

Forestry challenges

Global demand for carbon capture and sustainable fiber is driving the expansion of large-scale forest plantations. This places increasing pressure on nurseries to boost output, maintain quality, and streamline production processes.

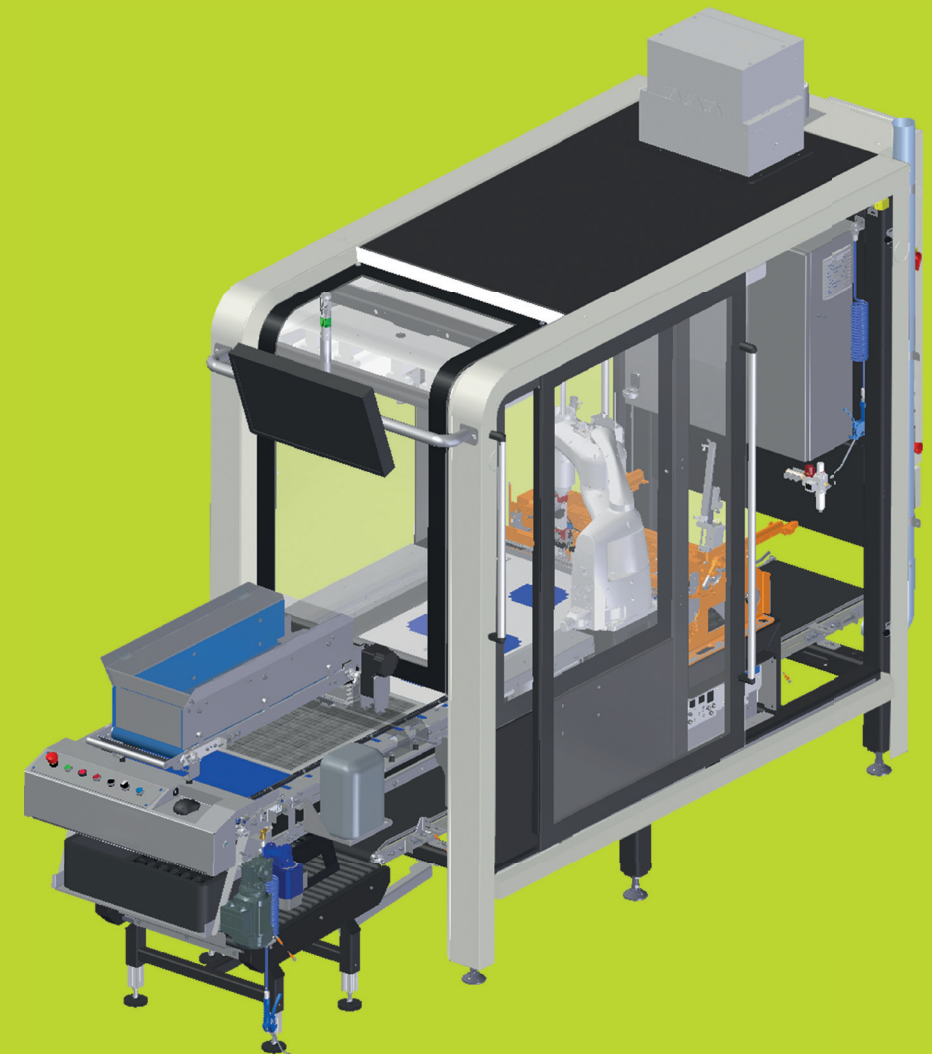
To meet these demands, nurseries often rely on lower-grade seed batches, resulting in reduced germination rates and increased variability in young plants. As a result, advanced automation and precision sorting have become essential.

At TTA-ISO, we provide forestry nurseries with advanced automation solutions tailored for large-scale tree production. Our systems utilize vision technology and robotics to efficiently sort seedlings by quality, automate transplanting, and optimize spacing—ensuring greater uniformity and improved yield, even when dealing with variable seed material.

