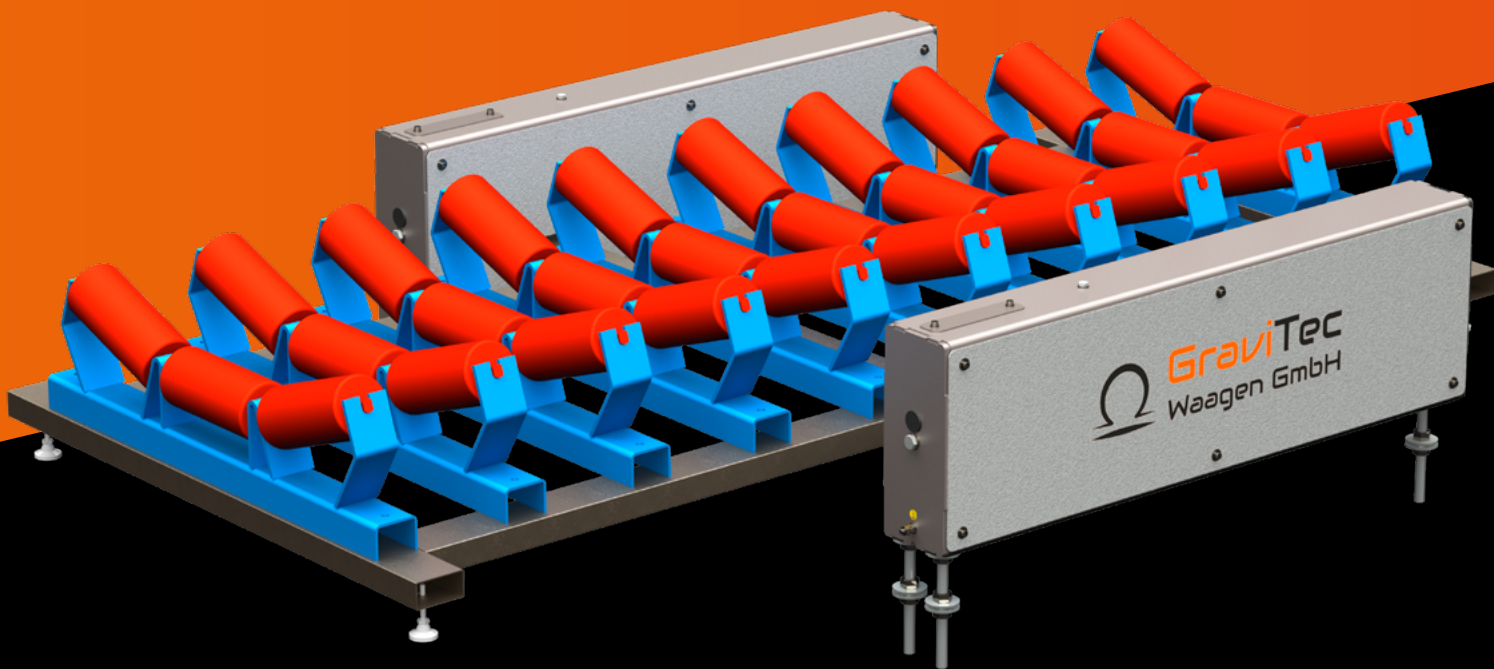


GT-BC

30 YEARS OF EXPERIENCE



MADE IN GERMANY



CONVEYOR BELT SCALE

Robust, reliable and multifunctional:

high precision, continuous weighing, dosing and loading of bulk solids

GraviTec – CONVEYOR BELT SCALE

We offer the perfect solution for continuous industrial **weighing of bulk solids of all kinds**. Highest measurement accuracy, maintenance-free and extremely durable – offered by **GraviTec conveyor belt scales**!

We develop, manufacture and assemble high-precision industrial weighing systems for **static as well as dynamic applications**. Commissioning on site are offered on request. Our robust designs can be **retrofitted** in almost **any conveyor system**.

The support can be realised as required on the existing frame construction or directly on the hall floor.

The **conveyor belt scale GT-BC** is suitable for a wide range of applications, which require **precise weighing**. **Conveyor belt scales** of the **GT-BC6** and **GT-BC3** series are suitable for a wide range of bulk solids weighing and dosages in which **additionally an horizontal conveyor path** is required. In addition material flows in the production process can be monitored and regulated.



