PEAT PACKAGE PALLETIZING CELL





The automated cell palletizes peat bags into multi-layered, transport-ready stacks. The system gives the enduser a wide variety of functionality with customizable parameters, while retaining all the benefits of an easy-touse, compact system. The cell consists of two incoming peat bag-positioning conveyors, pallet stock, a placement tower, a human-machine interface screen, a robot, and its claw, and a mounting platform, as well as its controller.



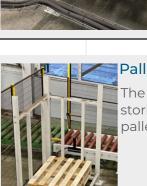
Flipping conveyor

The first conveyor either flips the peat bags on their side or simply pushes them towards the second conveyor, depending on how the operator has configured the system.



Rotating conveyor

The second conveyor rotates the peat bags 180 degrees, if necessary, and then, at the end of the conveyor, positions them accurately so that the robot can pick them up.



Pallet stock

The frame of the pallet stock acts as a place for storing the pallets that will be used for palletizing.



Claw

Multifunctional robot claw can pick up peat bags as well as pallets. During pallet or peat bag

handling, they are fixed in place within the claw by pneumatic safety cylinders.

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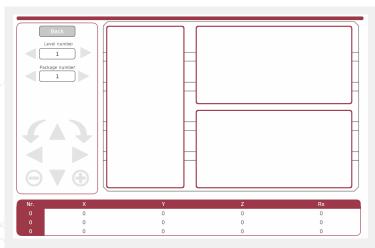


Using the HMI screen, cell operators can not only monitor the current state of the cell, but also create multiple peat bag orientation and offset configurations and then save them in the system's database. The screen provides additional functionality such as manual control of the cell and work mode selection.



Main screen

The main screen gives a general overview of the system and enables to monitor all the current information as well as toggle between several work modes.



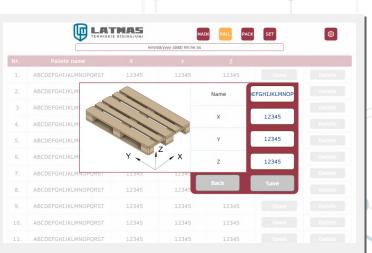
Offset editor

The offset editor provides the ability to make minor adjustments to the peat bag placement, allowing to create a tighter or more loose-fitting stack.



Package editor

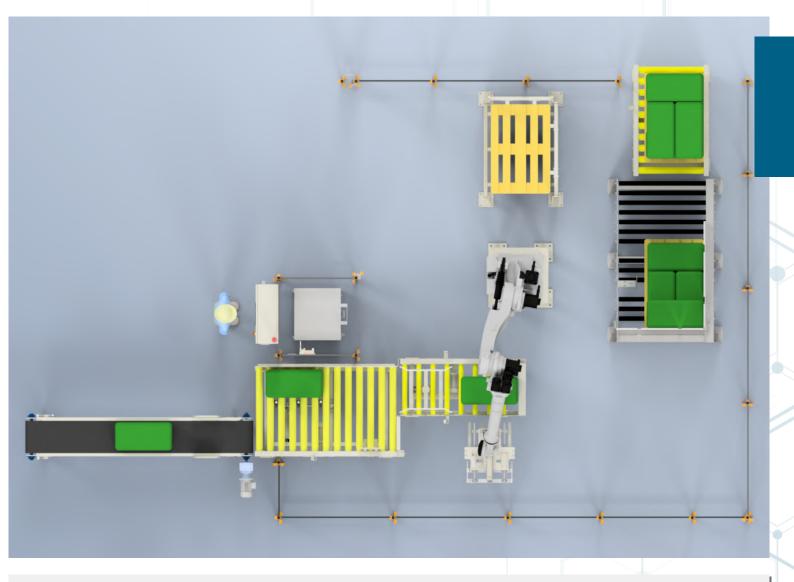
The peat bag information editor allows the operator to input new entries in the peat bag database, including all the nominal dimensions as well as a designation.



Pallet editor

The pallet information editor operates the same way as the peat bag editor. The operator can input or edit entries within the database.





Technical information

Robot parameters

Payload	160 kg
Max reach	3036 mm
Degree of freedom	6 axes
Repeatability	+- 0.15 mm
Ambient temperature	0-45 C
Approximate weight	985 kg
Max rated power	8 kVA
Controller model	Hi5a

Cell parameters

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Size	4000 x 5500 mm
Cell speed	up to 10 packages / min
Max package size	400 x 400 x 800
Max package weight	80 kg
Max pallet size	800 x 1200 x 90 mm
Required air pressure	6-7 Bar
Required voltage	3 x 400 VAC

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