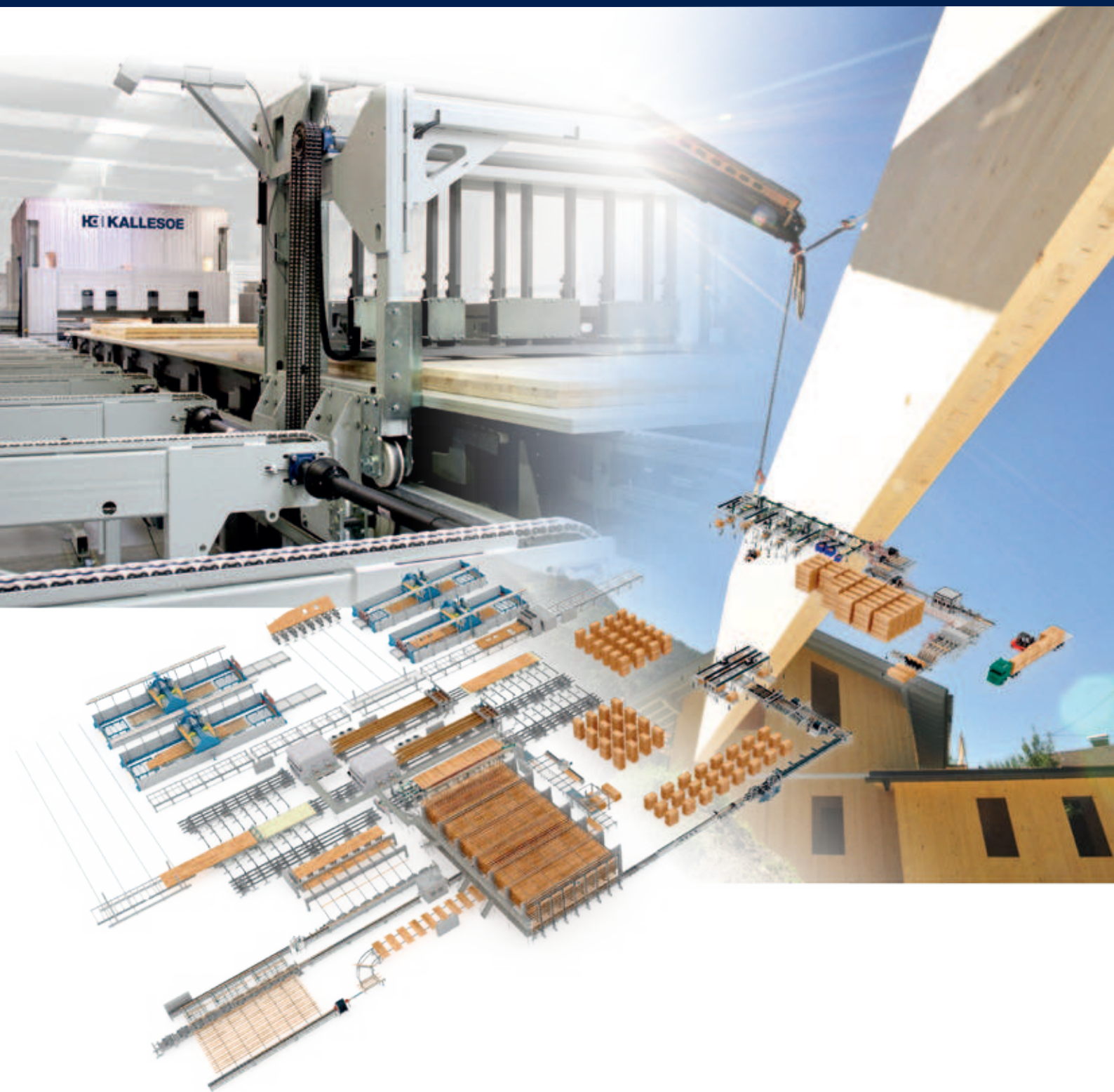


CLT System Solutions



HC | KALLESOE

Project Engineering

Kallesoe is a full-service, engineering, and manufacturing company specializing in the wood industry. We have over 50 years of experience in machine production and customized solutions for our customers all around the world.

We are experts in producing complete lines for CLT-production.

Whether your project involves establishing a new production line, upgrading an existing process, or upscaling your current plant, Kallesoe Machinery has the expertise to produce solutions that are exactly right for the job.

