



FLEXIPLANT®

Solutions & Services for Industry

FLEXIPLANT is a pre-built modular unit designed for batch manufacturing of dry powder and granular products with fully automated operations.

FLEXIPLANT specific design enables to process a large number of products and recipes.



FLEXIPLANT process description

Loading process step: batch hoppers are filled with raw bulk materials constituting the recipe of the final product.

Mixing process step: the filled batch hopper is unloaded into the mixer before the mixing process.

Basic module

- ✦ **Rotation conveyor:** a carousel conveyor with 4 fixed arms, the upper ends of which support a batch hopper. The body of the carousel rotates a quarter turn from one processing step to the next
- ✦ **Batch hoppers:** hoppers designed to receive the batch quantity
- ✦ **Skip conveyor:** a conveyor that raises the filled batch hopper over the mixer
- ✦ **Mixer and receiving hopper**

Configurable and combinable elements

- ✦ Batch hopper
- ✦ Mixer
- ✦ Small quantity additive storage hoppers, dosing screws and weighing hoppers
- ✦ Large quantity storage silos and dosing screws
- ✦ Super sack, big bag and sack unloading equipment
- ✦ Process control solution

Benefits

Performance



- ✦ By using the carousel conveying system with the 4 batch hoppers, manufacturers can process **4 production batches simultaneously** and **reduce production cycle time to under 3 minutes per batch**
- ✦ Plant automation ensures **short set-up times**. FLEXIPLANT can be supplied with **PRODOSE management control software** which has specifically been **designed for batch processes** and to manage all process manufacturing steps. Thanks to PRODOSE flexibility, no reprogramming is required when new additional equipment is added

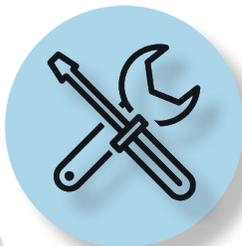
Reduced investment costs

- ✦ **FLEXIPLANT** can easily be installed in an existing building due to its **compact design (compact footprint and low height)**
- ✦ **Greatly reduced civil engineering works**



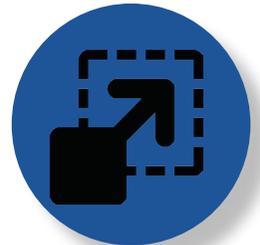
Low maintenance requirements

The FLEXIPLANT concept as well as the robustness and sustainability of ACTEMIUM equipment ensure **reliable batch operations** and **reduce maintenance costs**.



Scalability

FLEXIPLANT characteristics offer manufacturers the possibility of expanding the number of raw materials and **increasing capacity with low additional investment costs**, by adding new storage, weighing, dosing or bulk handling equipment around the carousel at each process step. FLEXIPLANT is **easy** and **quick to reconfigure**.



No risk of cross contamination

Batch hoppers are **easy to remove and clean**. The mixer is available with a **Clean-In-Place (CIP) system**.



