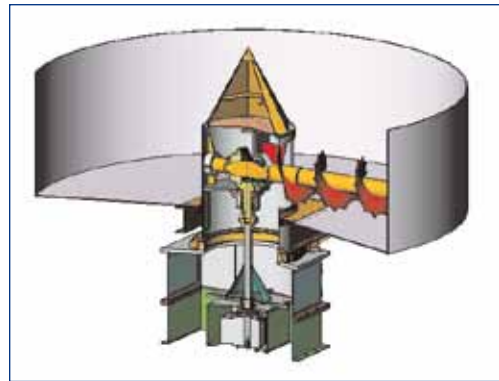


Bunker discharge screw conveyor type BAS 2-4 for reliable discharge of non-flowing or poorly flowing bulk solids

These rotating discharge screw conveyors are installed in the middle of the silos. The conveyors are equipped with ripping teeth welded to the edge of the screw shaft with hard metal. These teeth mill off the compacted material, dislodging it so that it falls into the screw and is conveyed to the silo discharge chute in the centre. A feed drive advances the screw shaft, rotating it about the silo axis so that it mills off material over the entire cross-section of the silo.

This reclaiming process destroys any material bridges that may form in the silo, thus ensuring reliable discharge.



Applications

Conveying screws are used in all fields where discharge of poorly flowing bulk solids is required. Conveying screws by CHOREN Components GmbH are suitable for discharging the following products:

- ▶ wood chips
- ▶ shavings and wood dust
- ▶ waste wood chips, classes I-IV
- ▶ sawdust
- ▶ chipped bark



- ▶ shredded plastic waste (fluff)
- ▶ shredded carpet
- ▶ dewatered sewage sludge
- ▶ meat and bone meal
- ▶ combustion fuels

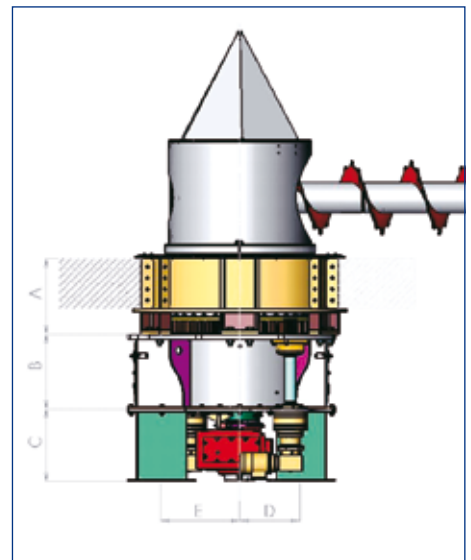


- ▶ filter dust
- ▶ organic waste
- ▶ compost
- ▶ grain and pulses
- ▶ kaolin



Specification overview

| Model | | BAS 2 | BAS 3 | BAS 4 |
|--------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|
| Max. silo diameter | (mm) | 12,000 | 15,000 | 20,000 |
| | (Feet) | 40 | 49 | 65 |
| Max. silo height | (mm) | 20,000 | 25,000 | 25,000 |
| | (Inches) | 65 | 80 | 80 |
| Max. discharge rate | (m ³ /h) | 120 | 250 | 350 |
| | (ft ³ /h) | 4,300 | 8,900 | 12,500 |
| Max. drive motor power | (kW) | 22 | 45 | 132 |
| | (hp) | 30 | 60 | 180 |
| Dimensions (mm)/(Inches) | A | 420/16 ¹ / ₂ | 420/16 ¹ / ₂ | 660/26 |
| | B | 500/20 | 550/21 ¹ / ₄ | 760/30 |
| | C | 500/20 | 500/20 | 830/32 ¹ / ₂ |
| | D | 350/13 ³ / ₄ | 435/17 | 700/27 ¹ / ₂ |
| | E | 365/14 ¹ / ₄ | 555/21 ³ / ₄ | 850/33 ¹ / ₂ |



The discharge screw conveyors are manufactured in various sizes and are suitable for use in silos of 3,000 mm to 22,000 mm in diameter (10 ft to 70 ft). Silo height depends on the material to be stored and the silo diameter. A frequency converter is used to control discharge rate, which is continuously variable with a possible maximum of 350 m³/h depending on the material.

References

Discharging devices for cement mill

- ▶ Wood chips, meat and bone meal, sewage sludge and fluff
- ▶ Silo plant: 6.8 m diameter (20 ft)
- ▶ 3 discharge screw conveyors type BAS-2-68-11-450

Discharging devices with ATEX certificate

- ▶ Meat and bone meal, sewage sludge and fluff
- ▶ ATEX-type examination
- ▶ Discharge screw conveyor type BAS-52

Silo plant for Carbo-V® gasifier

- ▶ Waste wood chips
- ▶ 12 m diameter (40 ft), 22 m height (72 ft)
- ▶ 3 discharge screw conveyors type BAS3-120-45-450



BAS 3, integrated in concrete silo



Concrete silo plant for wood chips

Consulting/Sales

CHOREN Components GmbH
 Büro Dillenburg
 Herbert Greeb
 Hunsbachstraße 4
 35684 Dillenburg
 Telefon/Fax: +49 2771 8140-420/-421
 greeb@gtc-greeb.de