

LemnaTec Scanalyzer Greenhouse Comprehensive Assessment of Plant Growth

For both GMO and non-GMO breeding and generally any detailed effect assessment of complete plants, quantitative screening of large amounts of specimen becomes more and more important, for example to provide a better understanding of plant growth and the genomics behind this process.

The Scanalyzer GH achieves a highly efficient, comprehensive and non-destructive assessment of plant growth during the entire life cycle of the test object and collects an unequalled set of data during this process. The Scanalyzer GH consists of a conveyor system and an image acquisition unit to make images from all angles.



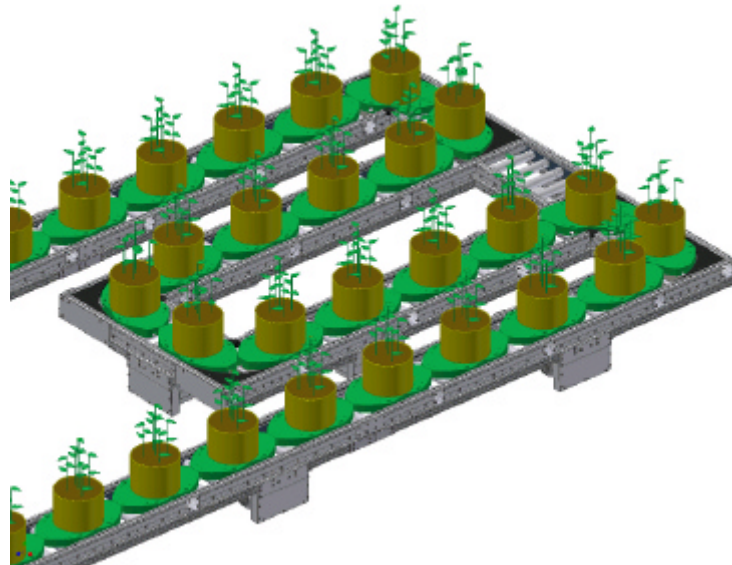
Medium-size unit of Scanalyzer GH for small corn plants



Lift-turtable for imaging

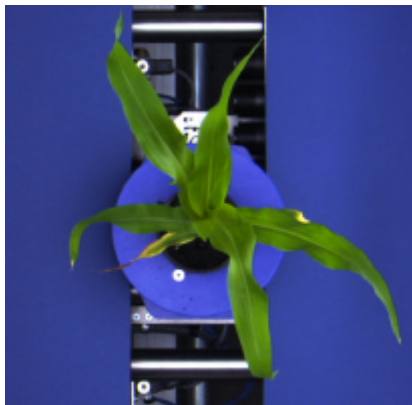
Image processing with Lemnatec Bonit GH provides high-content data on plant size/leaf areas (related to weight), plant morphology and architecture, plant health and stage of development including flowering time etc.

The image acquisition units and conveyor systems are custom-made to suit the specific needs of each customer, allowing for example to automate entire greenhouses by installing conveyors.



Model of a conveyor system for an entire greenhouse

Specific needs of different plants depending on their size and growth morphology can easily be implemented in the Scanalyzer hard- and software.



Top view



Side view



Side view 90°

In the case of corn automatic corn identification of the main side view and defined rotation is necessary for identification of the plant architecture architectural features like internodal distances and, for example leaf angles.

For further information, please do not hesitate to contact:

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