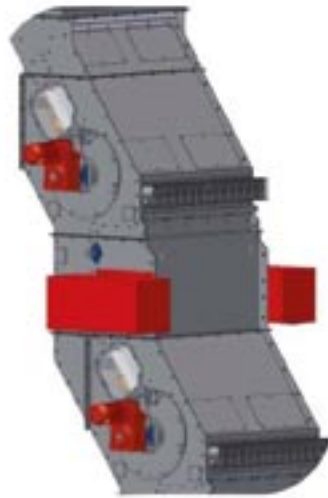
Spanning 35 years of experience, IMAL recently became a majority shareholder in PAL, its former partner, thus creating a strong and powerful group with over 250 employees. The IMAL-PAL group enjoyed a very successful Ligna Trade Exhibition in Hannover this year, where a constant stream of customers and corporations confirmed that technological innovation has not been affected by the current global recession. IMAL-PAL presented a host of brand new products like the special pressed pallet block lines with excellent mechanical and physical properties: constant density, dimensions, thickness, impermeable. They do not split when nailed, and above all, waste wood and recycled wood may be used to produce these blocks.

It also showcased the new MDF resination system, which saves up to 40 percent on resin consumption; the new optical lab and on line screens, which are ideal for determining mill wear and screen mesh wear; and the lab formaldehyde tester for determining good quality boards; the new chip cleaner and

Air chips cleaner: "Cleaning tower" concept



*Metakiller*



metal killer to eliminate impurities from wood; and the special Desander, ideal for removing sand and silica from wood, for a better and more lasting quality.

An increasingly popular and important product of the IMAL on line range is the TS100 mat surface sprayer. This system sprays water and/or a release agent onto the mat by centrifugal force. The speed at which the rotors rotate produces a fine mist which falls onto the mat to dampen it. The amount of liquid sprayed is controlled on line and the significant advantages achieved with this application include a better density profile, smoother board surface but above all, an increase in production as the heat penetrates more rapidly into the core of the mat. To date, there are 120 such systems installed around the world.

Another exceptional product belonging to the range of on line quality controls for MDF production, is the newly designed CDP density profile metre, which can provide the density profile of the board on line at press outfeed for boards as thin as 3 mm, without any contact with the examined material and without damaging production. By means of a microprocessor device and application of the most advanced X-ray measurement techniques, it is possible to obtain a rapid and highly accurate density profile of the material.

Lastly, the safety control equipment range, along with the SDS (spark detection and extinguishing system), has been completed with the innovative APX cyclone anti-plugging device. This system has been designed to prevent cyclone plugging, one of the major causes of production downtimes. Unlike traditional systems, the device does not require cleaning or maintenance and is unaffected by dust, moisture, temperature, noise or vibration.

IMAL's unquestioned leadership in



*Gas analyser*

the manufacture of on-line thickness gauges and board quality control equipment is strengthened by the IMAL Research & Development team upgrades, designed in conjunction with the on-field experience acquired in a variety of applications installed worldwide. IMAL-PAL's policy to annually invest 4 percent of its turnover in research and development, a division where ten full-time engineers collaborate in close conjunction with the Modena, Bologna and Parma University Research laboratories, has enabled the group to retain its reputation as avant-garde manufacturers and leaders in this industrial sector. **PFA**



*Fiber blender*