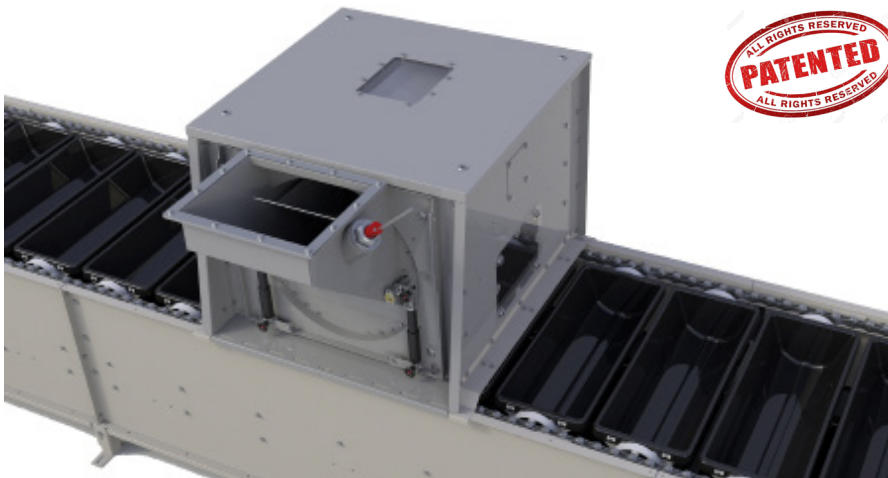


## Continuous **B**atch **F**eeding **S**ystem



# Simatek Drum Feeder

The patented Simatek Drum Feeder is next generation technology within gentle feeding of Simatek universal elevators. This unique, mechanical drum feeder has many advantages compared to traditional feeding systems.



*Drum feeder mounted on a Simatek universal elevator*



## High filling degree without spillage

The elevator buckets are filled separately and continuously. The variable dosing of the buckets makes it possible to obtain a very high filling degree which results in a higher conveying capacity and/or lower speed compared to other feeding systems. Often, it will be possible to obtain a significant capacity increase on existing elevators when changing to a drum feeder.

The filling degree may be regulated during operation by a built-in, actuator controlled damper. This is possible at any conveying speed.



*95% filling degree*

## Robust design – greater operational reliability

Because the buckets are filled separately and precisely there is no need for overlap between the buckets, thus there is no mechanical contact between the buckets. By using FRB buckets (without overlap) there is no need for forced controlling. Thereby, it is possible to leave out the most wearable parts, the bucket guides.

With the Simatek Drum Feeder you will get higher operational reliability and much lower operational costs.

## Easy to clean

The drum feeder is made in a cleaning-friendly design with quick and easy access to parts in touch with the product. The drum may be taken out separately in only few minutes for easy cleaning.

## Design

The drum feeder is available in a painted and a stainless steel version.

## Bulk products

The drum feeder is suited for implementation in processing plants for gentle conveying of:

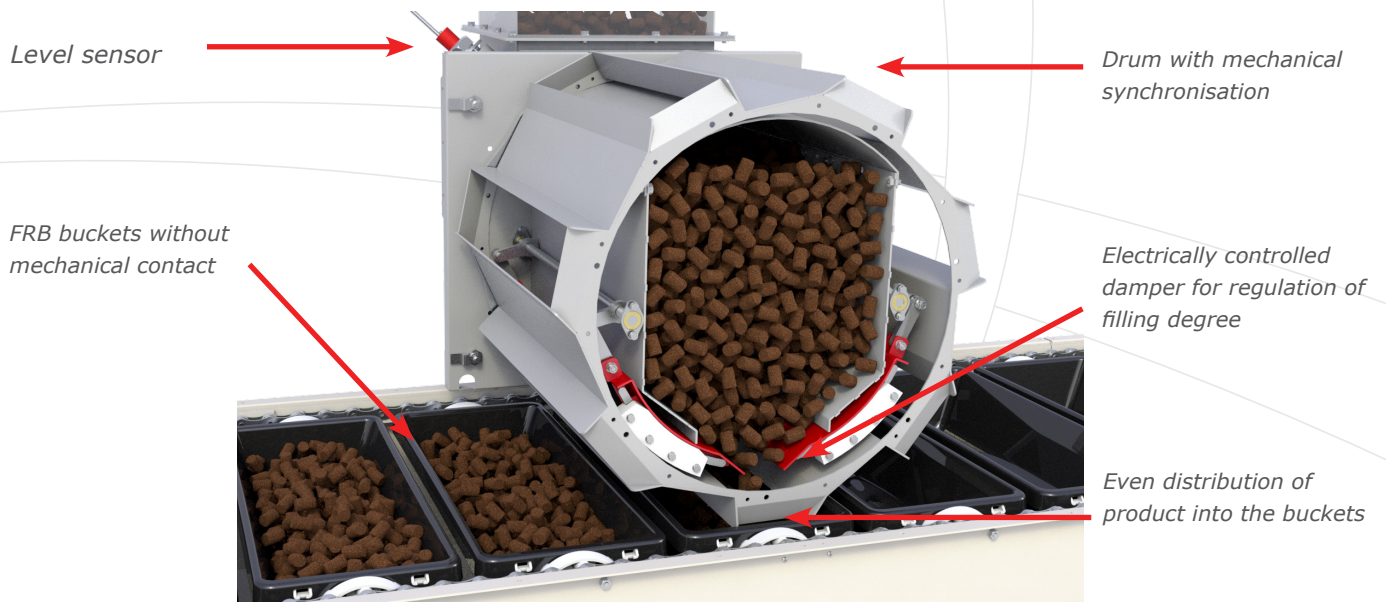
- Granulates
- Powders
- Pellets
- Seeds
- Grain shaped product

For bulk products with poor flow properties a forced feeding system or a vibrating feeder device may be added. See separate brochures.

