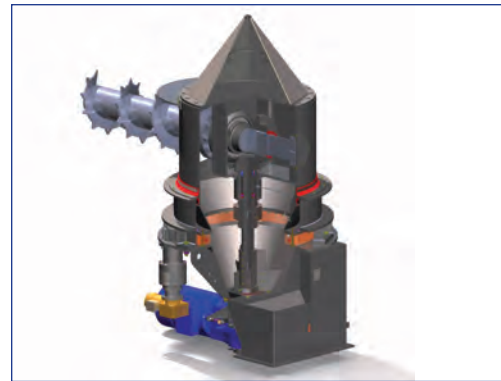


Bunker discharge screw conveyor type BAS 50-54 for reliable discharge of non-flowing or poorly flowing bulk solids

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:

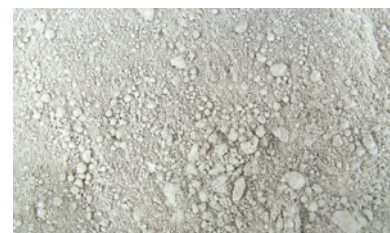
- ▶ wood chips
- ▶ shavings and wood dust
- ▶ waste wood chips, classes I-IV
- ▶ sawdust
- ▶ chipped bark



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



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

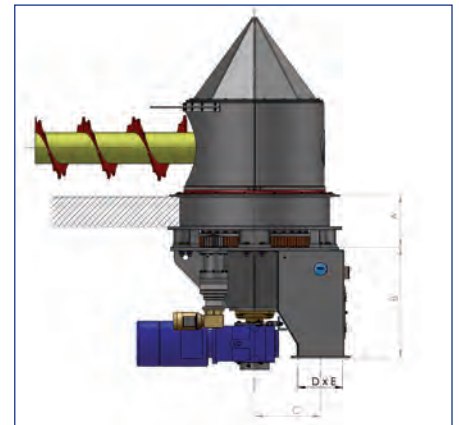


Specification overview

Model		BAS-50	BAS-51	BAS-52	BAS-53	BAS-54
Max. silo diameter	(mm)	6,000	6,000	12,000	16,000	25,000
	(Feet)	20	20	40	50	82
Max. silo height	(mm)	8,000	8,000	20,000	25,000	30,000
	(Feet)	26	26	65	82	100
Max. discharge rate	(m ³ /h)	5	120	180	250	400
	(ft ³ /h)	180	4,300	6,500	9,000	14,000
Max. drive motor power	(kW)	3	11	22	45	132
	(hp)	4	15	30	60	180
Dimensions (mm)/(Inches)	A	340/13 ¹ / ₂	340/13 ¹ / ₂	420/16 ¹ / ₂	420/16 ¹ / ₂	660/26
	B	500/20	800/31 ¹ / ₂	1,060/41 ³ / ₄	1,000/39 ³ / ₄	1,600/63
	C	285/11 ¹ / ₄	425/16 ¹ / ₂	425/16 ¹ / ₂	580/23	810/32
	D	200/8	400/16	400/16	400/16	600/24
	E	300/12	500/20	700/27 ¹ / ₂	900/35 ¹ / ₂	1,500/59

The discharge screw conveyors are manufactured in various sizes and are suitable for use in silos of 2,500 mm to 25,000 mm in diameter (8 ft to 82 ft). Silo height depends on the material to be stored and the silo diameter.

Because of circumferential speed <1 m/s within the bunker discharge screw, this type is ideally suited for using it in fields of ATEX-certification.



References

BAS-52 discharging devices

- ▶ wood and waste wood chips
- ▶ 2 silo plants: 5.0 m diameter (16 ft)
- ▶ discharge rate: 120 m³/h

BAS-53 discharging devices

- ▶ wood and waste wood chips
- ▶ 4 silo plants: 16.0 m diameter (50 ft)
- ▶ discharge rate: 120 m³/h



Silo plant with a bunker discharge screw BAS-52 with integrated dosing dispenser and 3 metering screws.



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