



LEDINEK - ENGINEERED TIMBER - STANDARD CROSS LAMINATED TIMBER PLANT IN PORTUGAL

Standard CLT production facility in Portugal

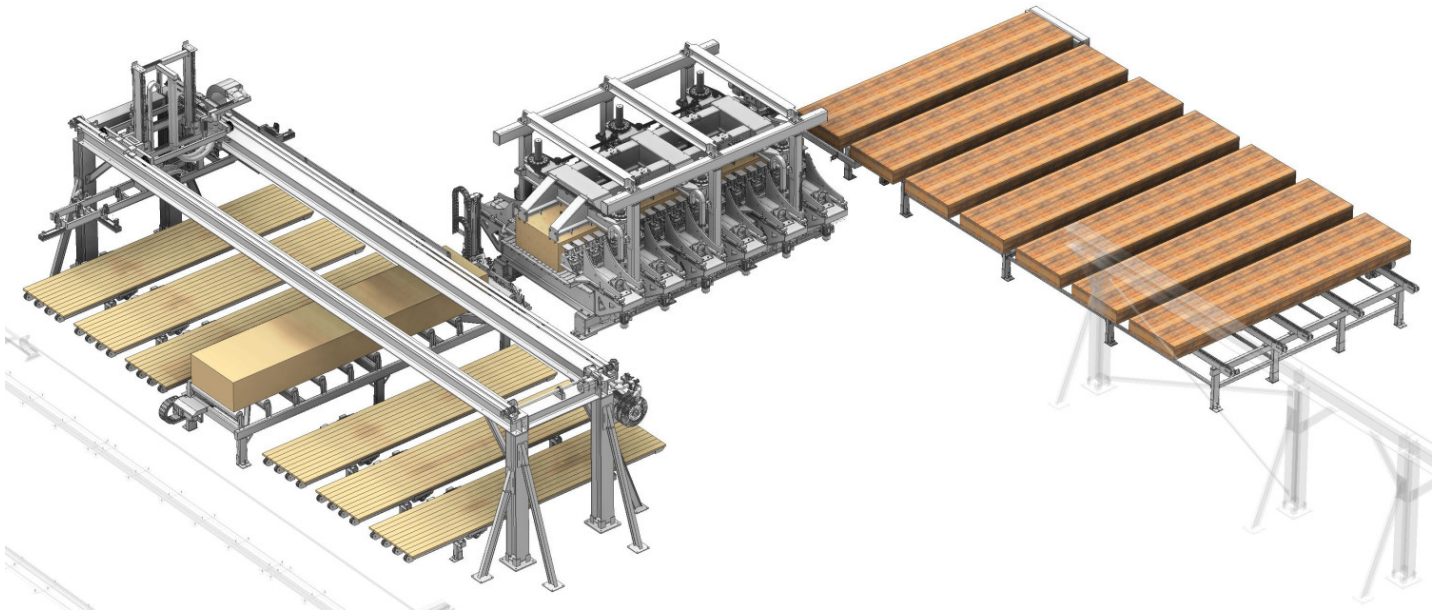
The company **Arolla Lda** invested in a plant for the production of standard CLT elements with widths of 120 and 125 cm and produces mainly for its own projects and for the local market. Arolla specializes in the construction of ready-to-move solid wood buildings, the implementation of the projects is supported by the integrated architecture and engineering office. The raw material required is supplied by local sawmills, but also imported from Europe.

The production facility was integrated into an existing building in the Setubal industrial area. The hall with an area of a little more than 11.000 m² was modernized within a very short time and adapted to the specified production conditions. The format of the cross laminated timber elements is optimized to a maximum of 16 m x 1.25 m x 0.6 m. A CNC machining center is also installed in the fully automated production process in order to process finished pressed and pre-profiled CLT elements. This first turnkey CLT line in Portugal specializes in the production of high quality CLT with visible surfaces.

