



Modern Silviculture Webinar 2023
Nelson Mandela University – Forestry Engineering
October 18th 2023
ISO Group - Joep Hendricks

Introduction ISO



We automate difficult and repetitive manual labor in the global food, flower and forestry industries.

- Founded in 2002
- Experts in plant handling, combining robotics, vision and data
- Operating worldwide: 900+ machines operational in 22 countries
- 120+ employees
- Headquarters in the Netherlands; subsidiary in the USA



***“ISO Solutions reduce labour and resources,
uplift product quality and increase profitability”***

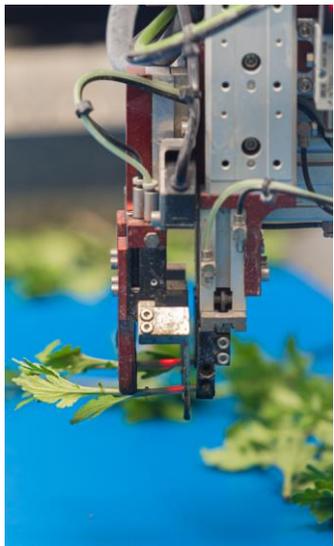


We enable our clients to optimize key breeding, propagation and cultivation processes

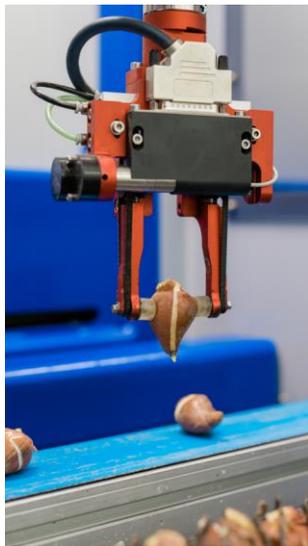


- ISO Group applies the success from horticulture automation into forestry nurseries;
- We work together with our clients to develop the right solution combined with the right economics;
- All solutions are customised and optimize your workflow.

