

EvoL-CLT



*Calibrating & Sanding for
Cross Laminated Timber
Panels*



IMEAS

Features & Benefits

The **EvoL-CLT** series by IMEAS represents the state-of-the-art in calibrating and sanding technology for Cross Laminated Timber (CLT). Specifically engineered for thick structural panels, these machines deliver unmatched precision, surface quality and productivity.

Thanks to the combination of offset unit configuration, wide machine opening (up to 400 mm), powerful main motors and accurate electronic positioning, **EvoL-CLT** ensures a perfectly smooth and homogeneous surface ready for further processing or direct application.

The advanced HMI with graphical interface, together with our proprietary Full Control System™ (FCS) and Full Control Belt™ (FCB), transforms complex operations into simple, user-friendly activities. Operators can easily manage recipes, monitor belt tracking, and optimize performance at every stage.

With extended abrasive belt lifetime, reduced operational costs and superior reliability, **EvoL-CLT** is the ideal solution for CLT manufacturers aiming to increase quality while maximizing throughput.



CLT SANDING LINE WITH CROSS SANDER



EVOL-CLT 2M-A/360, OFFSET TOP/BOTTOM SANDER

CONCEPTS

Configurations: Available in top/bottom or top-only and bottom-only versions, with working widths up to 3600 mm (12 feet), **EvoL-CLT** offers the flexibility required by modern CLT production lines.

Calibrating drum: Large diameter steel rolls, precision-ground and engineered to minimize bending, maintain thickness tolerances at optimal values over time.

Sanding platens: Developed in cooperation with top suppliers, these platens guarantee a consistent and premium finish across the panel surface.

Combined units: contact roll and sanding platens merged together to calibrate and finish the board in a single operation.

Cross-Belt sander: easy integration for the finishing of panels with crosswise lamellas.

Abrasive belts: Extra-long (4000 mm) abrasive belts ensure extended life, lower maintenance and reduced downtime.

Integration: Each **EvoL-CLT** is equipped with IMEAS' advanced Full Control System™, and Full Control Belt™ systems, meets Industry 4.0 standard and can be seamlessly combined with your ERP or MES system.

Technical Data Sheet

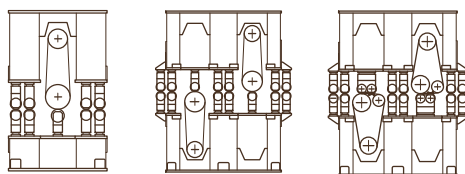
STANDARD FEATURES

- Frames made of electro welded steel, stress relieved, CNC milled, prime-coated and painted.
- High efficiency motors
- PLC Siemens S7 with ProfiNET™ connection
- Wide screen with touch panel graphical interface
- Pneumatic shock-absorption system on top feeding rolls
- Integrated grease lubricating system⁽¹⁾

- On-board pneumatic plant with emergency tank, lockable inlet, manometer and pressure adjustment

OPTIONAL FEATURES⁽²⁾

- Electronic interfacing and self-setting of sanding units
- Sound-proof enclosure cabinet
- On board vibrations monitoring system
- PLC Allen-Bradley



EVOL-CLT C-T

EVOL-CLT 2C-A

EVOL-CLT 2M-A

Model ⁽³⁾	EvoL-CLT C-T	EvoL-CLT 2C-A	EvoL-CLT 2M-A
No. of working units	One top calibrating unit	Two offset calibrating units	Two offset, combined calibrating/sanding units
Process type	Calibrating and sanding of CLT panles		
Useful widths	3.200 - 3.600 mm		
Thickness range	5÷400 mm (700 mm available as option)		
Machine opening	410 mm (710 mm available as option)		
Feeding speed	5÷50 m/min		
Main motors	up to 250 kW (calibrating) - 175 kW (combined) - 110 kW (sanding only)		
Abrasive belt length	4.000 mm		
Machine weight	25.000 - 55.000 kg (according to model)		

NOTES

1. Only available on high-speed rotating bearings.
2. Some of these features may be available at extra price.
3. Other models available on requests.

IMEAS spa reserves the right to change any data without notice.