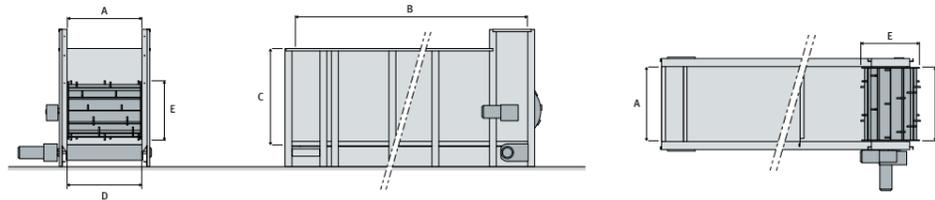


Drum Feeder. Main specifications.



Bollegraaf Drum Feeder (BDF)		
Steel-belt conveyor	HBST-1200/1600	HBST-1200/2000
Diameter BDF	1.600	2.000
Belt width (mm) A	1.600	2.000
Belt length (mm) B	Length till 25 meters	
Belt speed (m/min)	variable frequency control	
Protection degree	IP-54	
Side panel height (mm) C	2.000	2.000
Loading height (mm)	2.850	2.850
Standard color	RAL 6024 (other colors are optional)	
Drum width (mm) D	1.500	1.900
Drum diameter (mm) E	1.360	
Drum motor	15 kW or, depending on requirements	
Rotations/min	40-70, with variable frequency control	
Capacity ton/hour, Mix of Plastics (38 kg/m ³)	14	18
Capacity ton/hour, Co-mingled (113 kg/m ³)	42	53
Capacity ton/hour, Single Stream (135 kg/m ³)	50	63
Capacity ton/hour, Fibers (200 kg/m ³)	74	93
Carriers on drum	12 transversely placed carriers, 80 mm high, 2000 mm long	
Cams on drum (no.)	24 Hardox cams, 160 mm high, mounted in spiral form, removable, can be used on 4-sides	



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About Bollegraaf.

Bollegraaf Recycling Solutions is a leading global engineer and manufacturer of turnkey recycling solutions and recycling equipment, based in the Netherlands. Bollegraaf Recycling Machinery b.v. and Lubo Systems b.v. are production companies of the Bollegraaf Group.

We focus on the innovative character and reliability of our solutions and the high quality of our products and services. With a track record of 50+ years in the industry, we have the experience to achieve this. Bollegraaf invests heavily in research and development, as well as in the latest manufacturing equipment and facilities. All this is to ensure a profitable and sustainable business for our clients.

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Bollegraaf Drum Feeder.

Bollegraaf Drum Feeder

This is an overview of the most important features and options for our range of Drum Feeders.



Advantages.

1 Material carriers

- Twelve 80mm high carrier grippers ensure optimal transportation of materials.
- The combs are mounted in a spiral pattern to ensure that boxes can be opened and picked up.

2 Hardox combs

- Twenty-four special hardox combs (160mm high) for picking-up and opening cardboard boxes. Each comb can be used 4 times by turning them in a new angle.

3 Smooth drum start-up

- During start-up, first the bunker belt runs back for approx. 500 mm in order to let the drum reach its operation speed unloaded. During operation, the drum rotates in opposite direction to the belt to carry material over the drum.

4 Heavy steel deck

- The bunker belt is provided with a set of heavy steel slats, which is ideally suitable for loading from greater heights. This robust steel deck consists alternately of an edged segment and a tubular section. As a result the distance between the segments/tubes is only 1-2 mm. In addition, slats can be replaced without having to interrupt the chain. The whole bearing surface for the chain is replaceable because of the fact that they are screwed to the undercarriage.

5 Tension station

- The chain is tensioned by means of 2 tension bearings mounted in the tensioning station. The bearings have a grease cartridge for 10,000 working hours minimum and therefore require very little maintenance.

6 Inspection doors to drum and belt mechanism

- Multiple inspection doors are located on each side of the bunker belt, for service and cleaning.

7 Ring seals and self-adjusting bearings

- Two ring seals reduce pollution between the side walls of the bunker belt and the drum. The shaft of the drum runs on self-adjusting ball bearings.

8 Door to bunker belt

- Inspection door with safety switch is located in one side to access the bunker belt.

Options.

Fill ratio indication

- Set of photo-electric cells indicating the fill ratio of the Drum Feeder.

Safety

- Vehicle safety barrier with an emergency pull switch.
- Fencing around the bunker belt.

Various

- Automatic chain lubrication via adjustable oil dispensers on both sides of the belt. The oil tank is placed above the floor.
- Working switch with feed back to the switch box to make the motors tension free.
- Elevated baffle, extra height from 500 mm and up, on one side of the bunker belt.

Bollegraaf. Drum Feeder (BDF).

To optimize the efficiency of your sorting installation, Bollegraaf has developed the BDF Drum Feeder. Together with a special version of the HBST steel belt conveyor with a 2000 mm high side wall (so-called Bunker belt) it forms a special feeder system that offers you the following advantages:

- Higher capacity of the sorting installation, because fewer empty/less high places on the feeder belt occur. The Drum Feeder ensures a constant, adjustable material flow.
- Better sorting quality. There are no more large piles present on the belt. As a result, the sorting units, such as screens, magnets, air separation and even hand sorting will not be overloaded in peaks and can provide optimum output at all times.
- Time-saving for the shovel operator, who, depending on the length of the Drum Feeder, only needs to fill the Drum Feeder a few times per hour.

- Any boxes are for the most part opened and flattened by the Drum Feeder.
- If the feeder system is not filled too high, large pieces of cardboard are torn into smaller pieces.

For easier loading of material into the system it can also be placed in a recessed or (concrete) pit.

For more information about this system, please contact our sales staff or visit our website, www.bollegraaf.com

See our Drum Feeder at work.



For a short introduction video of Drum Feeder, please visit our YouTube channel.