

THE SMARTEST WAY TO
PACK BOARD
IS TO CROSS-WRAP IT



PLYWOOD | VENEERS | MDF | OSB

CROSS  **WRAP**[®]
WRAPPING THE WORLD

ALL SIDES CONSIDERED

CW BOARD PACKAGING LINES.

ALL-WEATHER PROTECTION. DURABLE
HANDLING, STORAGE AND TRANSPORTATION.
RECYCLABLE PACKING MATERIAL.

The fully automatic CW Board Packaging Machine is designed to pack boards by using an efficient system that improves safety and provides a functional packaging. The high-quality packages are durable to handle, storage and transport even in the toughest weather conditions.

Valuable products with good looking packages attract customers. The machine closes board packages tightly from all six sides using stretch film and bottom skids. The

labelling gives the final visual image, helps the operators to handle and recognize the packages in further processes. No straps, covers or bottom pallets are needed.

Electrically operated machine is an efficient all-in-one solution for industrial packaging needs. It suits well for any boards such as plywood, veneers, MDF, OSB, plasterboards, doors, fibrecement boards, particleboards and many more!



MORE PRODUCTION – Crosswrapping saves cost, time and trouble. Automatic packaging reduces labour cost and provides more production with less maintenance cost.



STRONG PACKAGE – Valuable products are protected from all six sides. Packages are convenient and safe to move around.



WEATHERPROOF – Crosswrapping seals packages and ensures moisture and all-weather protection for the content and the label.



ONE LINE FOR VARIOUS PACKAGES – Various board materials and package sizes can be wrapped on a same packaging line. Optional automatic bottom skid feeder and package labeling ensure versatile production possibilities.



COST EFFICIENT AND ENVIRONMENTAL FRIENDLY – Only recyclable packaging materials, stretch film and bottom skids are needed to pack high-quality products.



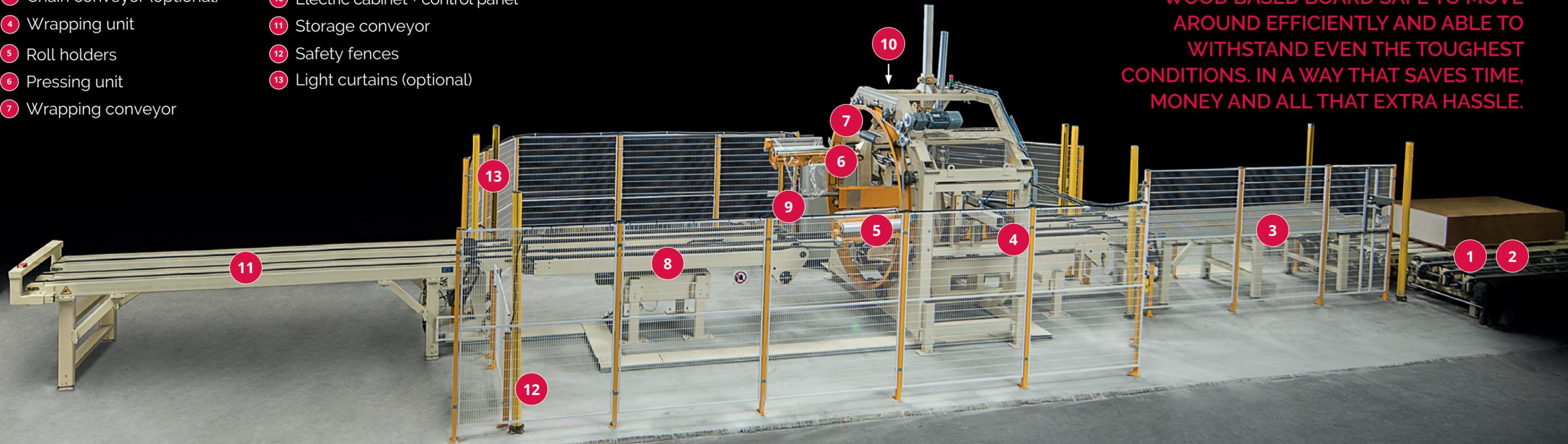
FLEXIBILITY – Three different wrapping programs for different packaging needs give flexibility to production.



CW BOARD PACKAGING LINE

- 1 Lifting table (optional)
- 2 Crossing station (optional)
- 3 Chain conveyor (optional)
- 4 Wrapping unit
- 5 Roll holders
- 6 Pressing unit
- 7 Wrapping conveyor
- 8 Rotating table
- 9 Seaming units
- 10 Electric cabinet + control panel
- 11 Storage conveyor
- 12 Safety fences
- 13 Light curtains (optional)

A FULLY AUTOMATIC PACKAGING MACHINE THAT MAKES ANY WOOD BASED BOARD SAFE TO MOVE AROUND EFFICIENTLY AND ABLE TO WITHSTAND EVEN THE TOUGHEST CONDITIONS. IN A WAY THAT SAVES TIME, MONEY AND ALL THAT EXTRA HASSLE.



1 LIFTING TABLE (Optional)

Lifting table lifts the board stack to the wrapping level from the existing production line. Lifting table can be equipped with a chain or roll conveyor or crossing station.

2 CROSSING STATION (Optional)

Crossing station turns the package to the correct wrapping direction without modifications to the already existing conveyors. Can be equipped with rubber covered chains to prevent damages to the board stack.

3 CHAIN CONVEYOR (Optional)

Chain conveyor before the wrapping unit increases production with its buffering feature. The amount and dimensions of conveyor can vary according to package size and production volume. The conveyor can be equipped with rubber covered chains to prevent damages to the board stack. Heavy duty chain conveyor with

smooth start & stop feature lowers maintenance costs and gives longer lifetime.