Tailored solutions

We focus on your individual production requirements, and we will make sure that our solution matches your investment and capacity levels.

With the press as the center of the entire solution, Kallesoe plans and composes the production line that is optimum for you.

The solutions will more than meet your requirements for capacity and durability and thanks to the latest advances in technology, your final products will be of the highest quality.

The advantages of a Kallesoe solution

All our solutions are either completely customized or adapted according to our customer's wishes and requirements. The presses utilize our unique radio frequency curing systems, which enable the highest possible level of productivity and flexibility. Various processing machines allow for different finishing procedures after pressing.

The CLT press line solution gives you the optimal output and utilization of the key machines and of the staff operating the line.

To optimize production, Kallesoe Machinery offers the software solution KMS Track&View which manages and monitors the production process while giving you a visualization of the entire solution.

A solution from Kallesoe will always ensure you:

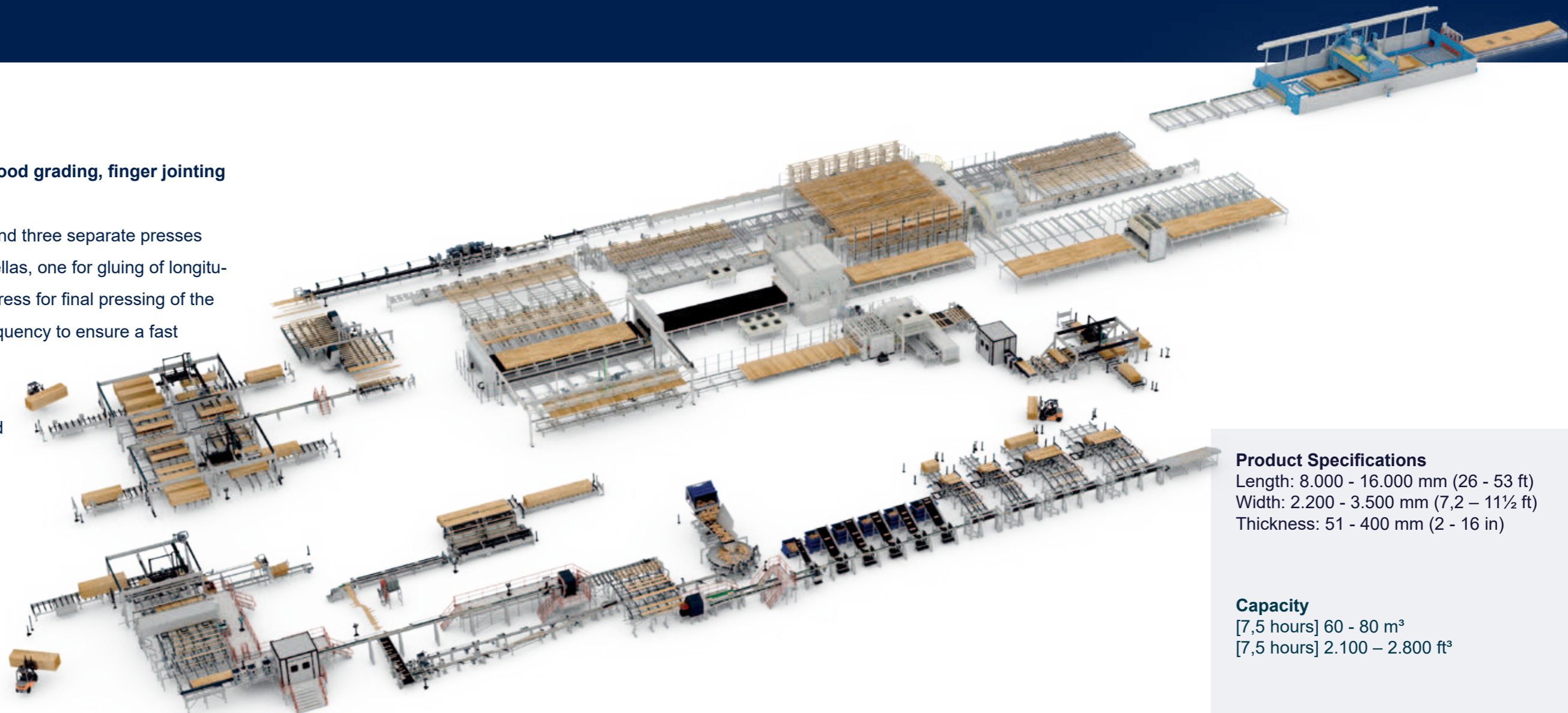
High capacity
High flexibility
High quality

Solution 1

A compact CLT facility with wood grading, finger jointing and press line

This production line is built around three separate presses – one for gluing transverse lamellas, one for gluing of longitudinal lamellas and a solid CLT press for final pressing of the layers. All presses use radio frequency to ensure a fast curing of the glue.

