

Volume measurement with *Linecube*®

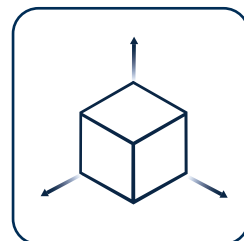


DWS-System

- ▶ Dimensioning
- ▶ Weighing
- ▶ Scanning

Dynamic measurement of freight

- ▶ Weighing and measuring in a single process
- ▶ Non-contact volume detection by line laser
- ▶ Quick and accurate weight determination
- ▶ Integrated bar code reading system for the top of the carton
- ▶ Obtains dimensional and weight data for calculating the volumetric weight
- ▶ Two conveyor belts with weighing function and adjustable transport speed up to 1 m/s
- ▶ Max. Volume measuring range (LxWxH): 1800x640x500 mm with a resolution of 5 mm
- ▶ Weighing range up to 100 kg with a graduation of 20 g
- ▶ Direct transfer of data to a PC with a visualisation of objects
- ▶ Optimising shipping and packaging planning
- ▶ Fields of application:
 - Planning the freight volume of vehicles
 - Package sorting
 - Storage volume optimisation
 - Calculation of the volumetric weight



Volume measurement with *Linecube*®

Accurate master data at all times

Modern freight recording requires the optimisation of warehousing and shipping. Rising transport costs increase the importance of precise information about the weight and dimensions of packages.

Dynamic cargo measurement

The *Linecube*® volume and weight measuring system is used to determine the weight and dimensions of packages. A high-quality line laser ensures exact parameterisation. While it scans the packages and determines the volume, they are simultaneously weighed and the resulting volume weight is calculated from these values. This data (L x W x H) simplifies transport planning and improves the use of space in transport vehicles. Simultane-

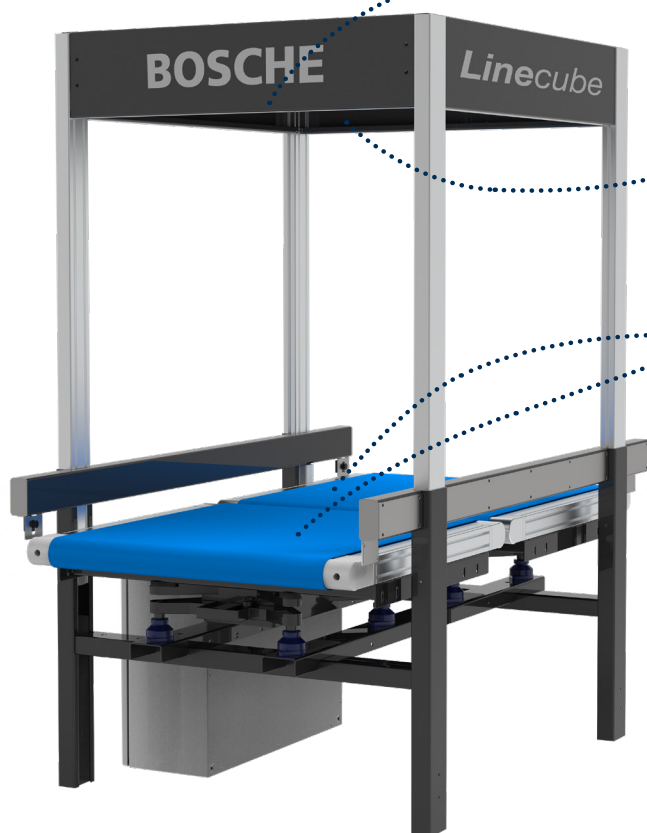
ously, packaging, storage and shipping planning can be optimised.

Conveyor belts with integrated scales, which have a speed of up to 1 m/s, are used as a transportation means. This makes the measuring and weighing process simple and efficient. It is ideal for companies with medium and high shipping volumes. Optionally, each package can be documented by photo.

Data transfer

The determined volume and weight data can be stored as a CSV file in higher-level IT systems via WLAN. Alternatively, they can also be transferred to an SQL database.

► TECHNICAL DETAILS



► Camera-based code laser reads a variety of 1D-2D codes:
Advanced Auto-Ident solution

► The object to be measured is scanned by a line laser, whereby a 3D image of the package is determined.

► Both conveyor belts are equipped with a scale. The weight is determined on the fly, i.e. without stopping the conveying process.

► Principle of measurement

