

TAGLIABUE

Sanding machine provides a distress-unit

The latest option and enlargement of the contemporary Tagliabue range is a "distress" unit for the treatment of antique design parquet. Using this method, waste or second grade material can be upgraded to a high price product. The "distress" unit is installed into a sander or a brushing machine with grain washing material brushes.

The Italian company Tagliabue has been manufacturing sanding technologies for flooring production since 1943. State-of-the-art sanding and calibrating machines are supplied to more than a hundred hardwood and engineered flooring producers around the world, among them marketleading companies in North America and Asia.

Tagliabue offers a broad product range including bottom and top calibrating lines, in-line and intermediate-sanders. The working widths are 1,350 and 1,700mm. The machines are designed for best performance in around-the-clock use. Modern calibrating machines which were recently delivered to a North American producer feature a line speed of up to 70 m/min and a working width of 1,700mm. They were designed to prepare plywood for the final finishing line.

Machines for intermediate and final lacquer sanding are delivered in a drum/pad configuration for longer sanding belt lives and continuous high quality sanding results.

GRECON, GERMANY

Laminate surface inspection system Superscan

Objective surface quality control of decor and raw panels can hardly be achieved with the human eye. In the production of decor panels, many different causes can lead to unsatisfactory results in the panels' surface quality.

Misalignments, occlusions, dirt and even the quality of both the raw panel and the paper can be responsible. With ever increasing production speed and new pressing techniques, the application of the decor paper onto the carrier

panel, in the desired position and optic, can only be monitored by a computer aided system.

'Superscan' from GreCon is such a camera inspection system able to completely monitor the produced panels for defects at full production speeds. It is possible, with this method, to inspect the surfaces of press-size panels independent of the decor. Superscan's main field of application is the inspection of decorative wood based panels, such as laminate flooring, furniture panels, lacquered or printed panels.

Superscan is virtually self-learning and easy to operate. With new decors, only two panels have to be scanned. Then a master record is generated from the scanned data taking pre-selected tolerance limits into consideration. Any following panels are compared to this master record.

Defective areas are marked on the under side of the inspected press-size panel - taking into allowance the cuts to be performed later. Sensors, that are installed after the cutting station, recognise the colour markings and activate a sorting station that sorts out the defective cut panels.

In accordance with customers' requirements, GreCon supplies four modules which include a cleaning module, for reliably removing loose paper chips and dirt from the panel surface; the basic module for the recognition of surface defects and also a gloss module and a UV module. The gloss module is able to detect topographic surface defects and to monitor the structure of the die at the same time. The UV module is specialised in the detection of overlay faults. By combining the modules, customers' individual requirements can be optimally served.

HYMMEN, GERMANY

The first Short Cycle Press Plant

During a recent two-day symposium at its Bielefeld headquarters, Hymmen, the German manufacturer of presses, lamination plants and printing lines, presented the first complete Short Cycle Press Plant to an audience of industry professionals. The launch comes as a follow-up to the range of Double Belt Presses, Lamination Plants and last year's introduction, the Direct Printing Line.

The new technology was developed together with the experts at Hymmen EMC Pressentechnik, Hamm (the former employees of Becker & van Hüllen). Their long standing experience in the areas of engineering, manufacturing and the installation of press projects has added to Hymmen's technological lead.

The Short Cycle Press, which can be used for both flooring and furniture production, features some remarkable technical characteristics:

The design of the press system is based on 180-220 pressing cycles/h and a top piston press with max. 35 bar pressure. The heating plates, with a size of 2,200 x 5,800mm, are synchronised by a hydraulic system. An industrial property right is pending on a newly developed special film turning system with high positioning accuracy. The Hymmen delivery includes automatic high rack storage with interface with the customer's production planning system.

The press infeed and outfeed system is completely equipped with



Superscan provides a surface quality, camera controlled inspection system for raw and decor panels.