



BEUMER
technology in motion



Conveying technology Loading technology Palletising technology Packaging technology Sortation and distribution technology

BEUMER Heavy-Duty Belt Bucket Elevator
Conveying technology that gets the job done.
Efficient and safe.





BEUMER Heavy-Duty Belt Bucket Elevator
Your requirements – that's what drives us on.





Pioneer with know-how.

Since its foundation, BEUMER has substantially shaped technical development in the conveying technology sector and, with its conveying systems, can always offer you the right solution for your transport requirements.

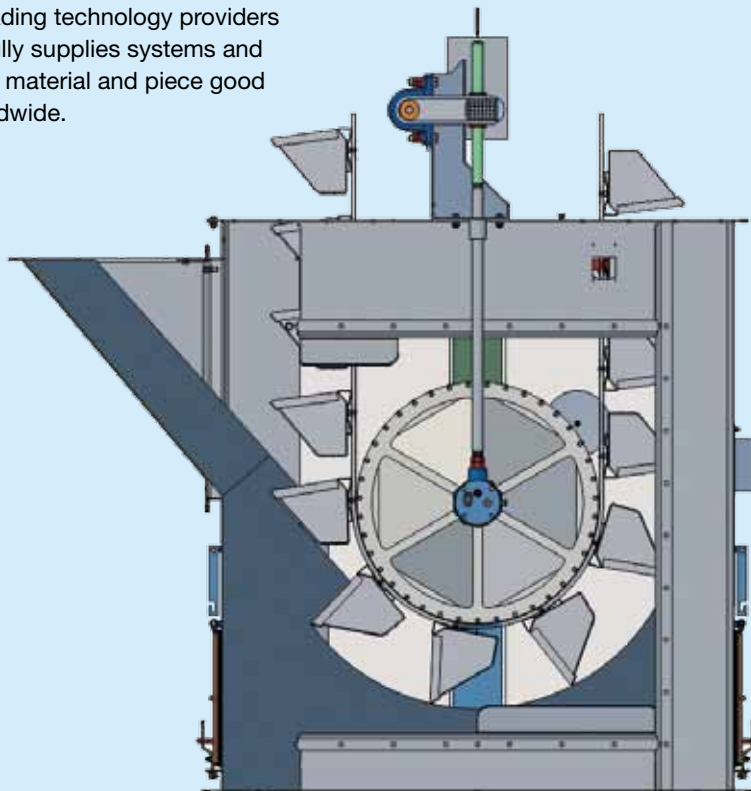


The BEUMER system solutions are as individual as the requirements in the conveying technology sector. We keep you satisfied with our technical expertise and always work with you to identify the right solution to transport your products quickly, safely and efficiently from A to B.

High flow rates. Long service lives. Maximum operational reliability.

As one of the leading suppliers of bucket elevators, BEUMER has done pioneering work in the field of high-capacity bucket elevator technology. Both chain and belt bucket elevators have proven reliability in thousands of installations under the most difficult and even extreme operating conditions.

Today the BEUMER Group ranks among the world's leading technology providers and successfully supplies systems and plants for bulk material and piece good transport worldwide.



BEUMER heavy-duty belt bucket elevator – always one step ahead.

With focus on the needs and requirements of heavy industry, we've developed the BEUMER heavy-duty bucket elevator.

There are many good reasons to put trust in us:

- higher nominal strength, up to 3,300 N/mm, thanks to the new heavy-duty belt
- high conveying capacities of up to 2,000 m³/h
- conveying heights of more than 150 m possible
- double service life of the belt compared to the chain
- less noise generation and smoother running of the conveyor, thanks to field-proven belt technology
- extended applications, thanks to reduced net weight and improved belt technology
- transport of highly abrasive materials with long running times possible
- transport of coarse-grained materials (grain size up to 120 mm) possible
- efficient filling by new geometric arrangement of the buckets
- optimised, tear-resistant bucket mounting at the wire-free zones without reduction of the nominal strength of the belt
- proven, secure belt clamping connection



Characteristics

BEUMER belt bucket elevator:

- for fine, lightweight material to be conveyed
- for large conveying heights

BEUMER chain bucket elevator:

- for coarse, heavy material to be conveyed
- for materials that require a very robust version
- for high temperatures

BEUMER Heavy-Duty Belt Bucket Elevator
We can handle heavy loads easily.

BEUMER heavy-duty bucket elevator:

- for sharp-edged, coarse and highly abrasive material to be conveyed
- for very high conveying capacities
- for large centre distances
- for a very smooth running





The solution for the rock and associated products industry.

The use of bucket elevators for the mechanical vertical transport has become an indispensable link to the production processes in many industries. BEUMER has decisively determined the technology of the versions used today by the practice-oriented development of high-capacity belt bucket elevators with belt or chain as traction element.

**BEUMER belt bucket elevators.
Reliable transport from the finest.**

BEUMER belt bucket elevators can especially be used to transport fine-grain materials.

Compared to pneumatic conveying systems, the energy consumption of mechanical conveying systems is many times lower – an advantage which allows

BEUMER to install bucket elevators, for example, in the cement industry for feeding heat exchanger kilns and filling cement silos the world over. And, in addition to low operating costs, reliability and long service lives, high conveying capacities and conveying heights of more than 175 m are advantages that will convince you.

Faster, higher, quieter – BEUMER heavy-duty belt bucket elevators.