TECHNICAL DATA CONVEYOR BELT SCALE TYP GT-BC

ATTRIBUTE	VALUE
Transported media	Bulk solids such as gravel, sand, stones, building materials, agricultural products, glass breakage, food, scrap and much more
Load carrier	Weighing unit - DMC (Dynamic Motion Control) version
Measuring range / surface weight	Up to 1000t/h
System-accuracy	Up to 0,1 % of absolute value (depending on version)
Width of measuring bridge	100 mm - 3500 mm
Overall dimensions (L x W x H)	Depending on chosen size and measuring bridge width
Weight without packaging	Depending on chosen size and measuring bridge width
Operating voltage	24 V DC
Materials	Stainless steel and coated steel
Sensing element	2x DMS-load cells
Nominal load of sensing element	Depending on flow
Overload protection	Up to approx. 250 %
I/Os	PROFIBUS® PROFINET® Analog output (further options on request)
Supply voltage	230 VAC with conversion to 24 VDC (further options on request)
Operating temperatures	-30°C up to +50°C
Operating conditions	In- and Outdoor
Transport requirements	General guidelines for normally sensitive machine parts apply
Storage requirements	Dry, indoors

Function

The continuously conveyed material flow applies a load to the weighing section of the conveyor belt scales. The weight load is weighed via two precision load cells.

Due to its **special construction**, the structure of the weighing section guarantees a **very high measurement accuracy**. The **belt speed is recorded** via speedometer generator mounted to the deflection drum. The weighing electronics mounted subsequently, determines the flow rate (kg/h or t/h) based on material weight on the weighing section and the belt speed.

Special Features

Interference based on friction or changes in belt-respectively strand-tension are **compensated due to the special design and therefore have no impact on accuracy**.

FIELDS OF APPLICATION

Versatile & compatible

- Mining and quarrying products
- Building materials
- Sand and gravel
- Cement
- Wood and energy carriers
- Agriculture goods
- Feed
- Food
- Glassware
- Waste and recycling material

THE FOLLOWING SIZES ARE AVAILABLE AS STANDARD:

STANDARD SIZES	MEASURING SECTION LENGTH	SYSTEM-ACCURACY	DYNAMIC ACCURACY
GT-BC3-15	1500 mm	± 0,4 %	up to ± 0,9 %
GT-BC3-20	2000 mm	± 0,4 %	up to ± 0,8 %
GT-BC3-30	3000 mm	± 0,4 %	up to ± 0,7 %
GT-BC6-15	1500 mm	± 0,1 %	up to ± 0,3 %
GT-BC6-20	2000 mm	± 0,1 %	up to ± 0,25 %
GT-BC6-30	3000 mm	± 0,1 %	up to ± 0,2 %

(all values may vary based on specific implementation and equipping)

GraviTec

CONVEYOR BELT SCALE

Your Benefits

Conveyor belt scales are primarily used for **measuring and recording** the conveying flow rates of bulk solids of all kinds. However, they may also be used for control of upstream and downstream process stages. Due to our high-precision measurement, **improved process monitoring and savings** in important **raw materials and energy** are enabled.

Universally applicable measuring system for **fast, reliable and continuous weighing** of bulk solids such as building materials, granules, fibres, feed, food or scrap.

Suitable for various applications

- Quick and easy installation
- Robust and precise
- For conveying capacities up to 1,000 t/h
- Spread widths > 2.5 m applicable
- Individually customizable

Applicable in all areas

- Maintenance-free
- Retrofittable in existing plants

Special designs

- System accuracy up to $\pm 0.1\%$
- Individual solutions up to 1000 t/h

Ready to use ex works

- Delivered ready for operation as it is already adjusted in our production plant
- Installation and commissioning on site without support of external service providers possible

Versatile and scalable

- Continuous weighing from moist to solid goods as well as from fine to coarse solids
- Various high-performance sizes available with slim designs for compact conveyor systems
- Individual measuring-widths and -sections applicable
- Weighting cell with transportation- and overload-protection
- Very high accuracy
- Insensitive to vibrations and contaminations

We look forward to receive your requests!

NEW:
Attractive
Leasing Offers

CONTACT

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**We are looking forward for your call,
we will be happy to assist you.**

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www.GraviTec-Waagen.de