All in all, you get a fully glued CLT panel with this compact and high standard solution.



Product Specifications

Length: 8.000 - 16.000 mm (26 - 53 ft)
Width: 2.200 - 3.500 mm (7,2 – 11½ ft)
Thickness: 51 - 400 mm (2 - 16 in)

Capacity

[7,5 hours] 60 - 80 m³
[7,5 hours] 2.100 – 2.800 ft³

Solution 2

Joined CLT and glulam production lines

With finger jointing serving both lines, you can produce both CLT and Glulam on this solution.

The CLT system can edge glue panels on both longitudinal and transverse layers. This offers a 100% edge and face glued CLT panel.

Product Specifications

CLT

Length: 6.000 – 18.000 mm (20 - 60 ft)

Width: 2.500 - 3.500 mm (8,2 – 11½ ft)

Thickness: 60 - 400 mm (2,4 - 16 in)

Glulam

Length: 6.000 - 18.000 mm (20 - 60 ft)

Height: Max. 1.280 mm (4 ft)

Width: 60 - 290 mm (2,4 - 11,5 in)

Capacity

CLT

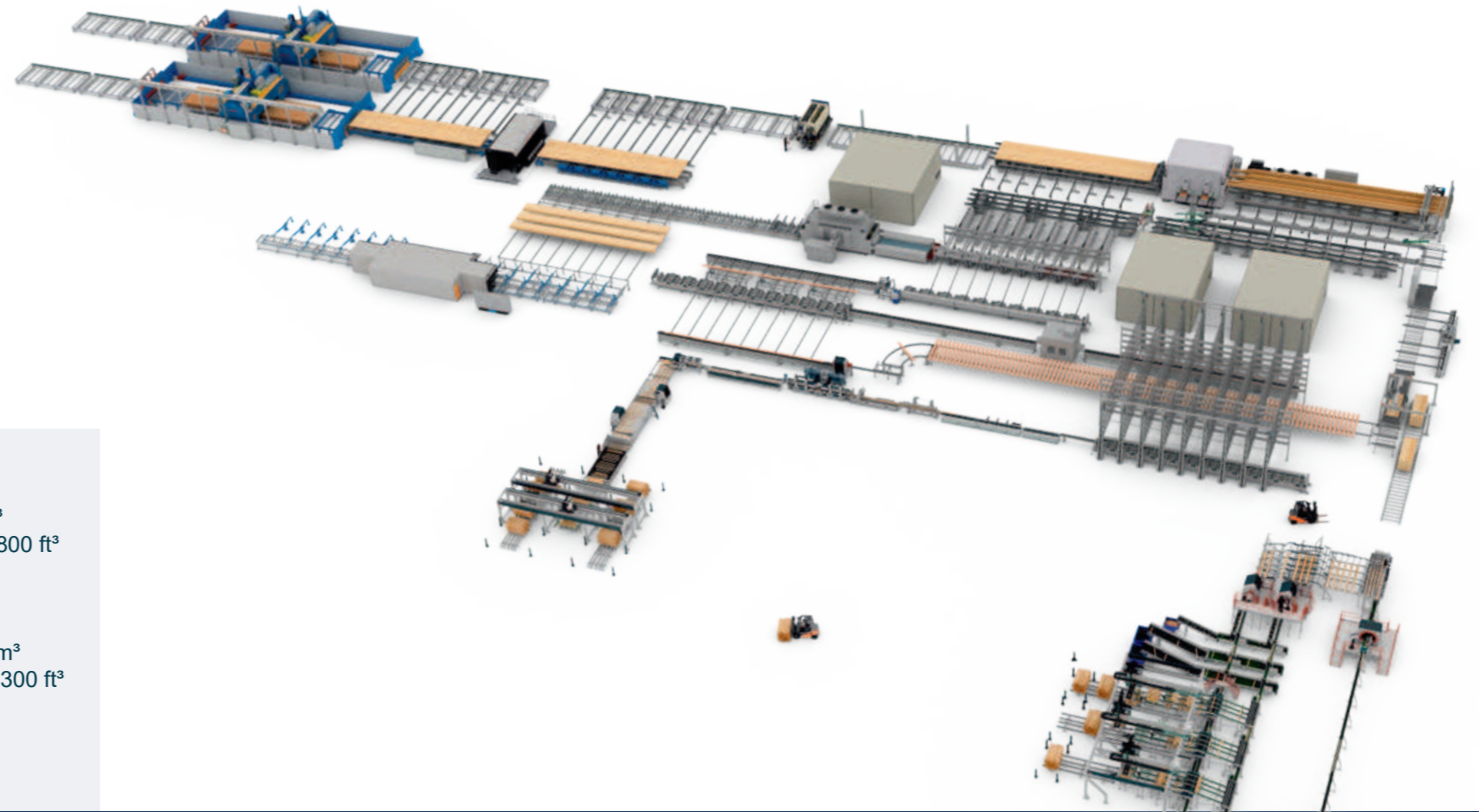
[7,5 hours] 60 - 80 m³

[7,5 hours] 2.100 - 2.800 ft³

Glulam

[7,5 hours] 60 – 180 m³

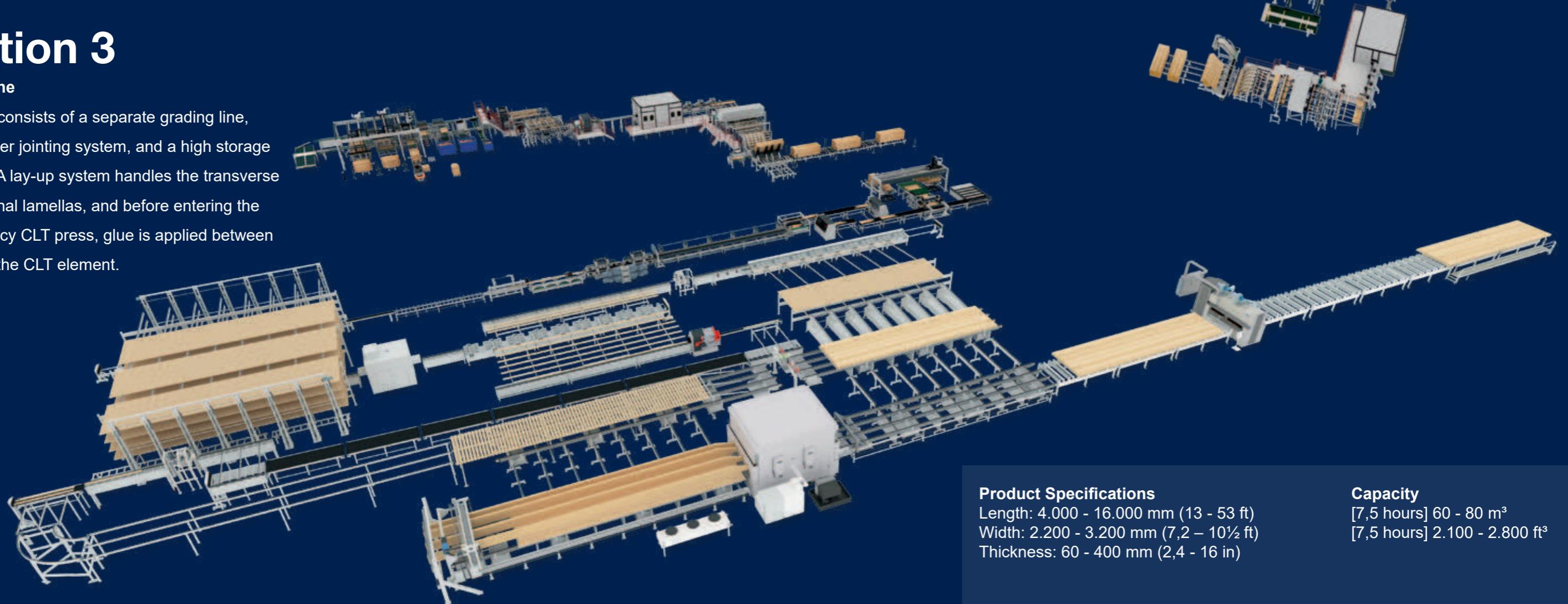
[7,5 hours] 2.100 – 6.300 ft³



Solution 3

Basic CLT line

The solution consists of a separate grading line, a vertical finger jointing system, and a high storage curing deck. A lay-up system handles the transverse and longitudinal lamellas, and before entering the radio frequency CLT press, glue is applied between the layers in the CLT element.



