

Mechanical Conveying Systems

Mechanical conveying systems for powder and pallet



Abrasive Materials



Materials which Fluidize or Liquefy



Hazardous Materials



Large Particles



Contamination-Sensitive Products



Products which Pack, Cake, Smear or Plug



Non-Free Flowing Materials



Free-Flowing Materials



Moist, Sticky Materials



Heterogeneous Mixtures



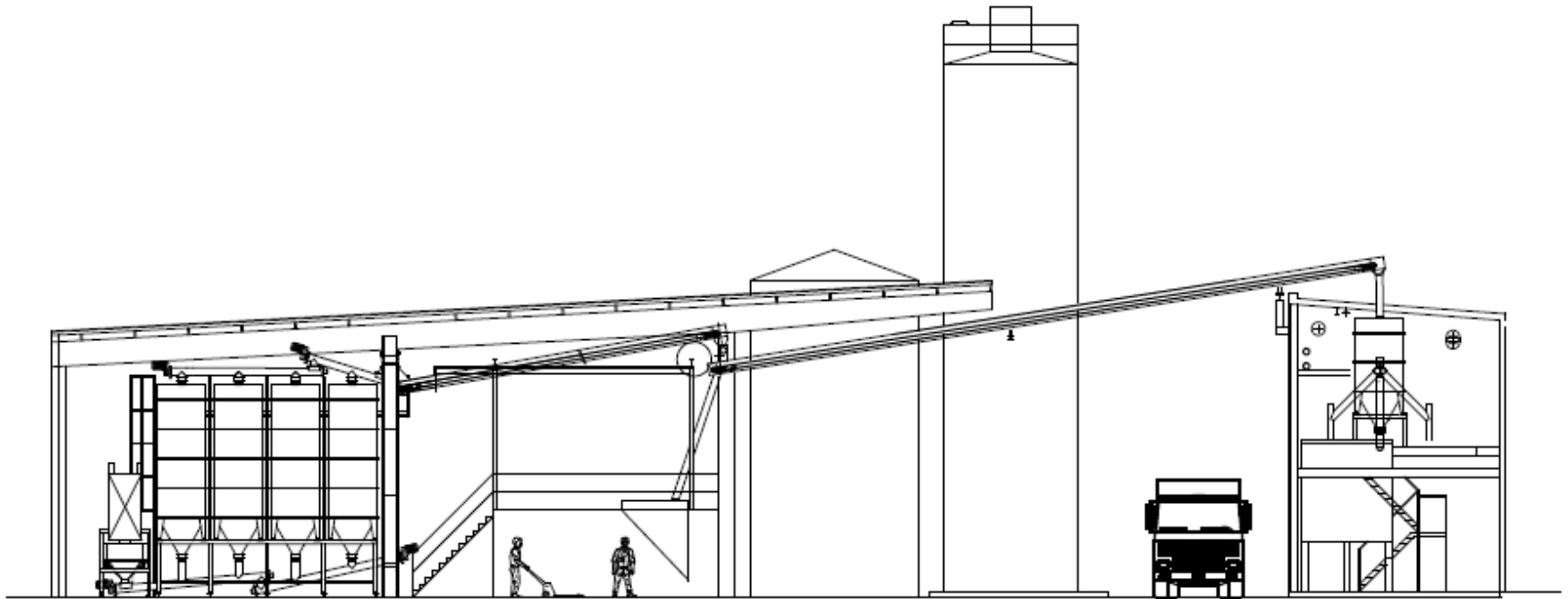
Friable Materials

**Innovative solutions, also for fragile
and abrasive materials**

Mechanical Conveying Systems

- **Customised systems.** Bergu Scandinavia AB operative principle is the planning, manufacturing, installing and commissioning of whole systems, specially designed to meet the requirements of the customer and the bulk material being processed.
- Product trials in our Test Centre are carried out to support selecting of components and process design.
- Consistent project management and scheduling procedures combined with comprehensive documentation are essential components for Bergu Scandinavia AB in connection with the successful handling of projects.
- Do you have any questions concerning our products or do you need further information. Don't hesitate to contact us!
- Telephone: +46 42 12 79 70
- Mail: rolf.bergu@telia.com

