



Density/weight at high speeds

Densigrader and Weighter are two efficient tools for drying optimization in green sorting lines. They can also be used for dried wood when bulk density is an important factor.

Densigrader outputs the timber bulk density while Weighter delivers the weight only for each passing piece of wood. Both are suitable for lugged transfer lines for all speeds up to 260 lpm. Data Report aggregates the sorting results in Densigrader to a digital report.

Reliable and proven systems

These products were developed from Dynalyse' long experience from strength grading and broad knowledge of efficient measurement systems, sorting and wood standards.

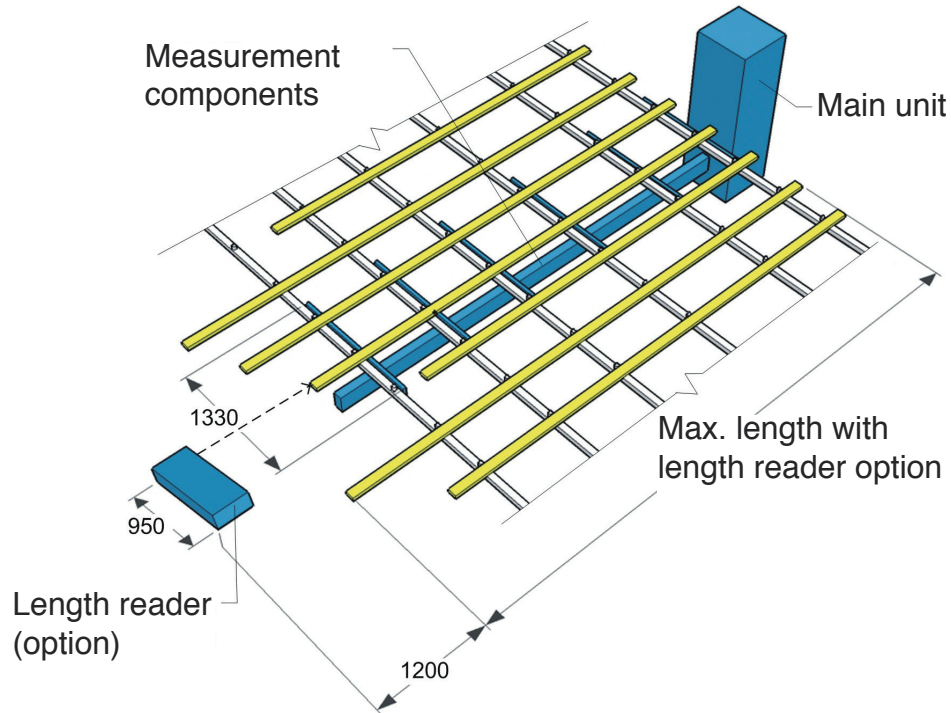
Moisture sorting with Densigrader is reliable and well proven with a robust technical solution.

Key features

- Superior precision in high speeds
- Compact installation in transfer lines
- Easy to use - efficient support
- Accurate sorting up to 260 lpm
- Low maintenance cost- passive components

Technical information

The specifications below are technical performance and properties.



Densigrader - Weighter

Moisture sorting (Densigrader)

Densigrader outputs density for each passing piece of wood. Densigrader can import data via TCP/IP, like size and length. A user friendly interface helps the operator to control the sorting. Density classes and limits can be defined by the user. Statistics are shown on the screen and are stored in the system and on a client's server. Internal relays can be directly connected to control gates or similar to divide a batch into categories. With Densigrader in a green sorting line, inner and outer planks can be separated based on their bulk density depending on actual moisture.

Weight by Weighter

Weighter outputs pure bulk weight per passing piece. The user friendly interface shows each weight of the 10 last few pieces. Each value is sent to a PLC for instance.

Data interface

Densigrader and Weighter use RS232 and TCP/IP. Densigrader also has relays for digital output (high/low).

The passing wood

- Thickness: 18-150 mm
- Width: 60-300 mm
- Length: 0,9-8,0 m
(length interval 4,8 m with length reader option)
- Green or dried wood
- Sawn or planed surface

Installation requirements

- In-doors
- Space: max 95 - 135 cm of a transfer line
- The optional length reader requires direct sunlight or strong light sources be screened.

Specification

- Main unit: 575x600x600 mm
- Pair of plastic supports mounted at each chain
- Measurement beam and components below chains
- Densigrader Option: Laser base length reader
- Densigrader Option: Size measurement
- Densigrader Option: Data report via web-app.

- Max. pace (lugs per min.) 260

Maximum possible pace is related to lug distance and chain speed. Please consult with us at Dynalyse or our rep.