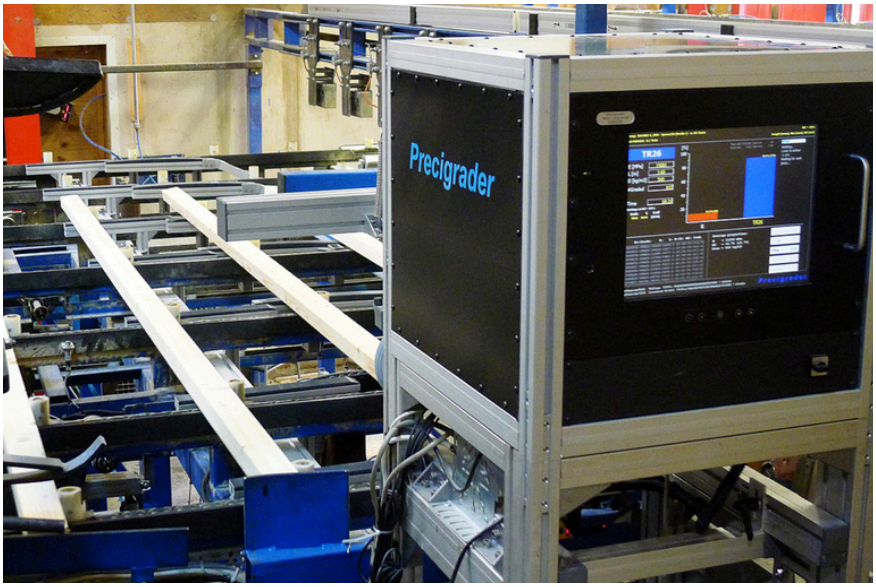
Precigrader

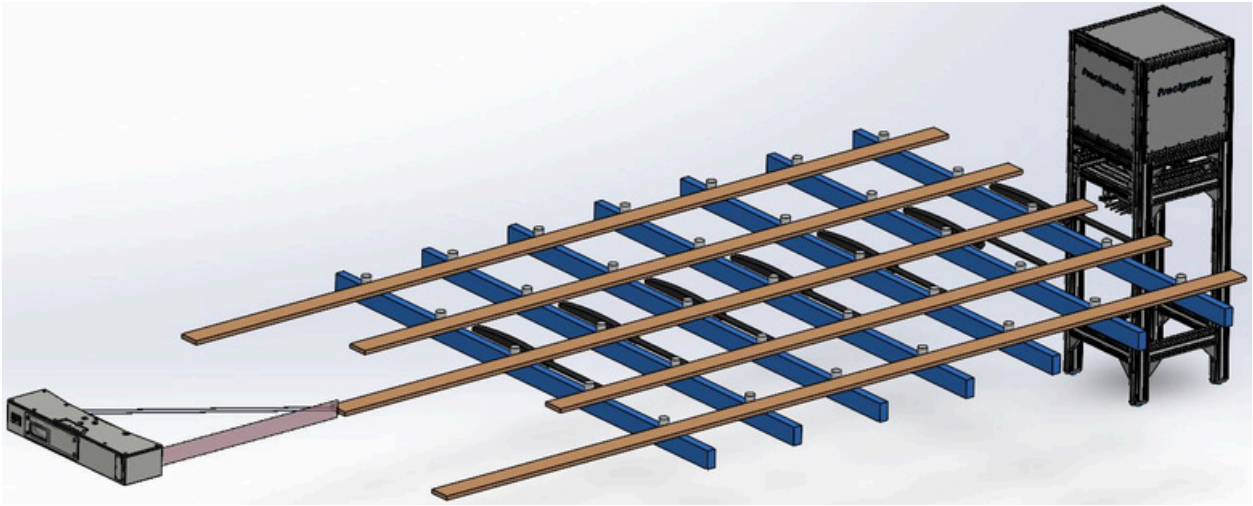
Cost-effective and accurate strength grading of timber



Precigrader sorts wood products according to **EN14081** in **C16, C18,C24, TR26, C30, C35, C40, C45**, grades. This pioneering compact equipment is well proven and gives excellent results at a pace of up to 180+ pieces per minute.

Precigrader combines measurement of vibrations and density in a effective and unique way.
The measurements give a precise estimate of the timber's stiffness and strength. These properties are crucial for the classification on timber.

Precigrader maximises the potential of wood products through precise machine strength grading. The result is efficient sorting with superior precision and high yields.



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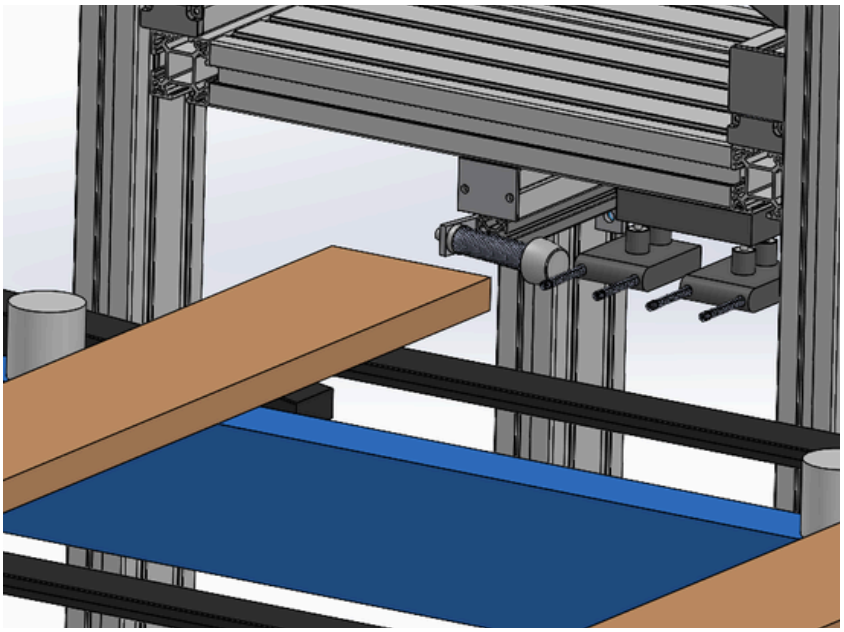
Technical data

These specifications define the mechanical performance parameters and material properties relevant to strength grading. Note that applicable strength-grading standards may impose classification constraints and allowable-use limitations on specific timber products



Specification

- Main unit: 575x600x200 mm
- Positioning unit
- Sliding support units mounted on existing chain beams.
- Unit for measureing density (aluminum construction under the chain beams).
- Reference items for daily process control.
- Option: Laser-based length measurent unit
- Option: Laser-based width and thickness measurement

Timber

- Thickness: 18-150
- Width: 60-300 mm
- Length: 0.9-8.0 m (length interval is 4.8 m when measuring length automatically)
- Green (non-frozen) or dried timber
- Sawn or planed surface
- Clear-cut to angle

Installation requirements

- Indoors
- Space needed: max 0.95 -1.35 m of a cross-conveyor line
- End aligment within 10 mm
- Length measuring device needs to be shielded from direct sunlight/bright light.

Capacity and models

PGEC	PG	PG180
50	100	180+

- Max, pace (piece/min)
- The maximum pace is related to the distance between the pieces and the speed of the chain.

Grading classifications and interface

Precigrader is designed and approved for various standards of structural timber and glulam laminations. Grades, E-modulus and density are delivered as output data for each piece of timber. Precigrader can also enter data via TCP/IP data such as dimension and moisture content. A user friendly interface enables control of the grading process. Statistics are shown on the screen and stored for later on-line processing by the client. Option: Webb-app for reports

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