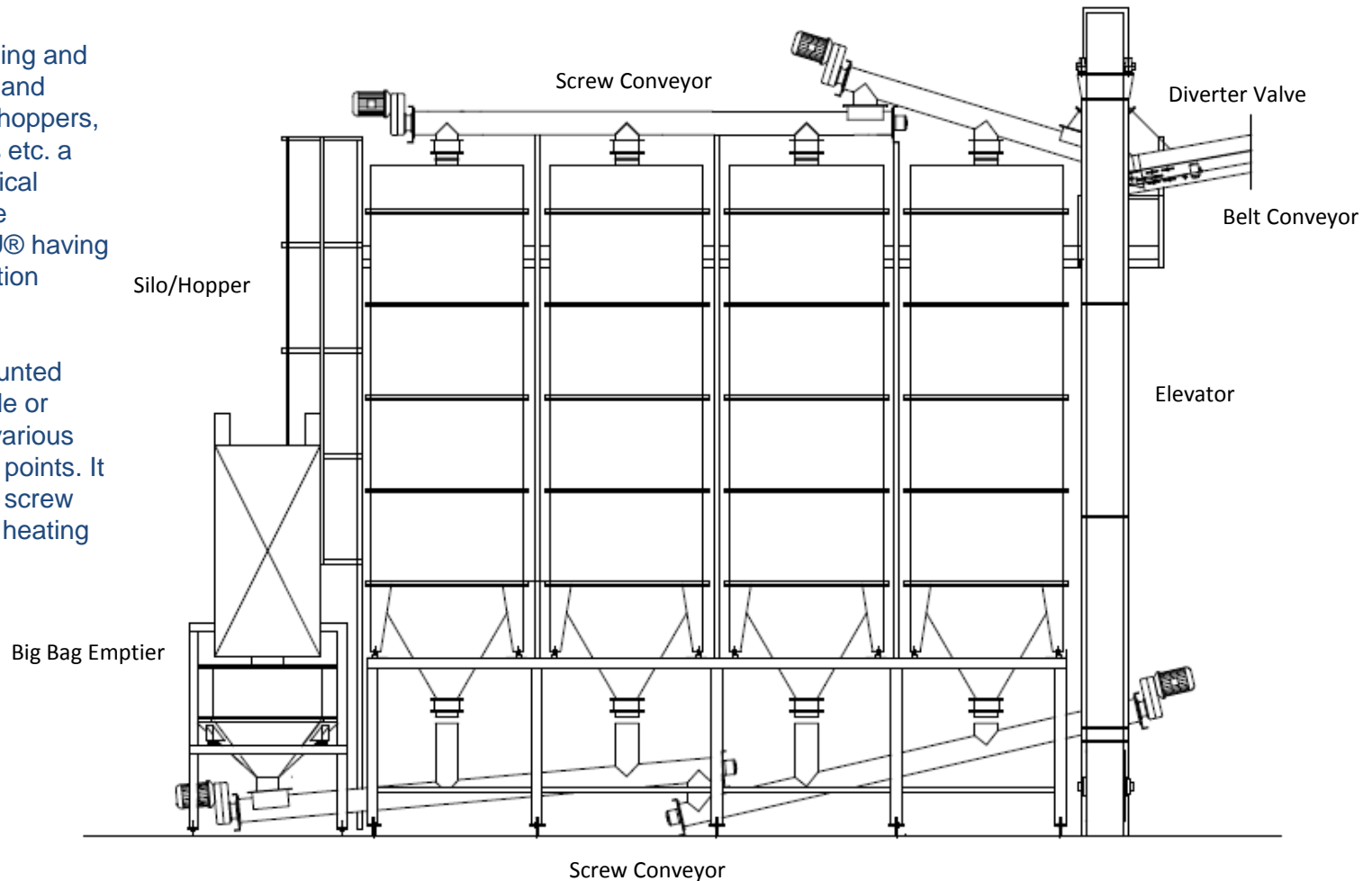
Mechanical Conveying Systems



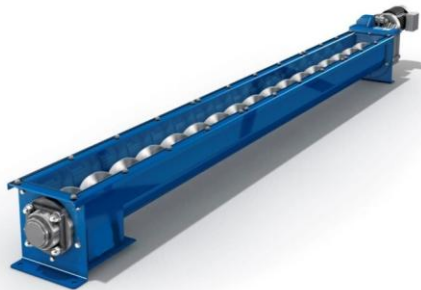
Mechanical Conveying Systems

For the discharge, dosing and conveying of powders and granulates from silos, hoppers, bag emptying systems etc. a wide range of mechanical conveying systems are available from BERGU® having many different application possibilities.

Conveyors can be mounted horizontally, at an angle or vertically from and to various loading and discharge points. It is also possible to use screw conveyors for cooling, heating and mixing.