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TTA ISO



Cutting Planter Eucalyptus

Automatic planting of Eucalyptus cuttings
at 3,200–3,500 per hour with accuracy and speed.

Cutting Planter Eucalyptus

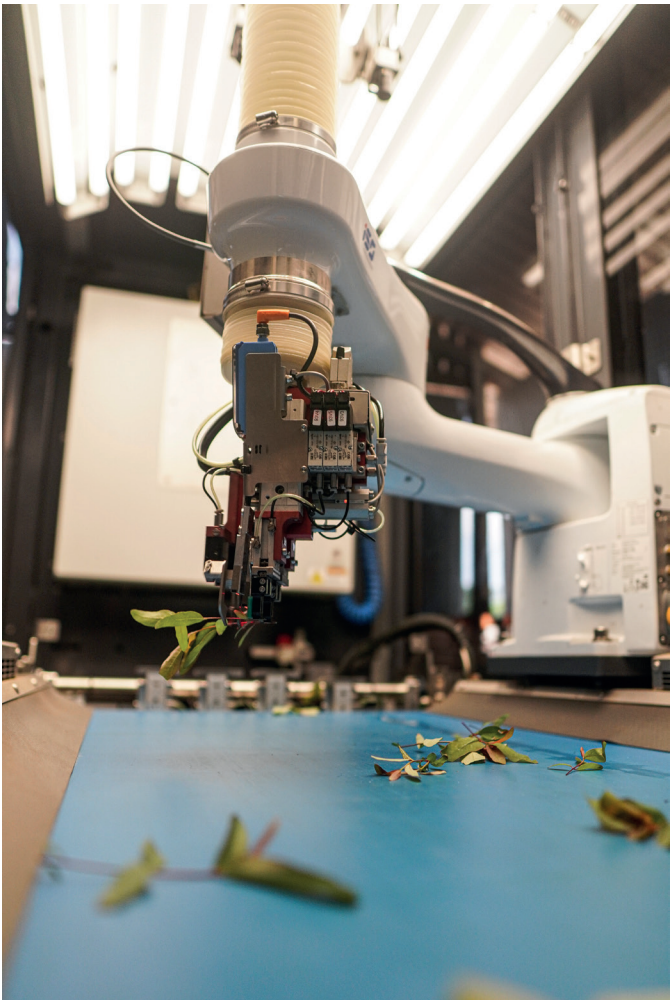
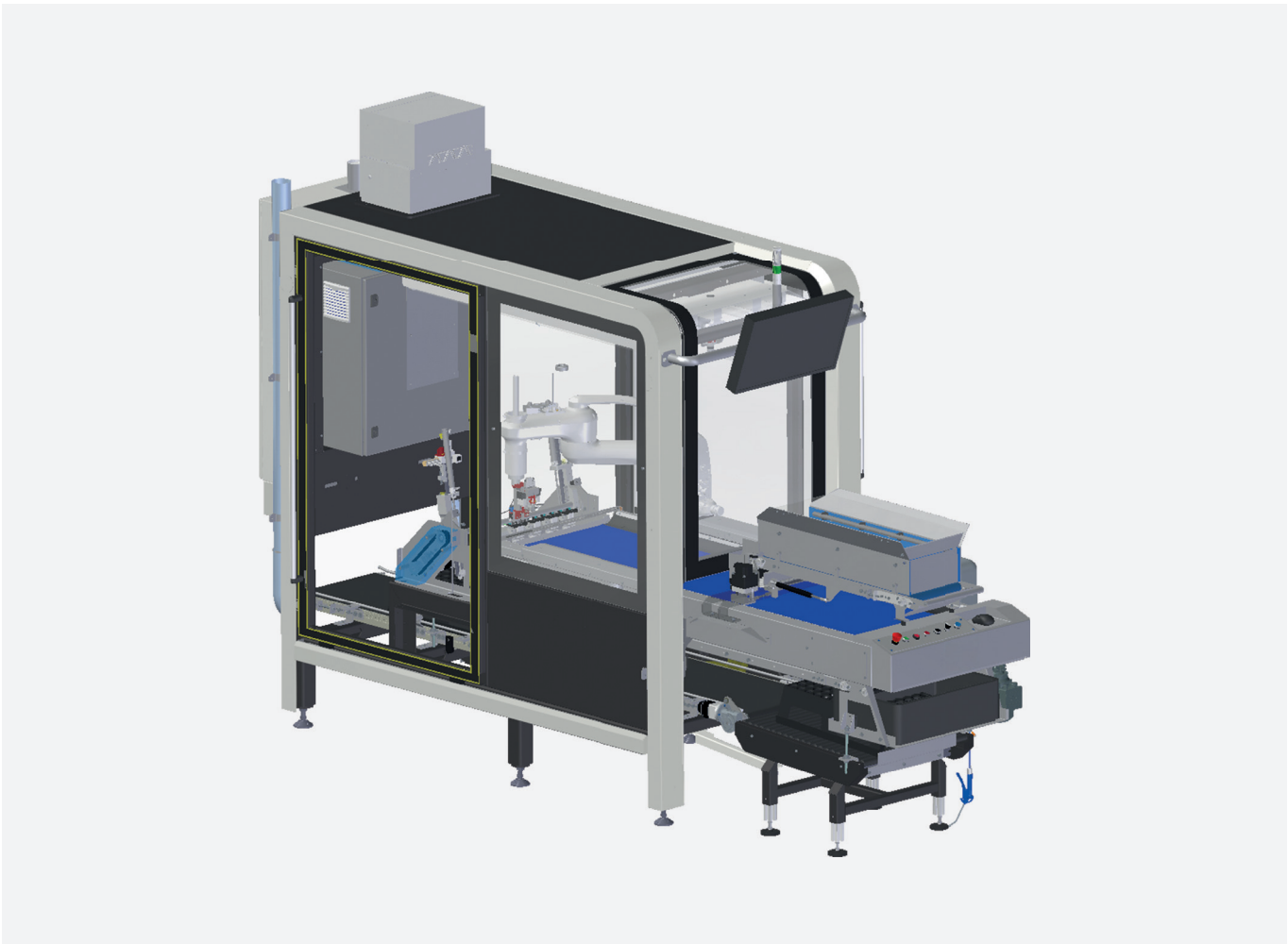
The Cutting Planter Eucalyptus ensures that each cutting is planted uniformly, incredibly fast, and with supreme accuracy.

The Cutting Planter Eucalyptus features a redesigned planting bridge, equipped with advanced components such as a centering unit and tweezer-shaped grippers. This ensures precise stem guidance into the substrate, even for varieties with delicate or fragile stems.

The planting system builds on a proven, time-tested method, now enhanced with the latest innovations. Thanks to a new generation of high-speed cameras with powerful onboard processors, image analysis is executed at lightning-fast speeds. By integrating these technologies with a faster robotic arm (featuring an extended range), a newly designed dual-action gripper, and our advanced AI 2.0 Vision software, which can generate significantly more picking points, we're unlocking a substantially higher net planting capacity.



Get detailed Cutting Planter Eucalyptus insights:



Advantages

- Automatic planting of cuttings
- Intelligent learning system for new products
- Constant high quality of planted cuttings
- Uniformity in planting depth
- Capacity of 3.200 – 3.500 cuttings per hour.
- One operator can operate three machines
- High reliability
- Low maintenance costs

Cutting specifications

- Eucalyptus cuttings
- Stem thickness: 0.2 mm to 2 mm
- Bottom of stem free of leaves, minimum 20 mm
- Minimum total length: 40 mm
- Maximum total length: 120 mm
- Cuttings need to be visible in the top-down view, lying flat on the belt