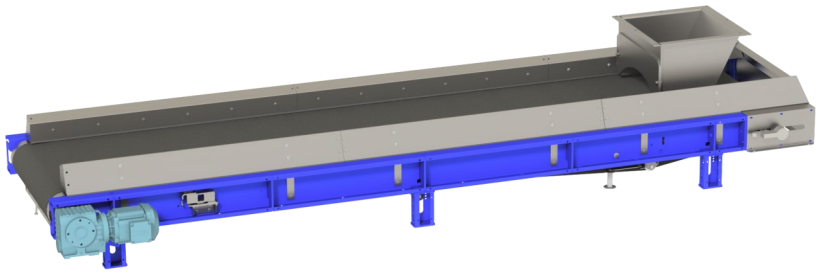


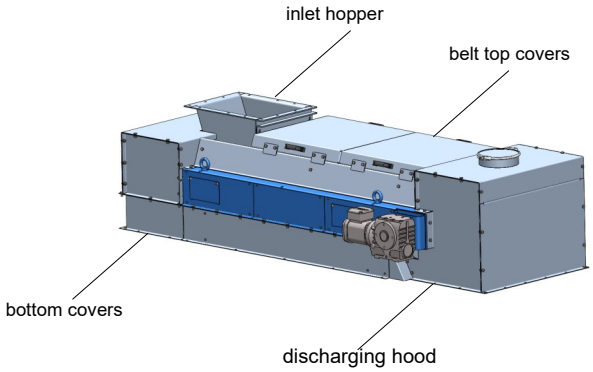
DESCRIPTION

The DTC belt weighfeeder is used for a continuous **gravimetric** dosing of materials with medium or high bulk density. The device has been designed for work in difficult conditions (e.g. cement, chemical, fertilizer or lime industry).

The material is extracted directly from a silo with use of **inlet hopper** and then it is transported to weighing area under the belt. The weight is measured using two load cells. The **gravity take-up** extends the belt's lifespan and improves measurement accuracy, while **scrapers** (internal and external) clean the belt from material residue. The DTC weighfeeder is also equipped with **assembly that prevents belt deviation**. Thanks to the use of various inlet hoppers, the weighfeeder is suitable for different materials, both well- and hard-flowing.

The DTC model is made of carbon steel powder-painted to RAL5005 colour, painting thickness of 80 [µm]. Selected elements can be made of stainless steel. Inlet hoppers in special execution can be used for very dusty materials and materials that easily aerate with tendency for uncontrollable flow.

OPTIONAL WEIGHFEEDER'S COVERS:



SPECIFICATION

- High feeding accuracy: **±0,5%** of set value
- Belt width: **650**, **800**, **1000**, **1200** or **1400** [mm]
- Axle distance: from **1500 to 8000 [mm]** (every 500 [mm])
- Gravity belt take-up
- Belt auto-centering system
- Work at ambient temperature between **0 and 50 °C**
- Belts made of rubber or PVC plastic
- Belt speed control with use of a frequency inverter

FEED RATES

- **Up to 1000 [t/h]** (at bulk density of 1,6 [kg/l])
- Turndown ratio: **1:10**
- Change of shear gate level in inlet hopper increases the turndown ratio.

MEASUREMENT SYS-

- The scale is based on **two** C3-class **load cells** made of stainless steel or aluminium, with IP68 protection class.
- **Belt speed sensor** located inside feeder's gearmotor or at the driven pulley.

CONTROL SYSTEMS

Material flow measurement:

- 1020
- SGM800
- FLEX 2100/FLEX

Continuous and **batch** feeding:

- FLEX 2100/FLEX

OPTIONS

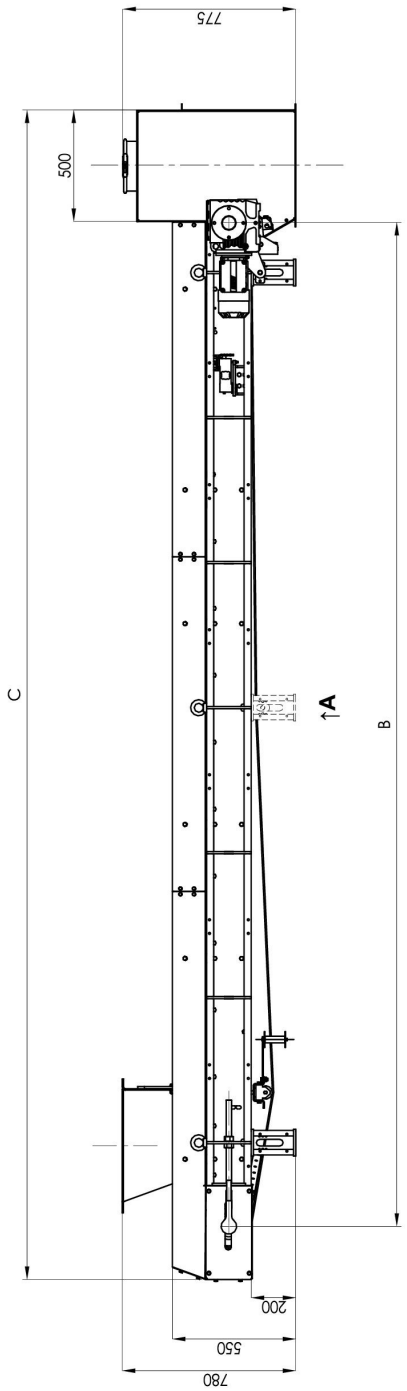
- Vibrating hopper
- Ability to control the prefeeder
- Belt deviation control
- Belt slip control
- Execution for Ex-zones
- Belts made for materials with temperature up to 170 °C
- Various inlet hoppers prepared for different material characteristics
- Turndown ratio: 1:20 or 1:50