Product Specifications

Length: 4.000 - 16.000 mm (13 - 53 ft)

Width: 2.200 - 3.200 mm (7,2 – 10½ ft)

Thickness: 60 - 400 mm (2,4 - 16 in)

Capacity

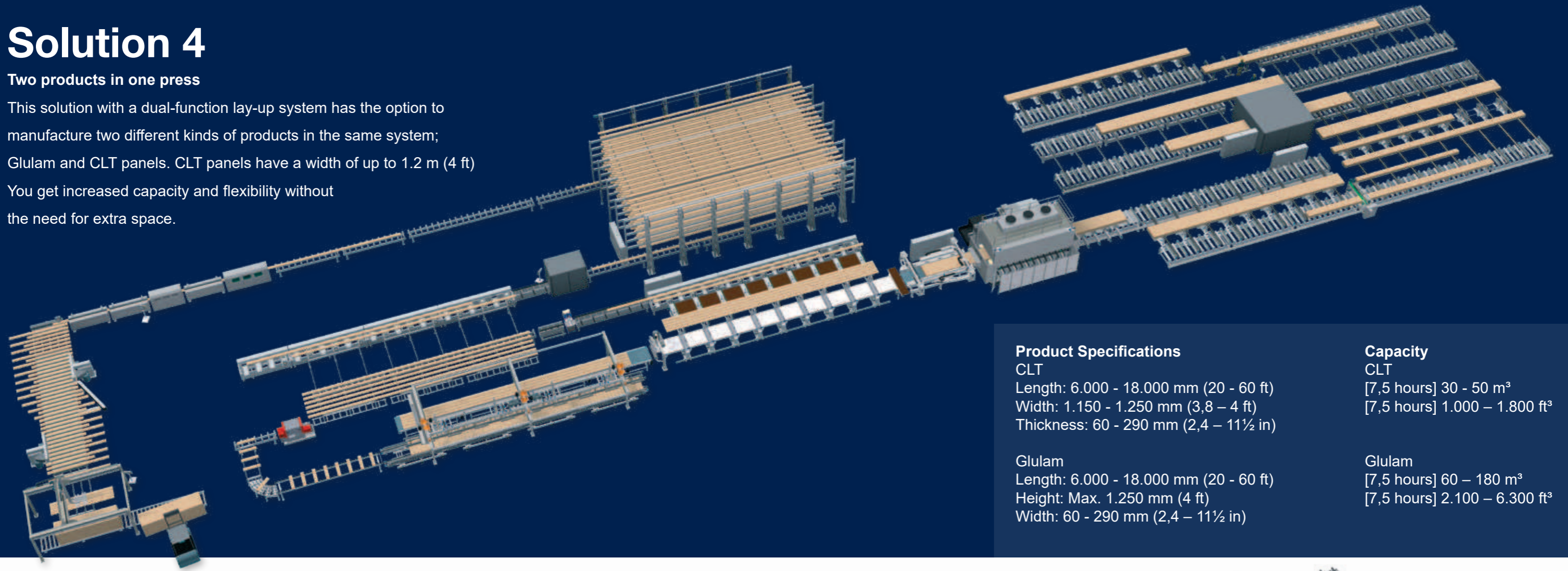
[7,5 hours] 60 - 80 m³

[7,5 hours] 2.100 - 2.800 ft³

Solution 4

Two products in one press

This solution with a dual-function lay-up system has the option to manufacture two different kinds of products in the same system; Glulam and CLT panels. CLT panels have a width of up to 1.2 m (4 ft). You get increased capacity and flexibility without the need for extra space.



