

Silo Arch-breaker & Feeder ZDM 400



Waste water



Drinking water



Air & smoke

Silo Discharge and feed system :

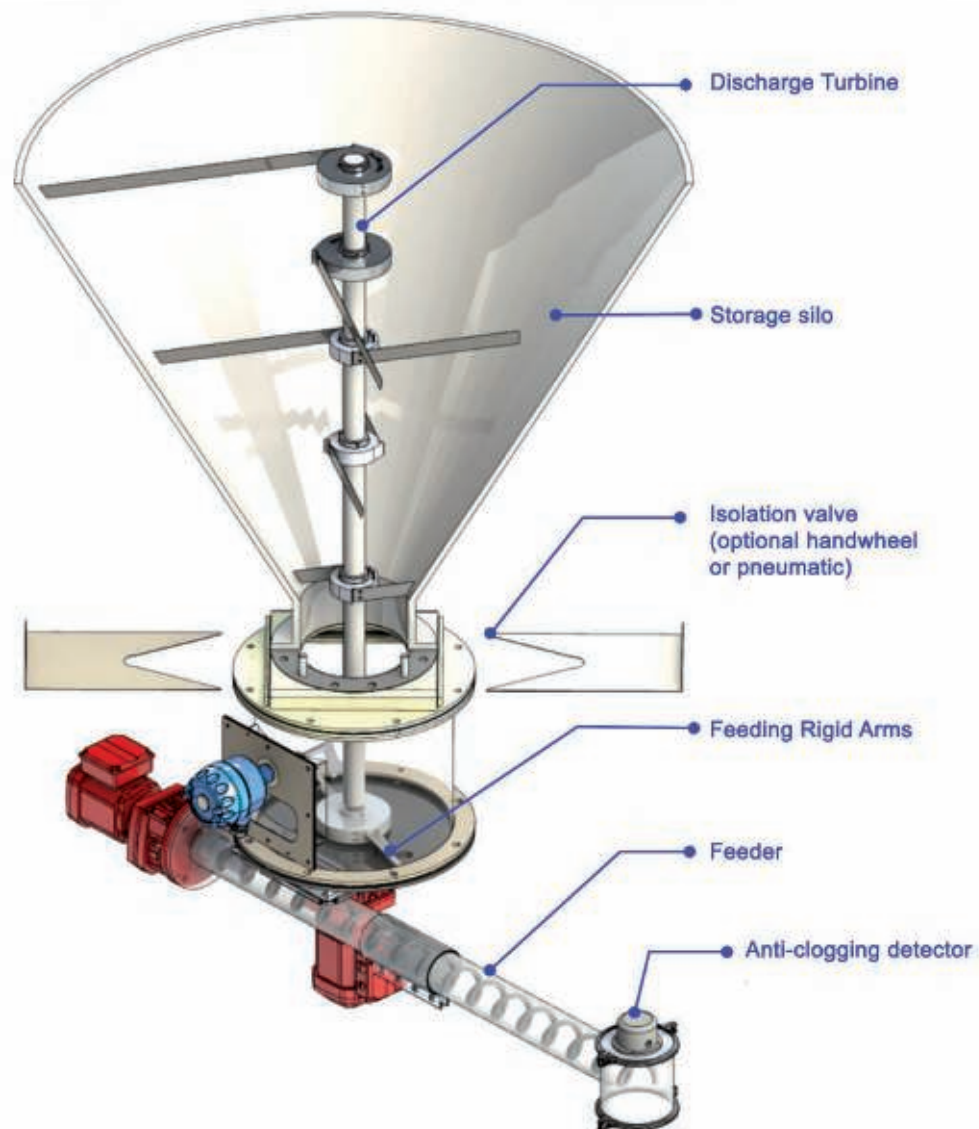
The ZDM arch-breaker and screw feeder is a mechanical discharging and volumetric feeding system for conical bins and silos.

The fully assembled unit provides complete discharge, isolation and accurate feed of bulk chemicals.

Advantages :

Versatile configurations:

- allow to easily change the feeder diameter without replacing the discharging hopper
- Fixation on silo on the flange
- Constant flow and accurate volumetric feed
- Efficient motors with low power
- Multiple feeders operating independently
- Easy assembly onto transfer or injection system
- Totally empty all silo sizes
- Mechanical discharge without packing the product
- Closed system keeping away the powder from any contamination
- Easy to install with its rotating flange, adjustable length, flexible or rigid screw feeder





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Operation :

The ZDM 400 features an arch-breaking turbine that rotates inside the silo cone. The arch breaker flexible blades prevent the product from arching or bridging and promotes a constant discharge flow.

The reclaiming arms assist the complete filling of the volumetric screw feeder to ensure an accurate and consistent feedrate.



Specifications :

- **Fabrication material:** carbon steel, stainless steel
- **Constant or variable feedrate**
- **Up to 4 feeders operating independently**
- **Adjustable onto any silo standard flange**

Exemple of dosed product	Maximum length of metering conveyor
Quick lime	4 m max.
Hydrated lime	7 m (depending on the throughput)
Activated carbon (PAC)	7 m (depending on the throughput)
Sodium bicarbonate	4 m max.
Microsand	2 m max.
Soda ash	4 m max.
Polymer	4 m max.
Other products	to be defined after sample analys

Options :

- **Explosion-proof ATEX 22, 21 and dust tight system**
- **Speed controls**
- **Wheel or pneumatic slide gate**

Metering convoyor type	Range of throughput*	Conveyor outer Ø
30	50 l/h max.	40 mm
40	440 l/h max.	50 mm
70	1 400 l/h max.	76 mm
80	2 300 l/h max.	89 mm
100	3 600 l/h max.	104 mm
120	12 000 l/h max.	140 mm

* the throughput can vary according to the product and the site design