The entire CLT production system is controlled and monitored by the **X-Lam Manager** developed by Ledinek. The X-Lam Manager offers a PC-based host computer system for production management, production flow control and visualization, statistics, instant information and tools for production analysis

Company: **Arolla Lda, 1200-203 Lisboa**
Facebook: **Arolla Facebook**

Production site: Mojidad – Parque Logistico / Setubal / Portugal
Project management: Dr. Gerd Jakob, DI Hans-Georg Unterrainer, DI Richard Santner
Production staff: 20
Wood species: Pine, Spruce, Larch
Machine operator: 6 + 2
Production capacity: 50.000 m³ / Year



Turnkey CLT production

1. Tilt hoist for de-stacking of timber
2. Infeed to MULTIPLAN 4V-S200 pre-planer for high speed and perfect finish
3. Hot-melt edge gluing Z-PRESS for fast assembly bonding of solid wood laminations.
4. Multiple saw unit for cutting the edge-glued panels into several cross layers
5. Vacuum layer assembly unit for Cross and Longitudinal Layers with 90° rotation
6. Distribution shuttle to load 2 x 6 buffer spaces
7. Buffer places for cross layers and longitudinal layers in different qualities and strengths
8. Distribution shuttle to load 2 x 3 production buffer locations
9. Vacuum stacker for the longitudinal and cross layers
10. XM-Press with PUR glue application. Maximum press dimension 6m length, 2m width and 0.6m press height
11. Buffer spaces for additional curing after the press cycle
12. Vacuum stacking device for transporting raw CLT panels
13. SUPERLES 1300 6V + 4F Premium high-performance wide planer with an innovative tool system and double sanding unit
14. Mechanization with gentle panel turning station
15. Gluing of the large finger joint with press for the joint to produce multiple lengths of up to 16 m
16. Crosscut saw with adjustable stop

Facts

- Up to 16 m x 1,25 m x 0,6 m panel size
- Production capacity up to 50.000 m³/year
- 100 m³ Shift production
- Z-Press for innovative, safe and reliable production
- PUR 1K glue with cold setting
- High flexibility of the CLT production process

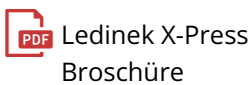
Photo gallery



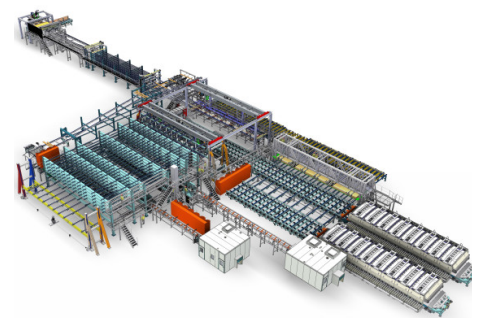
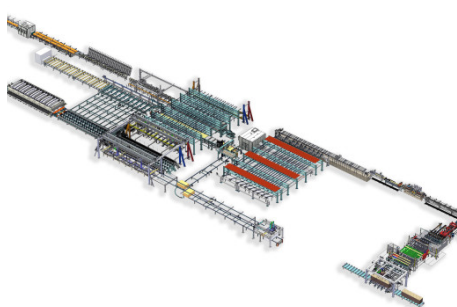
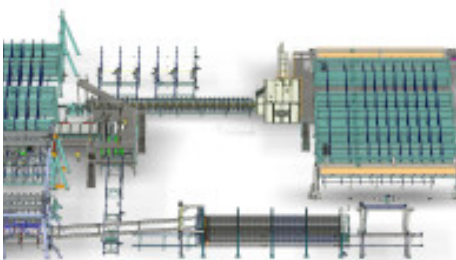
XM-Press loading

XM-Press open and unload

XM Press animation



Related products



► Cross laminated timber plant at Ante in Germany

Another company in the Central European timber industry sets

► CLT production line in Canada

Element5 has invested in a large-scale facility to expand its mass timber production capacity. The company's new facility will

► CLT line in Germany

The company Binder has invested in a new industrial production of BBS XL large format cross-laminated timber panels for its CLT plant in

the course for the future. From now on, the ante Group produces CLT elements for walls and ceilings under the HBS Berga brand.

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produce CLT panels and glulam beams in a range of sizes, offering the market a versatile selection of mass timber products.

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Burgbernheim Germany

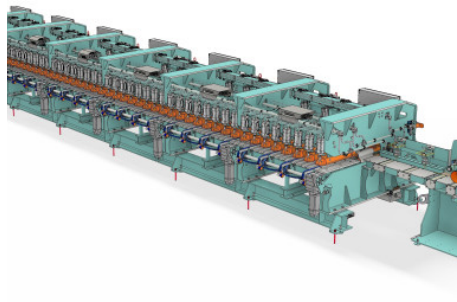
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► XM-Press

Midsize High-performance press (W=2m) press for edge glued panels. Through feed system with plastic chain belt.

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► Z-Press

Edge gluing press with hot-melt for fast assembly bonding of solid wood laminations. Multiple widths or continuous single-layer panels are produced from edge glued laminations. Suitable for the advanced and high capacity CLT production.

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