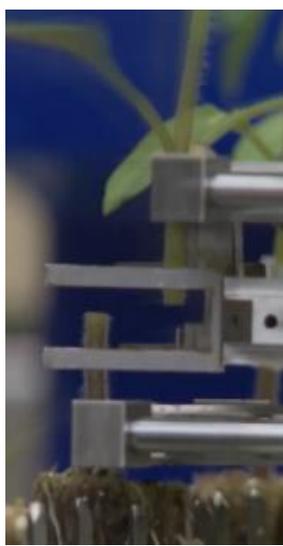
Cutting
Planting



Bulb
Planting



Grafting



Grading &
Sorting



Plant Data
generator



DNA
Sampling

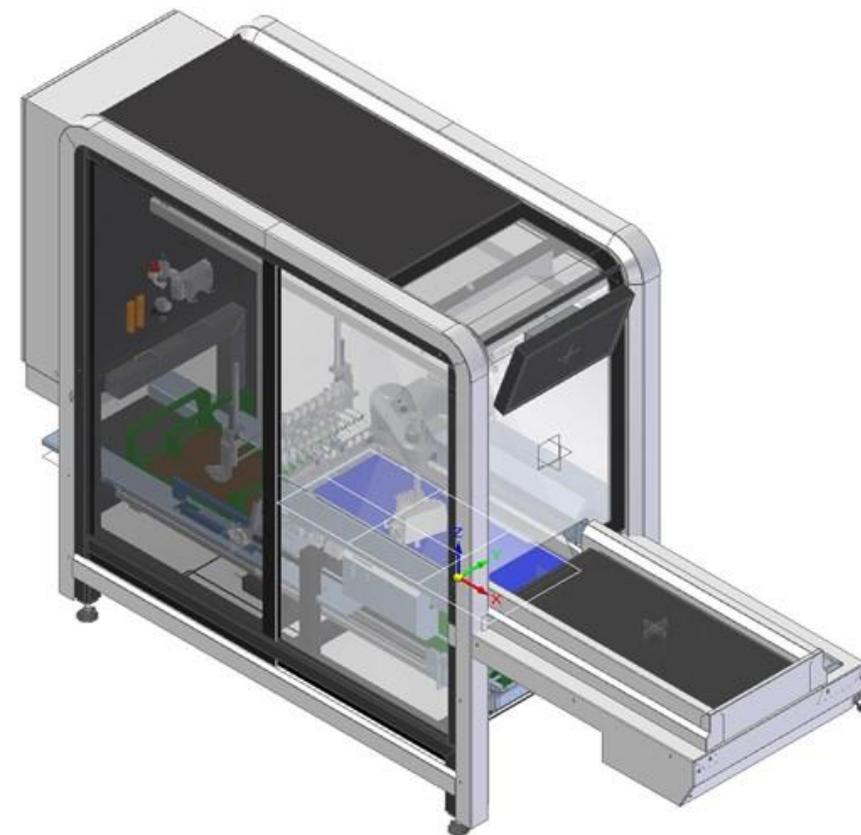


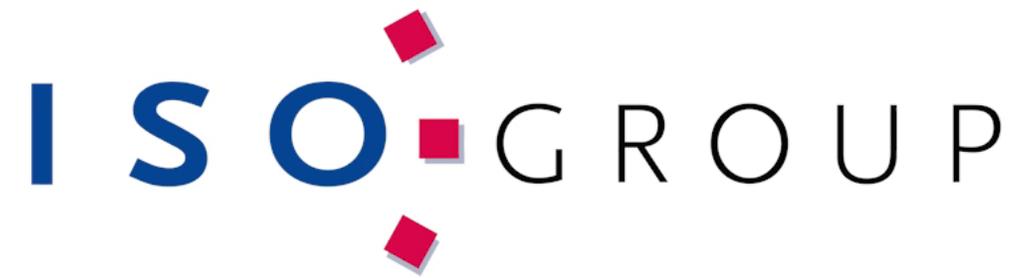
Plug Planting



New Forestry Cutting Planter

- Latest version of ISO Cutting Planter, modified to specs for Forestry Nurseries
- Provisional capacity of 3.400 cuttings / hr / robot