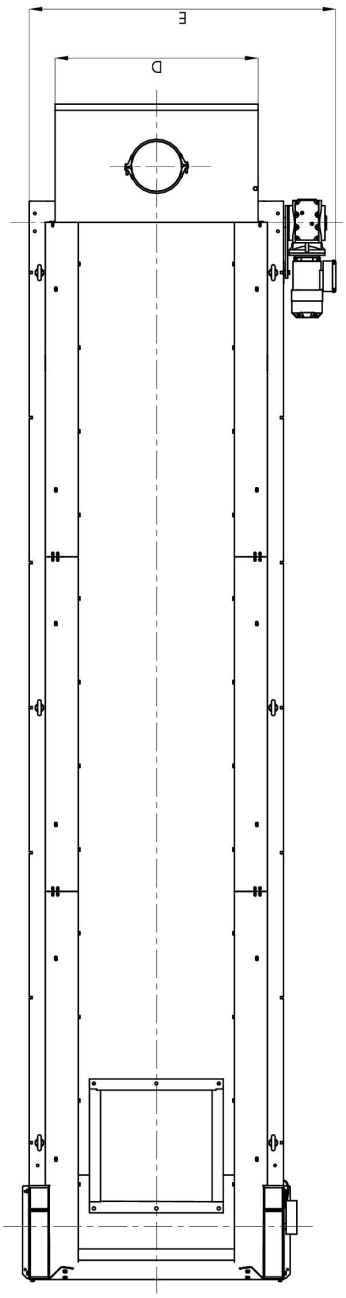
APPLICATION

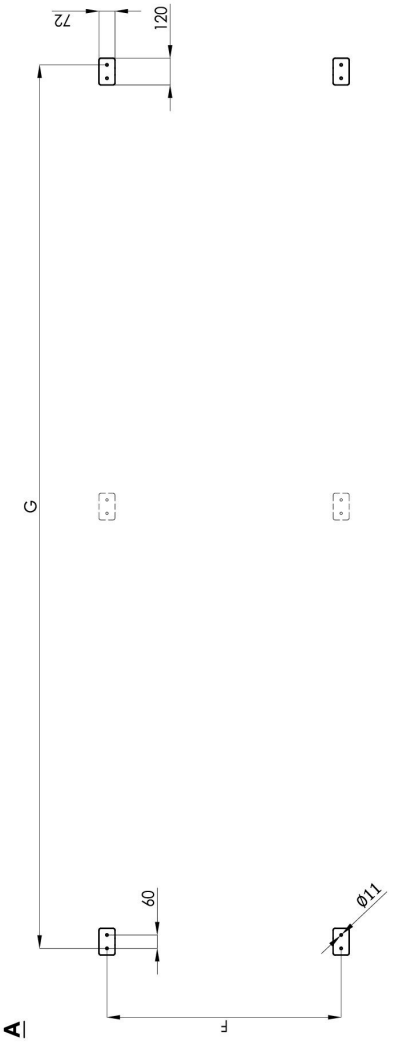
Solution preferable for:

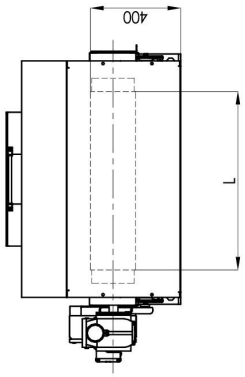
- massive material in form of lumps (e.g. lignite)
- medium-flowing material (e.g. soda)
- difficult-flowing material (e.g. clay)
- material that easily aerates with tendency for uncontrollable flow (e.g. gypsum)
- highly abrasive material (e.g. quartz sand)

DIMENSIONS









Belt width L	Belt lenght B	C	D	E	F	G
650	1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000	B+700	760	1225	900	B-450
800		B+700	910	1375	1050	
1000		B+900	1110	1575	1250	
1200		B+900	1310	1775	1450	
1400		B+900	1510	1975	1650	