

Arch breaker & Metering unit DDS 400 / DM



Waste water



Drinking water



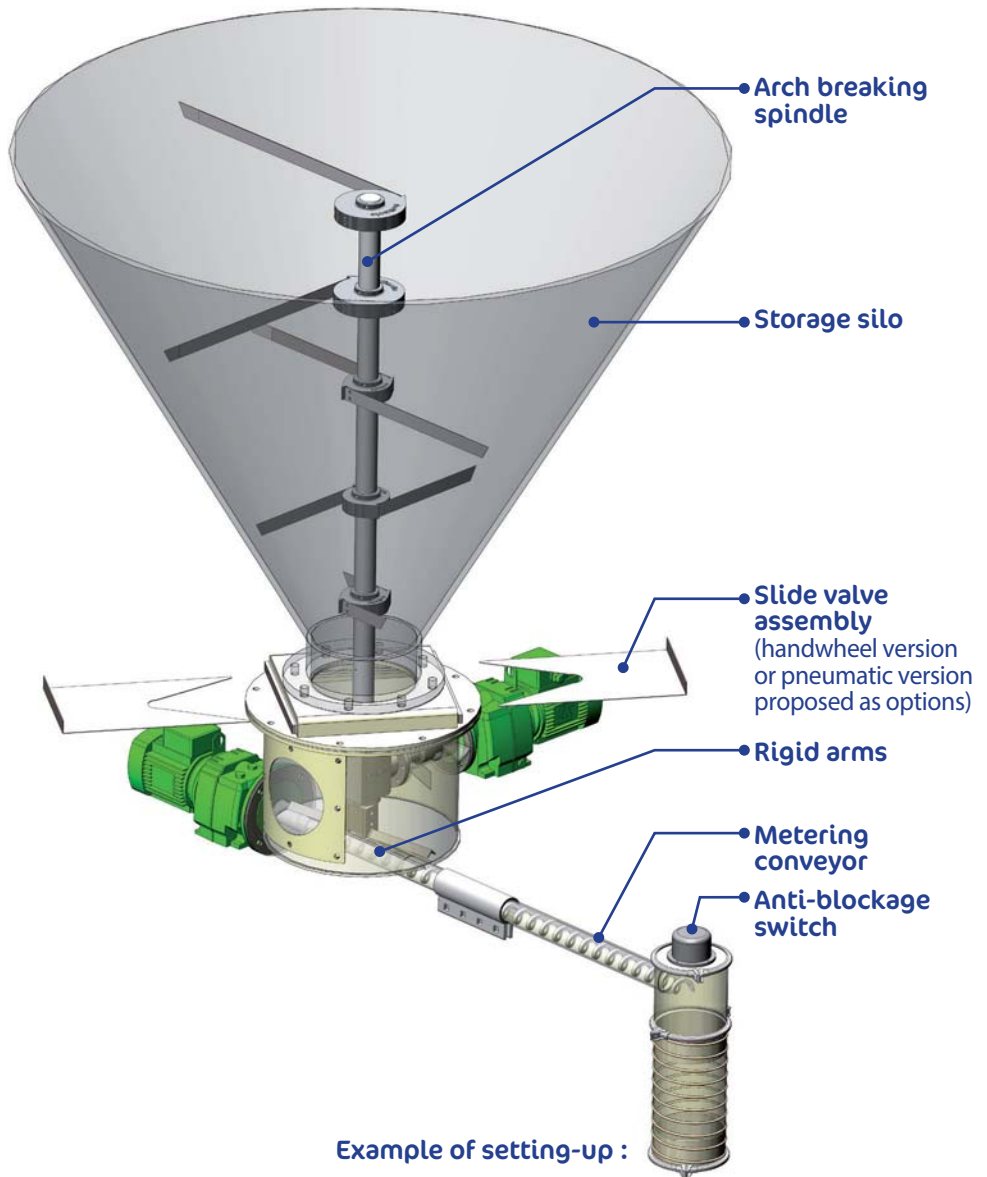
Air & smoke

Powder discharge and dosing system for storage silo :

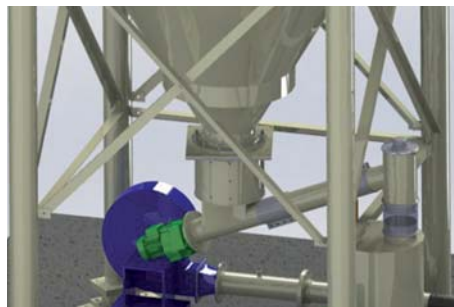
The arch breaker and metering unit DDS 400 is a mechanical discharge and dosing system for bulk powders stored in silo. It can be installed under any kind of conical silo and offers a compact powder dosing unit, adapted to the specific needs of each project.

Advantages :

- Assembled on the silo by single flange
- Constant flow and accurate volumetric dosing
- Low power consumption
- Possibility to have 2 independent metering conveyors
- Easy assembly onto transfer or injection system
- Total emptying of the silo
- Mechanical discharge without product compaction or contamination
- Easy to assemble : free flange, adjustable length, flexible or rigid metering conveyor



Example of setting-up :





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Operation :

The main part of the arch breaker DDS 400 is the arch breaking spindle. It rotates inside the silo cone thanks to a geared motor, allows its flexible blades to prevent the product from building an arch and ensures a constant flow.

The rigid arms, which are directly connected to the spindle, allow the metering conveyor to be fully filled of product in order to obtain an accurate volumetric dosage.



Specificities :

- Metalwork material (carbon steel, stainless steel 304 / 316)
- Fixed or variable throughput
- Simple or double metering conveyor
- Rigid or flexible metering conveyor
- Adjustable onto NP10 standard (ND 200, ND 250 or ND 300) silo outlet flange or other flange standards (ANSI, JIS... etc)

Example 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 analysis

Options :

- Atex certified equipment (Dust - Area 22 and 21)
- Conveyor rotation sensor
- Pneumatic or handwheel slide valve assembly
- Outlet chute product detection

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

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