Time-to-market

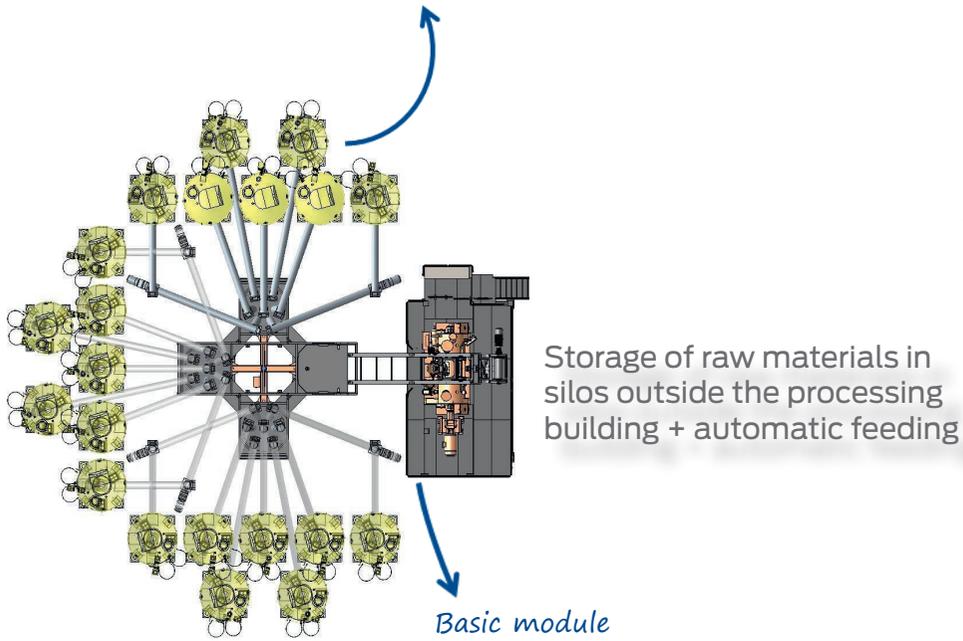
Delivery time is **significantly shortened** thanks to standard manufacturing processes, equipment design, and Product and Manufacturing Information (PMI).

Each module is **pre-assembled, pre-cabled** and **tested** in the workshop before shipment thus **reducing mounting time on site** and making FLEXIPLANT **easy to move**.

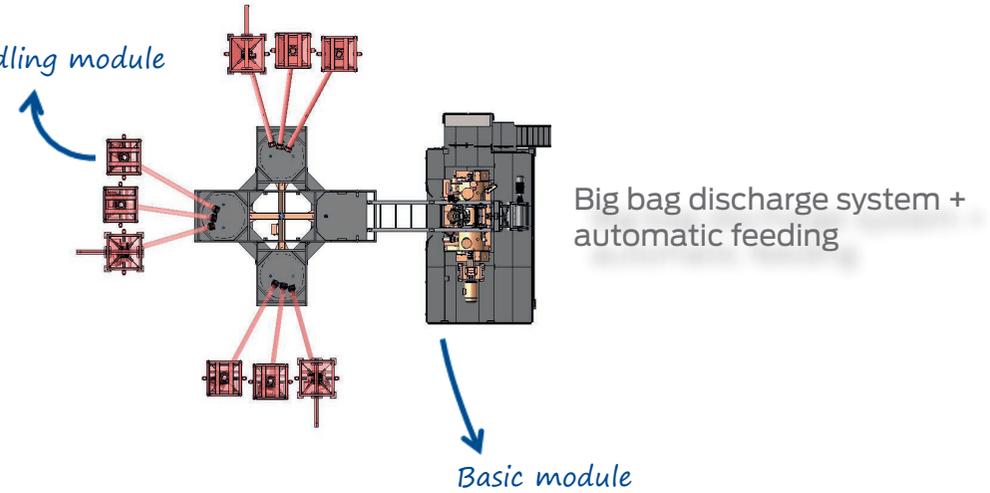


Examples of configuration

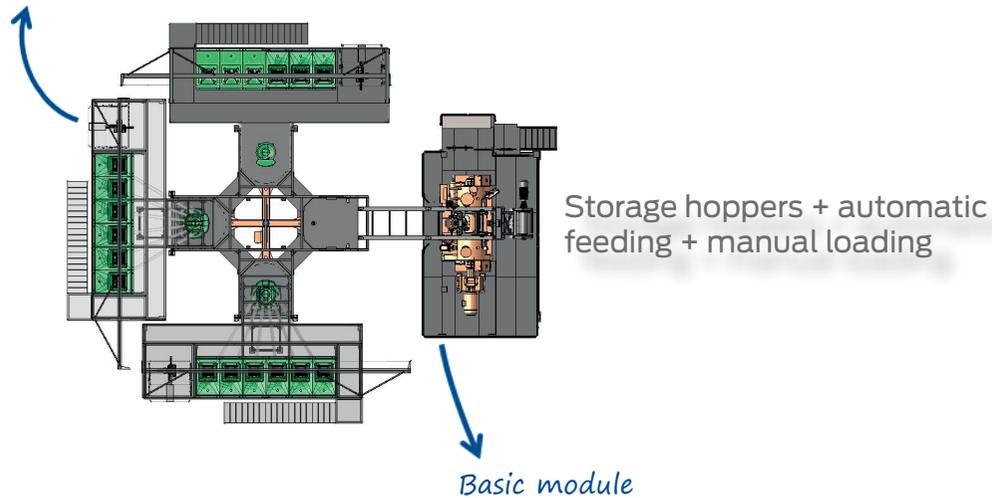
Large quantity bulk material handling module