Product Specifications

CLT

Length: 6.000 - 18.000 mm (20 - 60 ft)
Width: 1.150 - 1.250 mm (3,8 - 4 ft)
Thickness: 60 - 290 mm (2,4 - 11½ in)

Glulam

Length: 6.000 - 18.000 mm (20 - 60 ft)
Height: Max. 1.250 mm (4 ft)
Width: 60 - 290 mm (2,4 - 11½ in)

Capacity

CLT

[7,5 hours] 30 - 50 m³
[7,5 hours] 1.000 - 1.800 ft³

Glulam

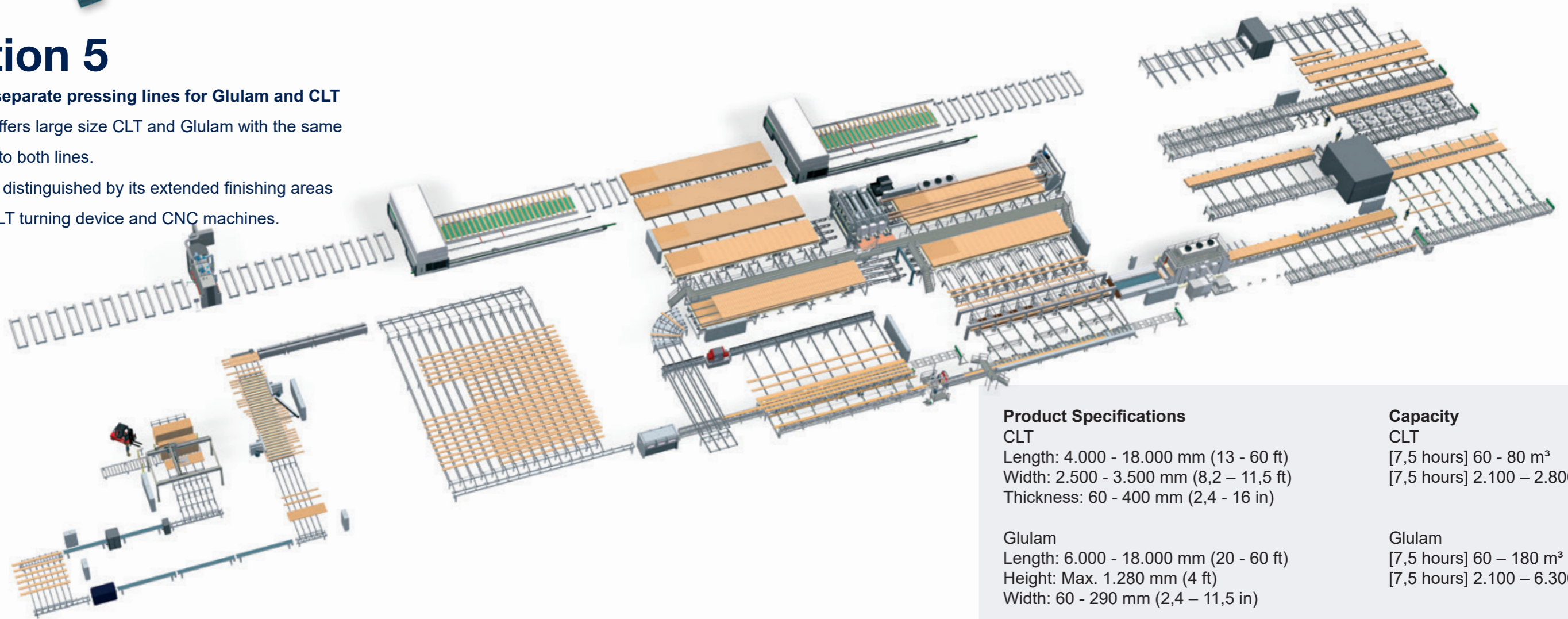
[7,5 hours] 60 - 180 m³
[7,5 hours] 2.100 - 6.300 ft³

Solution 5

System with separate pressing lines for Glulam and CLT

This solution offers large size CLT and Glulam with the same infeed system to both lines.

The solution is distinguished by its extended finishing areas with sander, CLT turning device and CNC machines.



Product Specifications

CLT

Length: 4.000 - 18.000 mm (13 - 60 ft)
Width: 2.500 - 3.500 mm (8,2 - 11,5 ft)
Thickness: 60 - 400 mm (2,4 - 16 in)

Glulam

Length: 6.000 - 18.000 mm (20 - 60 ft)
Height: Max. 1.280 mm (4 ft)
Width: 60 - 290 mm (2,4 - 11,5 in)

