

Technical details Feed Hopper



- Highly Customizable
- Robust and stable
- Long term reliable material infeed

www.moerschengmbh.de

Lerchenfeldstraße 76 47877 Willich-Anrath Geschäftsführer: Norbert Moerschen USt-ldNr.: DE 192 906 653 Steuer-Nr.: 102/5833/1507 HRB 9540 Amtsgericht Krefeld Volksbank Krefeld eG IBAN: DE15 3206 0362 0009 1830 19 BIC: GENODED1HTK





Application and customer benefit:

Feed hoppers form the entryway to any form of production plant and thus the beginning of an efficient and successful treatment process for aggregats and other bulk materials. Feed hoppers from Moerschen are a long term reliable material feed solution due to their strong and weatherproof design.

Your benefits:

- **Continuous feeding** of the follow up plant, through large hopper volume. Even when the loading of the hopper is interrupted.
- Safety for your plant due to the integrated oversize protection
- Precise variation of the output volume enabled by the adjustable conveyor drive
- **Reliable for many years** due to the strong construction and weather resistant surface treatment
- Individually customizable due to modular design

Basics:

- Hopper cone made of 8mm Steel sheets
- Hopper side walls made as a reinforced sheet metal design
- Stable underframe made from IPE steel beams
- The underframe is mounted on sleds for easy movements on site
- Hopper cone and side walls finished in primer 60 μm and paint 60 μm
- Underframe galvanized

Selectable options:

- Volume 7,5, 10, 15, 20, 25, 30 m³ available
- Output via dosing belt or vibrating feeder
- Oversize separation via hydraulic dumping grid or rod sizer
- Additional protective plating inside the hopper cone
- Approach plates for erection of a loading ramp
- Individual underframe heights

www.moerschengmbh.de



Feed hopper

Option Dosing belt:

Length: Belt width: Material width: Drive:

Protection class Output rate: Belt scraper: Material guide walls: 2,0 m 650 mm 500 mm 3 kW AC gerabox motor, suitable for frequency converters IP 54 10 - 250 t/h Turn scraper with ROSTA tension elements With interchangeable wear resistant plating and special sealing for materials with a particle size below 0mm All sheet metal components galvanized

Surface treatment:

Further properties of the dosing belt:

- All parts bolted
- Large access holes for easy changing of suppot rollers
- Belt change without dismantling rollers or pulley
- Idle monitoring via material sensor
- Endless conveyor belt EP 400/3 Decke 4:2
- Convex drive pulley

Option Vibrating feeder:

Feeder length Material width Output Material properties

Drive

Surface treatment

Further properties of the dosing belt:

- Supported by 4 spiral springs
- Baseplate and side wall wear protected with 10mm wear plates hardness HB400
- Wear plates interchangable
- Material infeed via strong feeding chute

www.moerschengmbh.de

2,0 m 650 mm 60 – 350 t/h Max. 3% Moisture Without cohesive parts 2 shaker motors 980 rpm 0,75 kW each Primer 60µm, Paint 60 µm

Feed hopper



Option Rod sizer:

The rod sizer consists of round steel bars that are mounted above the infeed opening of the hopper. The rods are angled towards one side of the hopper and thus deflect all rocks that are too big for the follow up plant. The lower end of the rods is not supported and can swing freely, through this no rocks can be jammed in between the rods.

The angle of the rods can be adjusted by turning the rod mounting bracket.

The rods have a diameter of 60mm and are made of high strength steel.

Option Hydraulic dumping grid:

The hydraulic dumping grid separates large rocks from the infeed material and protects the follow up plant. The grid is available in grid sizes 80, 100, 120 and 150 mm. The grid can be hydraulically lifted and dumps the rocks to the side of the hopper. As a special property the grid tips over 90°.

Because the bars of the grid can move separately from another, rocks that are jammed in between the bars can fall out once the grid is tipped over 90°.

Approach plates

In order to reduce the required lift hight to load the hopper an approach ramp can be build next to the hopper. To allow the material to lean against the underframe the approach plates are bolted to the underframe.

Wearprotection

Depending on the application and the resulting material requirements the hopper cone can be equipped with additional wear plates. The wear plates are 8mm thick and have a surface hardness of 400 HB. For an easier and more precise replacement of worn out spots the plates are segmented in manageable pieces.

Technical changes reserved.

www.moerschengmbh.de