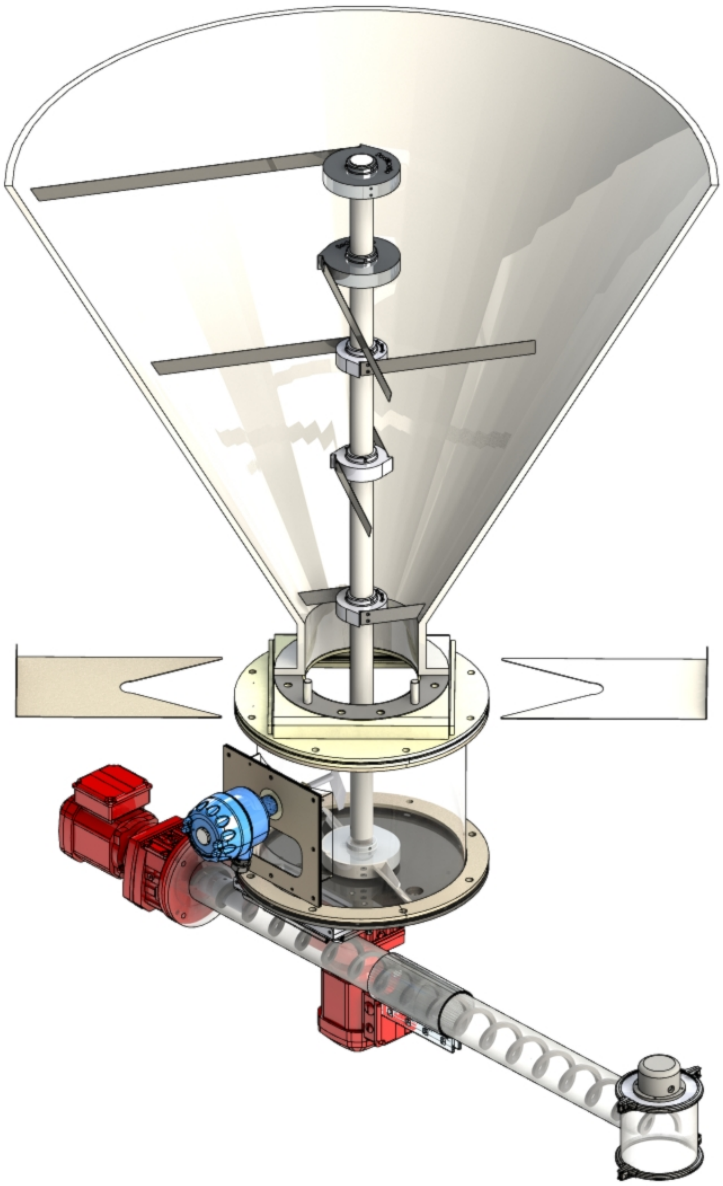
SODIMATE
ADVANCED ENVIRONMENT SOLUTIONS

Silo Arch-breaker & Feeder ZDM 400

Waste water | Drinking water | Air & smoke

Silo Discharge and feed system :

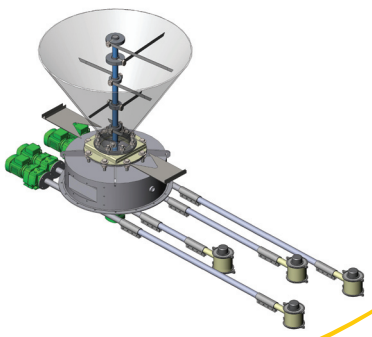
The ZDM arch-breaker and screw feeder is a mechanical discharging and volumetric feeding system for conical bins and silos.
The fully assembled unit provides complete discharge, isolation and accurate feed of bulk chemicals.



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 defiined 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

ZDM 400-FR-0619-REVC

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