

# JEMA AgroSystem - Flat Floor Storage System

Intelligent transportation of granulates to flat floor storage systems.

JEMA AgroSystem allows you to transport grain (and other granulates) to a flat floor storage system divided into different compartments and thereby store it at different layers and heights to ensure optimal storage and drying.

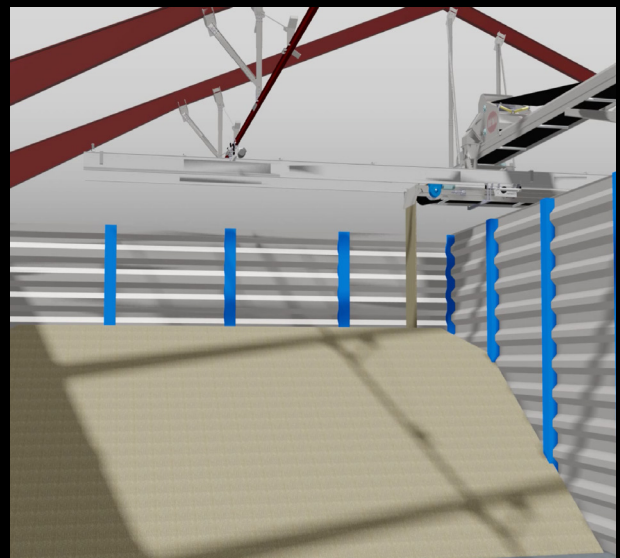
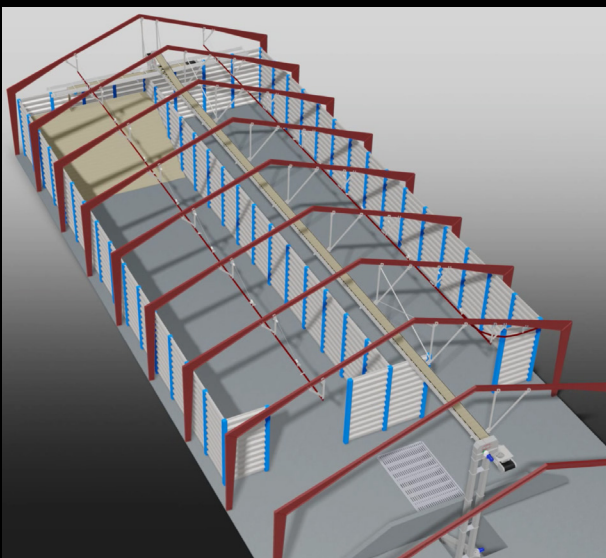
JEMA AgroSystem is used to distribute different types of grain in a building.

JEMA AgroSystem allows you to easily distribute grain in a flat floor storage system divided into different compartments. In other words, your flat floor storage system can be converted into a number of cells with individual storage heights.

Grain ready for storage is transported to a cell that is filled until the layer reaches the maximum set height. On the other hand, grain for drying is transported to a compartment equipped with air ducts and stored at a depth suitable for drying. One or more additional layers are added to this compartment on the following day, and new layers are added until the desired storage height is reached.

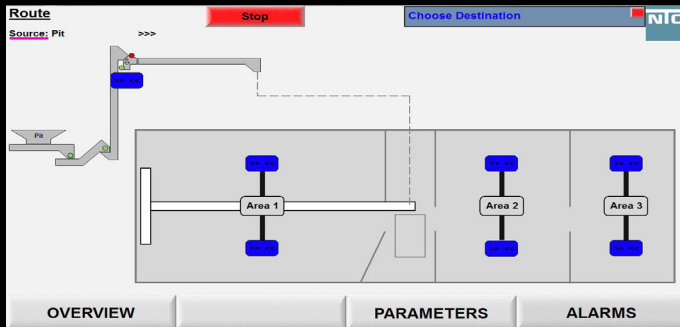
JEMA AgroSystem distributes the grain in each new layer to the exact height that has been input in the operating panel. Once one layer is distributed throughout the cell, the system adds another layer. The system stops when sensors notice that there is no more grain in the intake.

The built-in real-time layer height measurement provides JEMA AgroSystem with a full overview of quantities in the flat floor storage system and gives you a clear indication of your storage costs.



## JEMA AgroSystem - Flat Floor Storage System

JEMA AgroSystem handles not only grain but all types of granulates, e.g. seeds, soya, fodder, maize, chips etc. JEMA AgroSystem's intelligence comes from a Beckhoff PLC programmed to provide simple user operation on a 15.6" colour touch screen. It shows graphic symbols and a limited amount of text in the selected local language, which makes the system very user-friendly.



When the system is in manual mode, it is possible to start and stop motors and set their speed (if the motors are operated by frequency converters) manually. It is possible to view graphically on the screen which of the motors are running and which of them have stopped. For manual control of the cross conveyor, we recommend the option with an 8-function remote control.

Transport routes are easily created in automatic mode via a built-in 2-step guide where you define intake and destination compartments. Parameter setup is used for defining the maximum height of the flat floor storage layer, the filling speed, and the thickness of each layer of grain. The flat floor storage system is divided into a number of cells. The screen shows the status of the installation at all times, e.g. "Started". If there are any errors, they are listed in an alarm log where it is possible to reset them.

The operating panel of the AgroSystem installation is password-protected, and if you need assistance with JEMA AgroSystem, the system connects for remote assistance via a GSM module on a secure VPN connection. This allows a technician to guide you and take immediate corrective action without having to drive to the site.