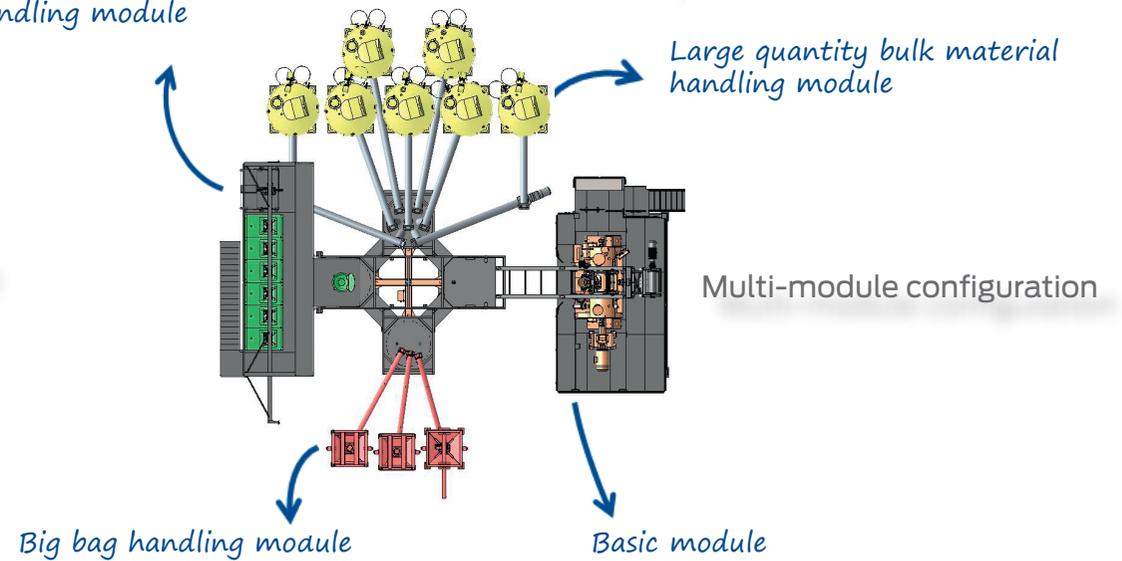
Big bag handling module



Small quantity bulk material handling module



Small quantity bulk material handling module



Standard auxiliary equipment

- ✦ Central dust collection system, batch weighing hopper maintenance equipment, compressed air production system



Optional

- ✦ Upstream and downstream processing equipment (e.g. sand dryer, sieve, packing line, palletizer)
- Recycling equipment
- ✦ Mixer optional features (e.g. CIP system, auxiliary outlet, discharging, high speed choppers)

FLEXIPLANT is **CE marked** and designed for use in **explosive atmospheres** (compliant with the ATEX EU directive), ensures safe handling of **CMR substances** and is suitable for use in the **food industry**.





FLEXIPLANT is designed for all industrial mixing processes using **dry powder, granules, pellets and other bulk solids**:

- | | |
|-----------------------|---------------|
| + Building materials | + Food |
| + Specialty chemicals | + Animal feed |
| + Automotive | + Environment |
| + Life sciences | |

Actemium,
a worldwide
network



A network 100% dedicated to industry

- 40** Countries
- 300** Business Units
- 20 000** Engineers and Technicians
- 2,1 billion €** Turnover

Improving industrial performance

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