



BL100



BC200

• PB • OSB • MDF • PLYWOOD • LVL



BLISTER CLASSIFIER

WINBLISTER

BLISTER AND DELAMINATION DETECTION SYSTEM

The IMAL WINBLISTER system has been designed for the on-line detection of flaws or imperfections which may occur in wood-based panels (particleboard, OSB, MDF, Plywood and LVL) such as unglued areas, blistered or blown areas, bubbles, cracks, etc.

The system consists of a sturdy tubular steel beam; the fully detachable structure installs around the board roller conveyor at press or sander outlet, and comes complete with the electrical and pneumatic plant. An electric box, housing the microprocessor, is mounted on the side of the assembly, whereas the PC, monitor and printer are normally located in the control room. The particular functioning principle of the system (ultrasonic impulses) avoids any direct contact with the board as well as eliminating all the usual problems related to material wear.

The Winblister system is available in two versions, the BL100 version and the BC200 version. The standard BL100 model is able to detect bubbles and blisters and the board is represented in 4 colours. It is ideal for plywood lines and/or nonetheless meets the industry's requirements without having to make a major investment.

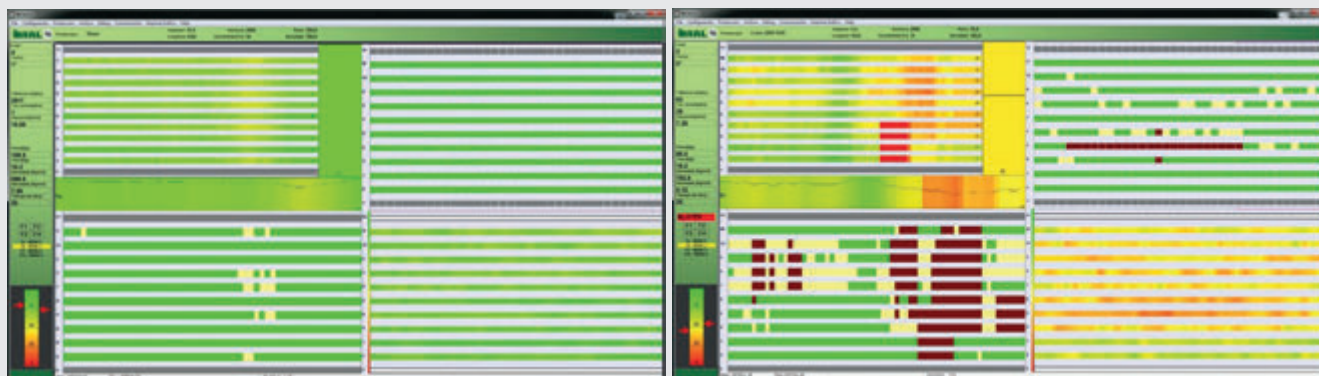
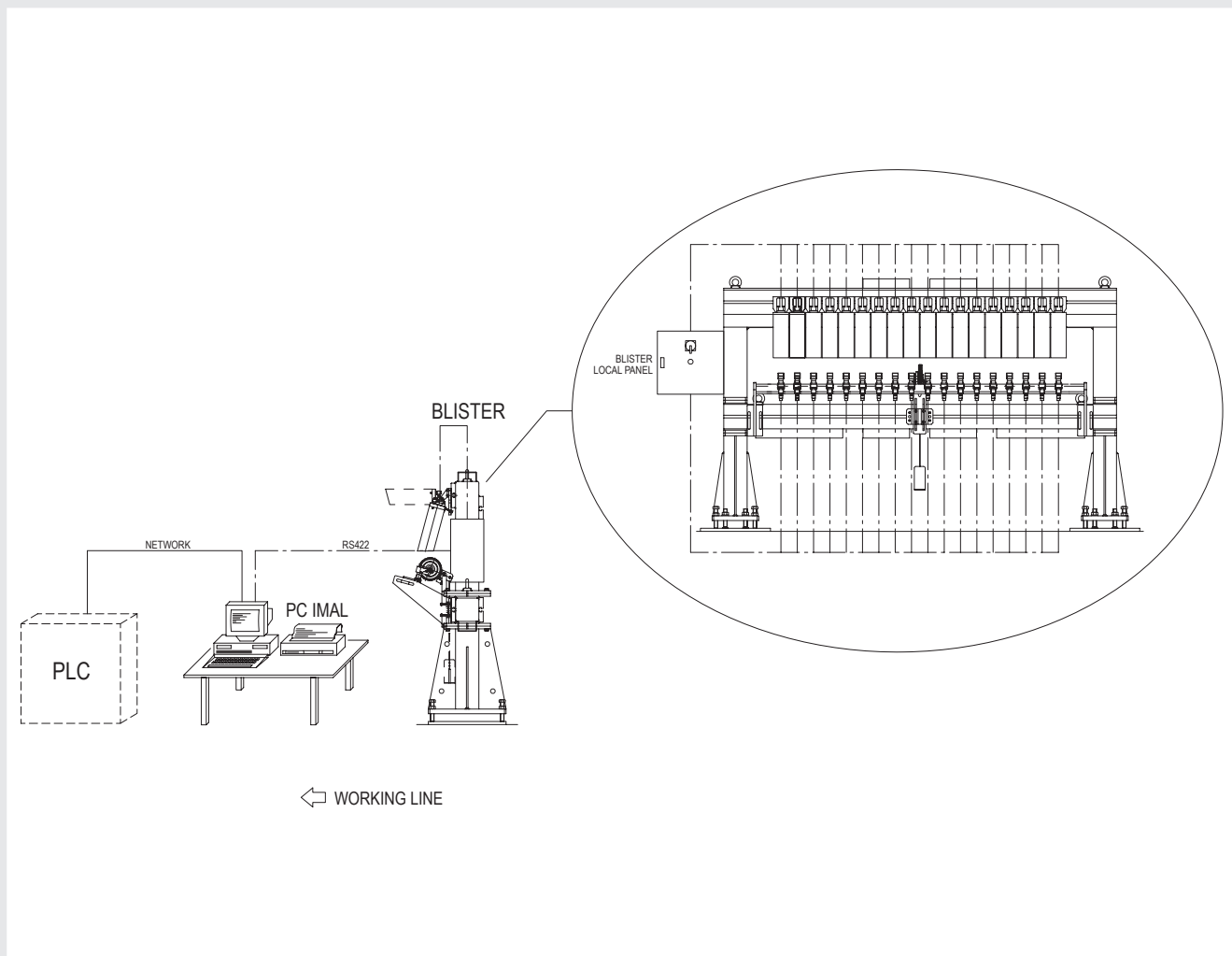
In addition to the standard blister detecting capacity, the BC200 model represents the board in 256 colours and hence is able to perform an analysis of the internal bond. This version may also be installed for monitoring boards as thick as 120 mm.

