

Powder handling expert

Silo discharge and feed system:

The ZDM 400 arch-breaker and screw feeder is a mechanical discharge and volumetric feed system for conical bins and silos. The unit was specifically designed for non-flowing dry powders and chemicals to ensure reliable discharge and volumetric accuracy.

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

Advantages:

- **Extraction of product without** rat-holing, compaction, or contamination
- Complete emptying of the silo
- Easy-assembly on silo flange
- Constant flow and accurate volumetric feed
- Low power consumption
- May include up to 4 independent screw feeders
- Easy assembly onto transfer or injection system
- No air injection or vibration required
- Screw feeders and conveyors can be flexible, inclined, or verticle

Silo Arch-breaker & Feeder ZDM 400



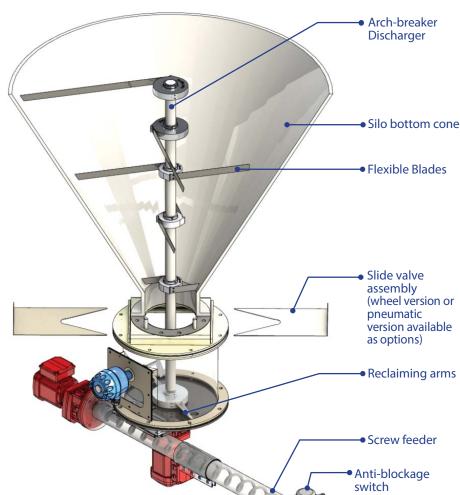




Wastewater Treatment

Water Treatment

Flue Gas Treatment



Installation Examples





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Wastewater Treatment





Operation:

The ZDM 400 features an archbreaking agitator that rotates inside the silo cone. The archbreaker's flexible blades prevent the product from arching or bridging and promote a constant discharge flow.

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



- Fabrication material: carbon steel, stainless steel 304 / 316
- Fixed or variable feedrate
- Single or multiple independent screw feeders
- Rigid or flexible screw feeders
- Adjustable onto any silo outlet flange
- All-in-one unit
- Easy retrofit
- Dust-free and low maintenance

Options:

- Explosion-proof
- Motion sensor
- Pneumatic or electric slide gates
- Outlet chute product detection
- Product flow/ detector sensor







Products		
Quicklime	Cement	
Hydrated lime	Potassium Permanganate	
Powdered Activated carbon (PAC)	Salt/Sugar	
Sodium bicarbonate	Plastic Pellets	
Microsand	Saw Dust	
Magnesium Oxide	Flour	
Polymers	Grains	
Fly Ash	Kiln Dust	

Screw feeder type	Range of feedrate*	Conveyor outer Ø
30	1-20 lbs/hr	1½"
40	8-800 lbs/hr	2"
70	300-2,500 lbs/hr	3"
80	600-4,000 lbs/hr	3 ½"
100	1,000-7,000 lbs/hr	4"
120	2,000-20,000 lbs/hr	5 ½"

^{*}feedrate may vary according to product and density