The new BEUMER heavy-duty belt bucket elevator is tailored to the high demands of the market. Coarse-grained, sharp-edged and highly abrasive material with a grain size up to 120 mm can be easily transported. Thanks to the especially developed BEUMER steel wire belt, the heavy-duty belt bucket elevator can

handle large conveying heights and capacities up to 2,000 m³/h – and this with little noise. Whether used as a circulating unit behind the compressed-air cylinder press in the cement or iron industry, or for the transport of coal and related products, the heavy-duty belt bucket elevator fulfills all demands on a modern conveying system. An explosion-proof version can also be offered. These are facts that speak for themselves and which will strengthen your position on the market.





Applications for the BEUMER heavy-duty belt bucket elevator.

- Modification of existing chain bucket elevators subject to high wear
- Circulating belt bucket elevators for modern high-capacity grinding plants
- Feeding bucket elevators for raw material and clinker in front of grinding plants
- High-capacity belt bucket elevators for coal and other combustibles
- Long centre distances with high conveying capacities

BEUMER Heavy-Duty Belt Bucket Elevator
We know the limits – and overcome them.





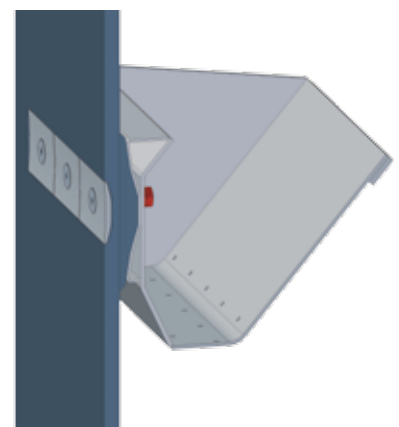
The essential in mind – BEUMER heavy-duty belt bucket elevator.

The new BEUMER heavy-duty bucket elevator impresses by its technical innovations. For example, the gap between belt and bucket – 25 mm at standard bucket elevators which make the transport of materials with grain size > 25 mm impossible – has been omitted. The result: Material to be conveyed can't get stuck between bucket and belt while it is picked up. This way the wear of the belt is reduced. The bucket elevator runs better and smoother, and the buckets won't tear off, thanks to the optimal bucket mounting on the back side of the belt. The buckets are fastened to the belt by segments and bolts.



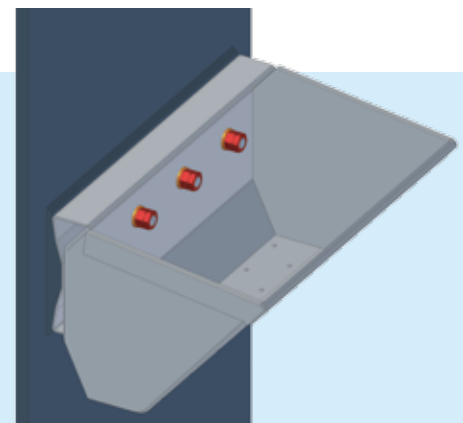
Not a burden on us – with the new heavy-duty belt.

We know the ever-increasing requirements of the market in the conveying technology sector and convince our customers with tailor-made system solutions. The maximum nominal strength of the standard belt of 2,500 N/mm has been increased to 3,300 N/mm, thanks to the new heavy-duty belt. In addition, the optimised, tear-resistant bucket mounting avoids the reduction of the nominal strength of the belt at unchanged temperatures of up to 120 °C. More strength for more economic efficiency.



Options of the BEUMER heavy-duty belt bucket elevator.

- Bucket with rubber bottom
- Dynamic bottom in the bucket elevator boot
- ATEX version for potentially explosive areas possible
- Rubber shaft casings for highly adhesive material to be conveyed
- Contactless, continuous belt position monitoring



Examples of well-known customers			
Customer	Task	Application	
Cargotec Bjuv, Sweden	• Two new deliveries for a ship unloading system in the harbour of Singapore	• Feeding coal to the silo plant in the harbour	• Capacity 1,100 t/h coal • HD-HGBW*, 2,000 × 56.2 m • HD-HGBW*, 2,000 × 57 m
Dyckerhoff Lengerich, Germany	• Modification of a central chain bucket elevator to a BEUMER heavy-duty belt bucket elevator	• Raw mill feeding • Grain size up to 80 mm • Moisture up to 18 %	• Capacity 500 t/h • HD-HGBW*, 800 × 21 m
HeidelbergCement Mahlwerk Mainz, Germany	• Modification of a round link chain bucket elevator to a heavy-duty belt bucket elevator	• Feeding of a clinker silo after unloading of inland waterway crafts	• Capacity 500 t/h clinker • HD-HGBW*, 800 × 50.404 m
Holcim Works Siggenthal, Germany	• Construction of a new coal bucket elevator	• Feeding of raw coal to the mill pre-bunker, ATEX version • Special corrosion protection	• Capacity 300 t/h raw coal • HD-HGBW*, 800 × 23.4 m
Lafarge Wössingen, Germany	• Modification of a central chain bucket elevator to a BEUMER heavy-duty belt bucket elevator	• Raw mill feeding • Grain size up to 80 mm • Moisture up to 6 %	• Capacity 800 t/h • HD-HGBW*, 1,000 × 39.3 m
Manikgarh Cement Churchgate, India	• Modification of a central chain bucket elevator to a BEUMER heavy-duty belt bucket elevator	• Roller press reject • Grain size up to 10 mm • Moisture up to 3 %	• Capacity 750 t/h • HD-HGBW*, 800 × 44 m

* BEUMER Heavy-Duty Belt Bucket Elevator



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BEUMER reserves the right to make modifications that serve technical progress.