Capacity

CLT

[7,5 hours] 60 - 80 m³
[7,5 hours] 2.100 - 2.800 ft³

Glulam

[7,5 hours] 60 - 180 m³
[7,5 hours] 2.100 - 6.300 ft³

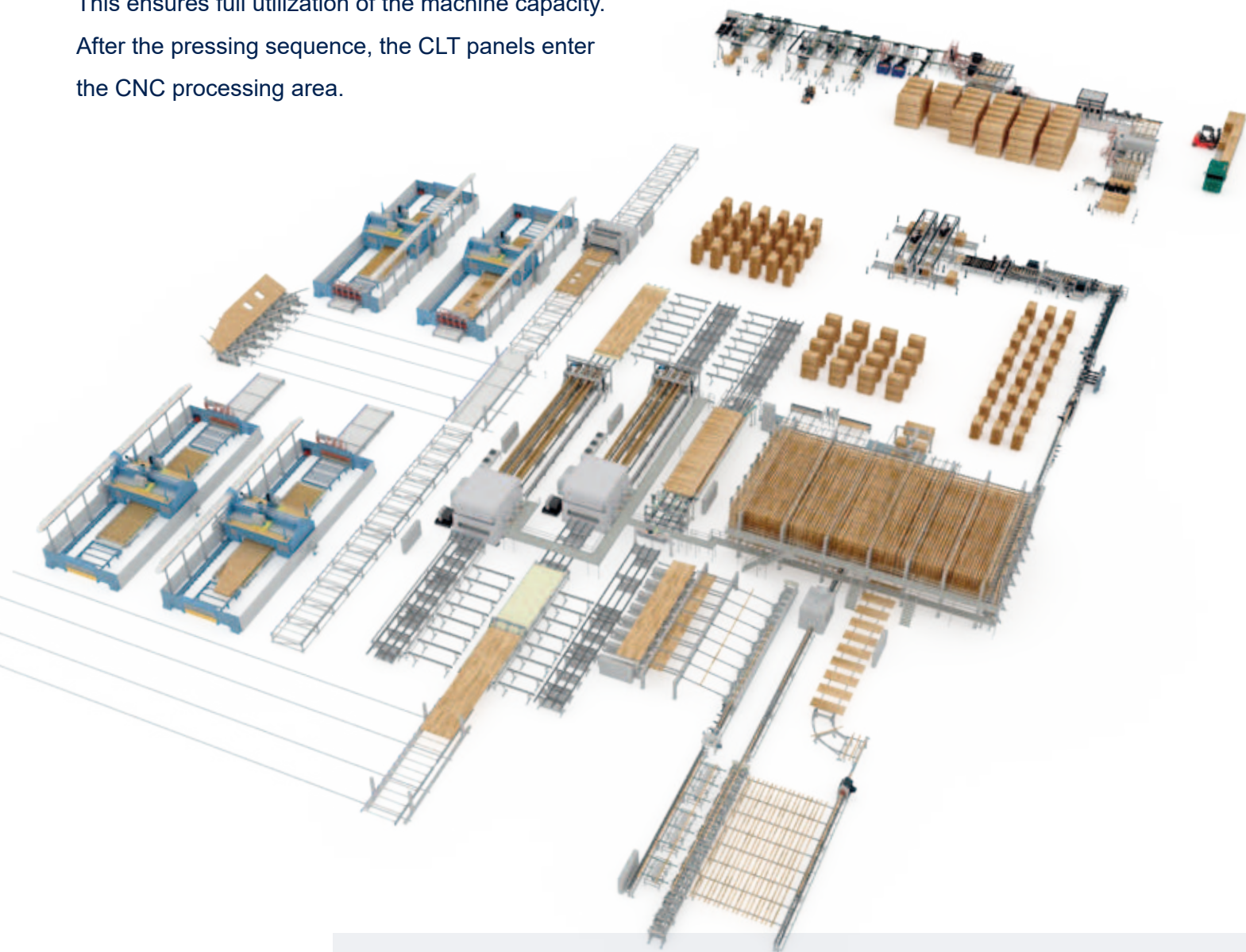
Solution 6

High capacity CLT production solution with two parallel presses

To increase capacity, two radio frequency presses are placed side by side using the same grading, finger jointing and lay-up system.

This ensures full utilization of the machine capacity.

After the pressing sequence, the CLT panels enter the CNC processing area.



Product Specifications

Length: 4.000 - 16.000 mm (13 - 53 ft)
Width: 2.500 - 3.500 mm (8,2 - 11½ ft)
Thickness: 60 - 400 mm (2,4 - 16 in)

Capacity

[7,5 hours] 120 - 160 m³
[7,5 hours] 4.200 - 5.600 ft³

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