MAIN FEATURES

- Sturdy mechanical assembly of the structure and of the sensors in particular
- A correct measurement is made without contact with the board
- Diagnostics and control of the system's operating status
- Fast measuring speed
- An efficient pneumatic system ensures that the transmitters are kept clean, reducing maintenance
- Incorporated database to store the measurement reports, for statistical analysis and graph printouts
- Numerous graphs available such as: blister position on board, production trend blisters, opening trend, board quality trends
- Network linking possible with TCP/IP protocol, for Siemens S5/S7 and Allen-Bradley ControlLogix
- Available in most of the languages commonly spoken around the world today.

ADVANTAGES

- Repeatability, reliability, comprehensive and accurate measurement
- Improved production quality
- On-line visualization of the production process
- Quick and easy to install
- Little maintenance required.



TECHNICAL DATA	
MAX BOARD THICKNESS	50 mm (120 mm optional)
MAX LINE SPEED	210 m/min (can be accelerated during the measurement)
CHANNEL WIDTH	35 mm
MIN CHANNEL SPACING	(Centerline to centerline) 100 mm
NUMBER OF SENSORS	2 ÷ 32
MAX BOARD TEMPERATURE	130 °C
MAX OPERATING TEMPERATURE	50 °C
CLEANING SYSTEM	Automatic after each board, with compressed air

OUTPUT ALARMS FOR	
BLISTER LENGTH	From 10 mm up to the full length of the board (programmable)
BLISTER WIDTH	Min in relation to the distance between sensors
SINGLE BLISTER	Total surface (programmable)
PERCENTAGE	Of defective area on the full board (programmable)

These alarms are either available immediately or at the end of the board, and may be paralleled for global alarms, automatic reject or used on each channel for markers, automatic controls etc.