

Dynamic weighing scales & volume measurement

Weighing and measuring without belt stop



- ▶ Modular system components
- ▶ Flexible integration capability
- ▶ Verifiable according to OIML R 51 and R 129
- ▶ High belt speeds, fine resolution
- ▶ 5 Application programs



Dynamic weighing

Soehnle Professional has enhanced its tried-and-tested industrial weighing technology for the special requirements of continuous weighing and has re-certified it with a much finer calibration value. Soehnle's offer ranges from the supply of weighing components to complete solutions with weighing technology, conveying technology, control and volume measurement systems. Your advantage: You get everything from a single source!

Rationalization potential for your company

The usual procedure for statically weighing goods is not efficient when large quantities of goods have to be weighed in incoming goods, in the production process or in shipping within the material flow. Stopping the weighing material on the scales is time-consuming and labour-intensive when conveyor technology is used, and is therefore cost-intensive. The operating procedure becomes more efficient if the determination of the weight value takes place in a dynamic state, i. e.:

- ▶ Weighing without belt stop
- ▶ Conveyor, control and weighing technology from a single source
- ▶ Flexible integration capability and network connection through different bus or serial interfaces
- ▶ Can be integrated into existing production lines and conveyor systems
- ▶ High belt speed up to 2 m/s
- ▶ Weighing ranges: From 3 to 3,000 kg
- ▶ Readability from 1 g
- ▶ Resolution up to 3,200 verifiable digits
- ▶ Approved as automatic weighing instrument according to Automatic catch weigher, Automatic check weigher, Automatic weight labeler, Automatic price labeler and Automatic postal scale according to OIML R51-1
- ▶ Accuracy class XIII (1) or Y (a); XIII (2) or Y (b)
- ▶ Verification scale interval $e \geq 1$ g
- ▶ Multi-range scales
- ▶ Temperature range - 15°C.... 40°C
- ▶ Measuring of the cargo with volume measurement technology and image capture

A worthwhile investment

An important precondition for the success of a system is its economic efficiency. Due to the many rationalization possibilities, dynamic flow weighing systems pay for themselves in the shortest possible time. After a detailed analysis of your requirements, our project engineers will tell you about your savings potential.

There are already many examples of solutions available

- ▶ Letter weighing
- ▶ Volume and weight recording in the cargo and cargo area
- ▶ Calculation of freight costs in the logistics area
- ▶ Completeness control for prepackages (filling quantity control)
- ▶ 100% control e. g. during injection moulding, assembly and packaging processes

5 Application programs

- | | |
|-----------------------------|--|
| 1. Weighing and taring | > Pure weight determination |
| 2. Totalizing | > Summing up weights in a totalizing memory
> Weight recording with totalizing function |
| 3. Checking | > Pass/fail control
> Comparison of the determined weight with the target weight |
| 4. Filling quantity control | > Checking according to TU/TO in statistical functions according to prepackage regulation |
| 5. Classifying | > Classification into 5 weight classes
> Adding up the total weight with a class assignment |

Standard modules



Ordering information

Order number	Weighing capacity kg	Division g	Dimensions mm	Conveyor speed with 50 Hz	Configuration
9715.00.001	1.500	500	1.800 x 900 x 400	0,2 m/s	lacquered
9711.00.001	60	20	1.600 x 1.000 x 800	0,2 m/s bis 2 m/s	lacquered
9710.00.001	3	1	600 x 400 x 800	0,2 m/s bis 2 m/s	lacquered

Functionalities

- ▶ Specially developed high-resolution filter technology for dynamic weight determination
- ▶ Highly-developed scale conveyor for trouble-free and fast weight determination
- ▶ Control logic function for separation
- ▶ Stop function for overlength parts
- ▶ Length measurement
- ▶ Speed measurement and monitoring
- ▶ Double belt solution for static weighing
- ▶ Data concentration for weight values and product identification
- ▶ Alibi memory with product identification, subsequent overlapping data backup
- ▶ Outputs for pusher when using pass/fail control or classification

Communication

- ▶ Flexible integration capability and network connection through different bus or serial interfaces
- ▶ Variable communication options, such as data transmission incl. CRC for external alibi backup
- ▶ XML interface [Customized protocol]

Offer / Options

- ▶ Highly flexible integration capability, 100% adaptable to customer requirements
- ▶ Economical solutions through cost-effective strain gauge weighing technology
- ▶ From the basic version to the complete solution with an individual, modular structure of weighing, conveying and control technology
- ▶ Continuous weigher in painted steel or stainless steel version
- ▶ Infeed and outfeed technology
- ▶ Pusher or tilt band
- ▶ Control cabinet for conveyor control system
- ▶ Vibration elements
- ▶ Barcode capture / RFID
- ▶ Camera for digital images
- ▶ Measuring of the freight units with volumetric measuring technology according to OIML guideline R129

Dynamic volume measuring system 9750

Active optical laser system for two-dimensional scanning and automatic detection of the volume of objects in the goods receipt, production, picking and dispatch area according to OIML R129.

- ▶ The Soehnle Professional volumetric measuring system 9750 works according to the principle of phase delay measurement. A laser beam scans the measured object and the data is registered in the receiver. The measured distance points and the transport speed are used to calculate a three-dimensional image of the object in real time. The software thus determines the volume information: Length, width and height.
- ▶ The reading system with evaluation unit, incremental encoder and data concentration, which combines weighing, volumetric and detection data, completes the measuring system.