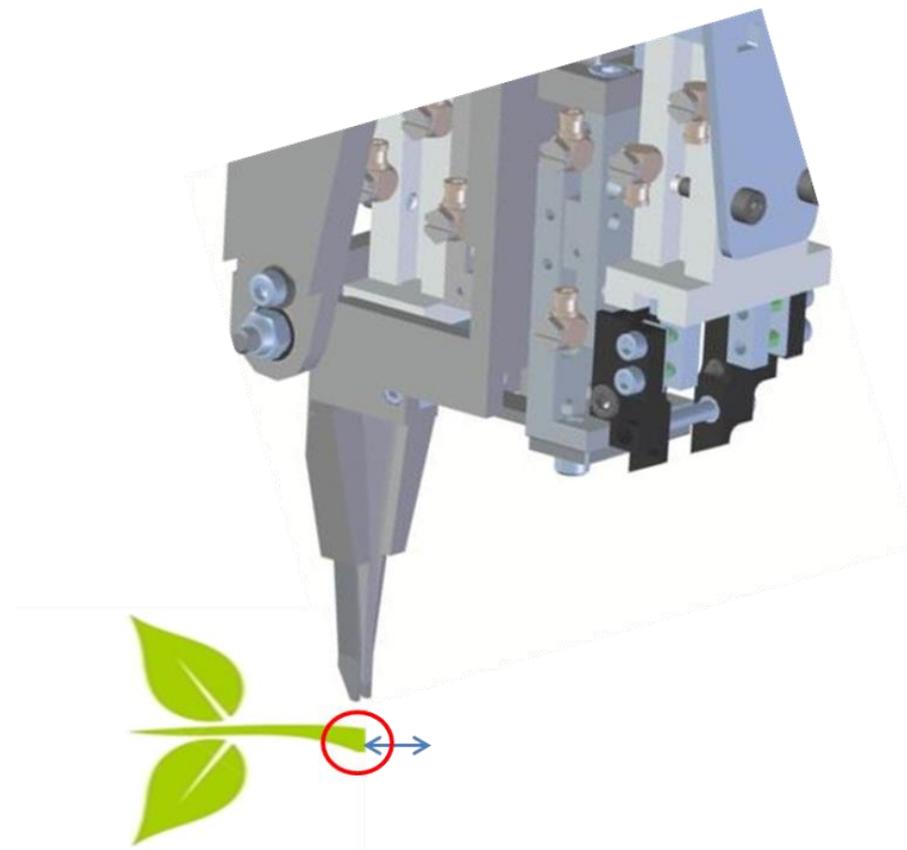




Cutting Planter 4000 2.0

Uniform Starting material with ISO Cutting Planters

- Vision can select cuttings to grower's specs
- Planting consistent and uniform
- Centered planting in every target cell
- Uniform starting material



ISO GRADE 8000



Grading & Sorting



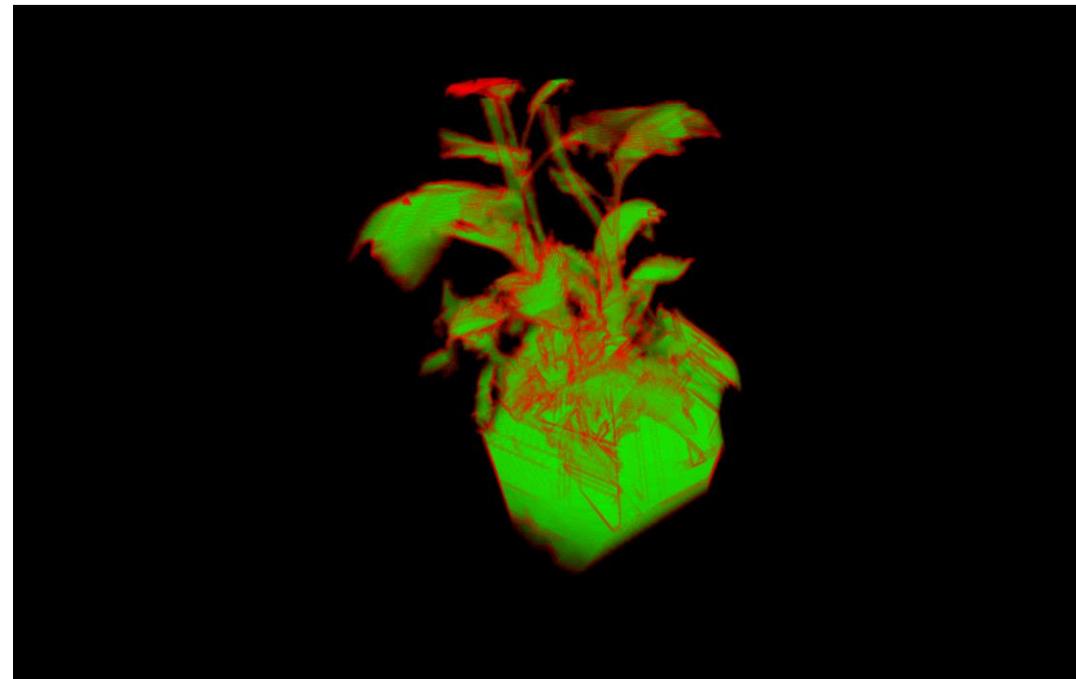
ISO Grade 8000

Uniformity in Nursery Production

- Grading based on your criteria
- Sorting in your classifications
- Every individual plant has a 3D model

Result:

Uniformity across all growing stages, maximising nursery capacity.



Conditions for successful introduction



@Forestry Nurseries

Objective: To achieve the highest possible level of uniformity, quality and sound economics:

- Create optimal working conditions for the robot
- Accept a success rate below 100%
- Open to alternative process to enable robot technology
- Never underestimate the economics!



Thank You

Joep Hendricks

Business Development

+31 683 500 916

ISO Group, The Netherlands

j.hendricks@isohorti.com