Screw Conveyor



Screw conveyor series RS and US

RS and US have been designed for a constant transport of powder products and are available in 5 types with different diameters outside tube (168, 193, 273, 323 and 419 as standard and up to diam. 800).

The standard version normally consists of:

Carbon steel tube or stainless steel tube

Centre shaft with helical flight

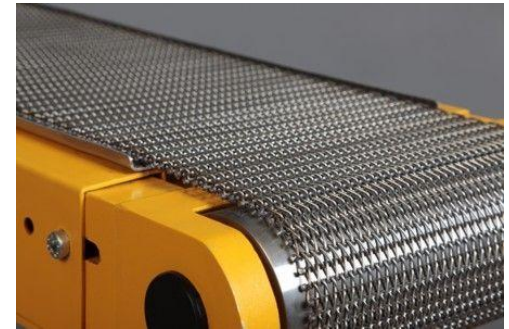
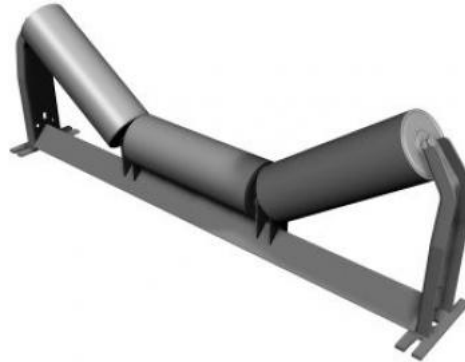
End- shield bearing and seal (packbox) for long life

Inlet-outlet

Motor/gearbox drive

For special cases and applications please contact our technical office.

Belt Conveyor



Bergu has a wide range of different types of belt conveyors

Bergu has its own knowledge for belt conveyors. We have a great know-how from sack handling to our Sack Emptiers. All from coffee beans in jute bags to different powders in plastic or paper bags.

We have also delivered a lot of belt conveyors for powder transport. All from wood pellets to sand and stones.

For special cases and applications please contact our technical office.

Bucket Elevator



Bergu Bucket Elevator type BE

BE-series Bucket Elevators are suitable for vertical conveying of fine aggregates, such as calcium carbonate, lime, limestone, sludge, sand etc.

In general, all dry materials having a particle size of less than 5mm can be handled provided they are non-abrasive, free-flowing, non-caking and show an angle of repose between 20° and 44°.

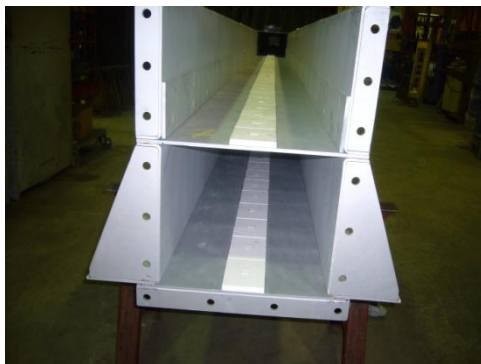
The material bulk density may vary between 0.4 and 1.8 kg/dm³. BE Bucket Elevators, which are characterised by low elevation speed (1.6 – 1.9m/s) and a low number of buckets per metre in standard.

Various options and solutions are available on request:

- ATEX II3D T4 certification
- 304 / 316 stainless steel
- High temperature-resistant (50 - 120 °C)

For special cases and applications please contact our technical office

Chain Conveyor for powder



BCC Chain or Drag Conveyors are designed for conveying dry solids such as free flowing powders, granules, pellets and flakes. The hot-galvanised flanged casing consists of a tail and a head section, as well as a number of modular intermediate sections. The tail and the head section contain the drag and the transmission roller. The design facilitates assembly and maintenance. The drive unit is coupled on the drag roller by means of a direct geared motor or a chain transmission.

Depending on the characteristics of the material handled and on the throughput rate required, the conveyor chain may be manufactured from blank and bent links or forged with pressed links.

The chain guide is manufactured from Aluminum oxid or manganese-steel depending on the application.

For special cases and applications please contact our technical office



Customised solutions for all conveying-applications

Bergu Mechanical Conveying Systems:

- **low operating costs**
- **continuous or batch**
- **reliable and robust**
- **dust-free and hygienic**
- **automated operation**
- **very gentle conveying with minimal abrasion or breakdown of the product.**
- **no segregation of the material during conveying**
- **economic performance**
- **easy to clean and maintain**