## Next generation feeding system

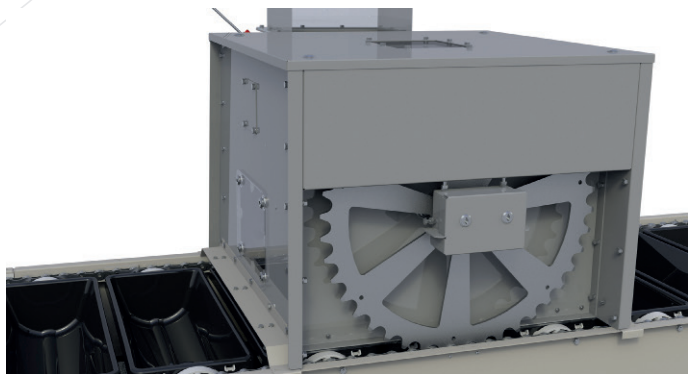
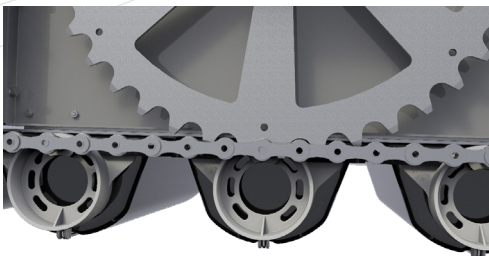
### Gentle filling without product spillage

- The drum feeder fills the buckets accurately and gently without product spillage.
- The integrated level sensor gives signal to open the damper when there is product in the drum.
- The dosing damper valve is controlled electronically via the control unit or directly from the PLC.



### Mechanical construction

The drum feeder is synchronised with – and mechanically driven by the elevator chains. This enables precise product filling at any conveying speed.



A Gentle and Flexible Solution

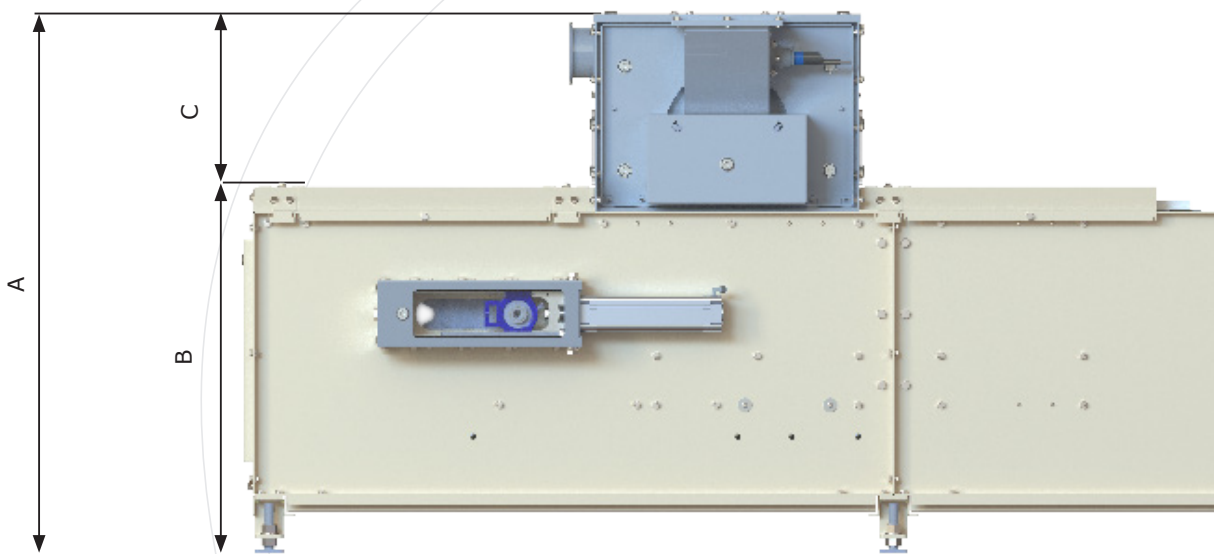
# Simatek Drum Feeder Implementation

## Built-in height

When implementing the Simatek Drum Feeder it is important to secure sufficient built-in height.

In addition to the built-in height for the drum feeder it will often be necessary to reserve space for a small buffer bin on top of the drum feeder. The buffer bin is essential when the product flow is uneven in order to avoid the drum feeder from running empty.

The integrated level sensor and control unit will ensure controlled filling of the elevator.



Elevator type built-in height	33	110	110 XL*	160/200	160-200 Split**	460
A	994	1130	1372	1372	1130	1767
B	618	756	756	756	756	961
C	376	376	616	616	376	806

\* Drum feeder for poor flowing products

\*\* Parallel drum feeders for split buckets (simultaneous conveying of more product types)