Optional features:

- Offline feeding allows board stacks to be fed from different sources and gives flexibility to production
- Semi-automatic bottom skid feeding for smaller capacities or limited facilities

4 WRAPPING UNIT

Enables automatic and efficient packaging for different board stack sizes without manual operations. Three main wrapping programs with three crosswise wrapping stages make the package durable and keep the bottom skids in place. No straps are needed, and the film consumption is optimized to the right places.

5 ROLL HOLDERS

The amount of roll holders 1-2 and three

stretching options offer fast and economical wrapping. The amount of roll holders depends on production volume. Stretching alternatives optimize the strength of the package and film consumption according to customer needs. Film roll change from floor level improves working safety.

6 PRESSING UNIT

Pressing unit holds the board stack together at the beginning of the wrapping cycle and ensures the stack stays firm and tight during the wrapping process. Especially useful for stacks made of thin materials such as veneer.

7 WRAPPING CONVEYOR

Wrapping conveyor's accurate board stack positioning during the wrapping process ensures efficient packaging. Heavy duty chain conveyor with smooth start & stop feature lowers maintenance cost.

8 ROTATING TABLE

Horizontal wrapping with accurate stack positioning closes the package, strengthens the package sides and optimizes the film consumption to the right places.

9 SEAMING UNITS

At the end of the wrapping cycle, seaming units connect and seam the film to the package. The weather-proof board package is tidy and looks more appealing.

10 ELECTRIC CABINET + CONTROL PANEL

Electric cabinet is equipped with high-quality components and high-resolution Siemens touch screen. Daily operating and parameters changing are user friendly.

Minimum protection class is IP 54, which may vary according to customer needs.

The machine is equipped with Siemens safety logic: reducing extra safety relays and maintenance cost.

Standard communication protocol is Profinet and customizations are made e.g. with Profibus. Flexible integration to factory systems is available as an option.

3G, LAN, WLAN modem allows troubleshooting and program updates to all programmable components via internet. This includes remote controlling, modifying and monitoring. The modem connection minimizes production down times. Web camera is available as an option.

Three different wrapping programs and pass by are available. Customer can adjust the amount of film layers according to the handling and transportation needs.

11 STORAGE CONVEYOR

Heavy duty chain conveyor with smooth start & stop feature moves packages to the storage area. Dimensions can vary according to the package size and production volume. Optional longer storage conveyor gives flexibility for production. Turning or lifting table option is available to fit the wrapping line to the existing production line.

12 SAFETY FENCES

Safety fencing is equipped with interlocked system and transparent impact glass. CW safety fences fulfil the safety regulations and are included to the deliveries according to customer needs.

13 LIGHT CURTAINS (Optional)

Light curtain enables safe connection between wrapping line and the existing production line. Light curtain prevents access into the hazardous areas and human injuries.

AN EFFICIENT ALL-IN-ONE SOLUTION FOR INDUSTRIAL PACKAGING NEEDS



CW Board Packaging Machine is able to pack even 2250 mm wide boards.



Crosswrapping on six sides is a weather and dust resistant solution.



Strong and solid package allows side-ways loading to the container as well.

OPTIONS



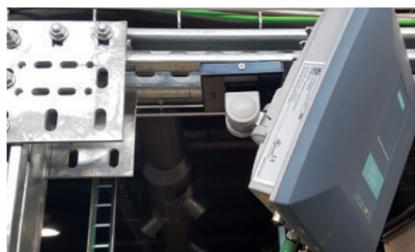
LABELING UNIT

Automatic industrial robot attaches label from printer under the final film layer where it is safe against moisture and dirt. Labeling may include customer logo and package information. Package with detailed visual image is more attractive.



SEMI-AUTOMATIC BOTTOM SKID FEEDING

Lifting unit to lift the board stack for placing bottom skids under the stack. Adjustable for different board stacks and bottom skid sizes.



RFID READER

RFID information included in the package is read with the RFID tag reader and wrapping receipt verified according the RFID data. Specified wrapping receipt is then used to meet packing standards of different customers.



AUTOMATIC BOTTOM SKID FEEDING

The skids are feed automatically under the board stack on the conveyor. The whole wrapping and packaging process is automatic. It reduces labor cost and increases process capacity.

VENEER PRESSING UNIT

When wrapping dry veneer sheets, the veneer pressing unit does press the excessive air out between the veneer sheets before wrapping film is applied over the packs. Veneer pressing unit does give a tighter wrapping result saving also storage space.

WEIGHING UNIT

Weighing data can be monitored from a control panel and transferred to factory's control systems and to labeling unit.

FILM WATCH

Film watch is functioning to pause automation program and to alarm line operator if film breaks or runs out. Ensures that all packages have the same amount of film layers.

ADAPTERS FOR 500mm FILM ROLLS

If the machine is equipped with the roll holders for 750mm stretch film, there are adapters available to enable the use of 500mm wide stretch film rolls.

REMOTE CONTROL

Allows operating the packing line remotely, for example from a vehicle/forklift. This gives more time for production.

"IT'S JUST LOGISTICS!"



WRAP. SHIP. SAVE.

CW BOARD PACKAGING MACHINES

450 MACHINES | 55 COUNTRIES

The Cross Wrap's product range meets safety requirements of the industry and the manufacturing process is supervised under the certified quality system ISO9001.

The Cross Wrap Ltd operates in designing, manufacturing and installing packaging lines for board industry. Our CW Board Packaging lines are suitable for any boards such as plywood, veneer, MDF and OSB and many more. We are the world wide leaders in manufacturing bale wrappers to pack various waste materials and recyclables for transport and storage. Our CW bale openers and dewiring machines are available to open the bales when materials need to be utilized.