Features

- ▶ Applications: Volume measurement, object identification
- ▶ Laser protection class 2
- ▶ Electrical supply: 24 V DC \pm 15%, max. 90 W
- ▶ Data interfaces: RS 232, RS 422 (adjustable), Ethernet interface
- ▶ Temperature range: 0°C to 40°C
- ▶ Minimum size for objects: L 50 x W 50 x H 50 mm, in any form
- ▶ Object size/division: Length: 50-2,000 mm/5 mm
Width: 50-1,000 mm/5 mm
Height: 50-1,600 mm/5 mm
- ▶ Scope of delivery: optical laser system, evaluation electronics, data concentration and software
- ▶ Speed: 0.5 m/s to 2.0 m/s



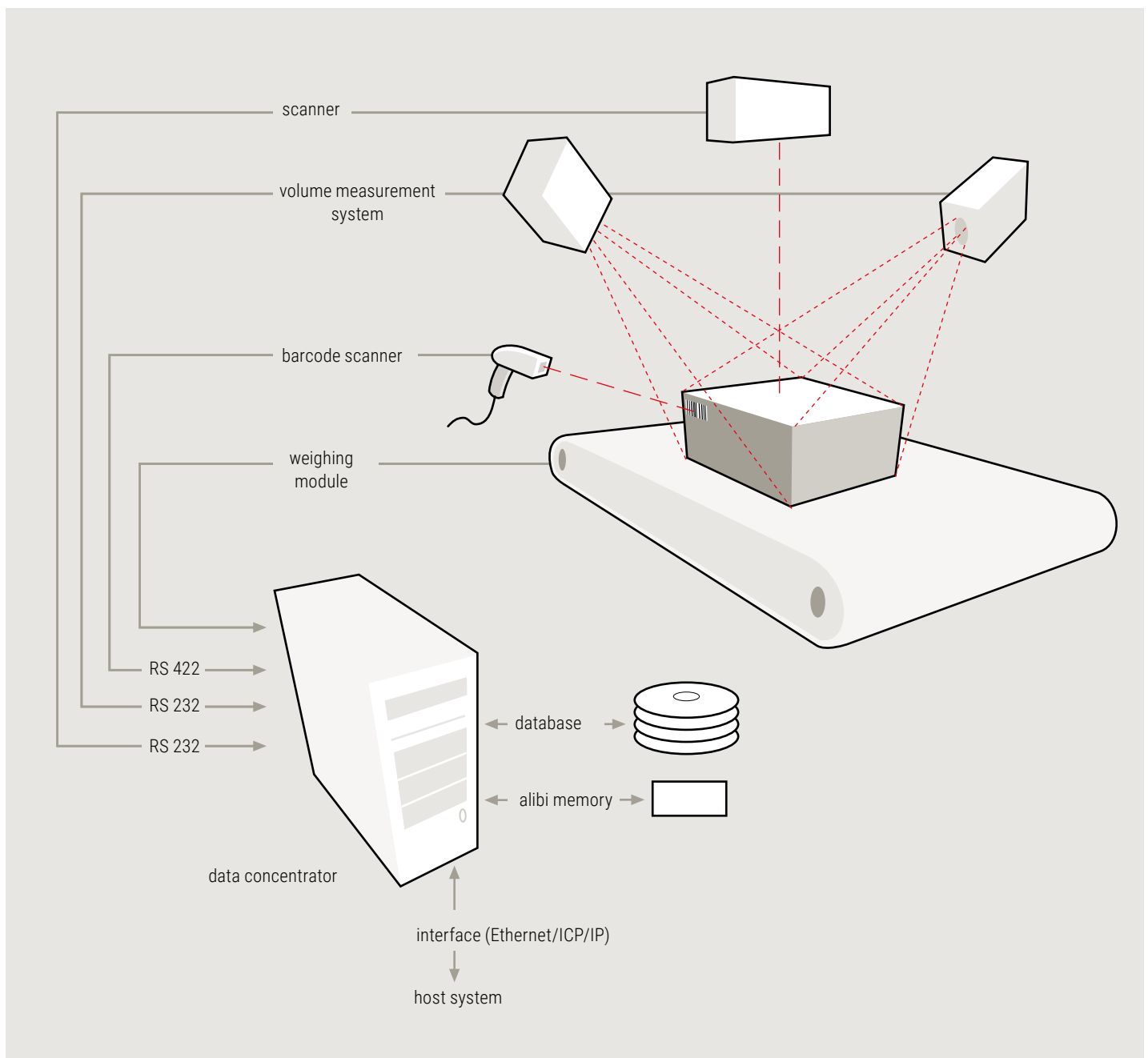
Volumetric measuring system 9751

- ▶ Less expensive alternative to 9750
- ▶ Light grid frame (transmitter/receiver principle)
- ▶ Integration in band gaps
- ▶ Cubic and irregular objects
- ▶ Object dimensions min. L 50 x W 50 x H 5 mm to max. L 2,600 x W 1,200 x H 1,200 mm
- ▶ Verifiable according to OIML R129

Data concentrator with interface software

- ▶ The data concentrator with interface software can be integrated into an existing volume measurement system. The dimension and weight information generated from the measurement process as well as the barcode coded in the package label are transferred to the concentrator via the RS 232 and RS 422 interfaces.
- ▶ The concentrator collects, prepares and transfers the information from the measurement system to the host system.
- ▶ For identification, the packages must be provided with a unique barcode. The system has two alternative sources for barcode scanning: an Omniportal reader (OPS) and a handheld scanner for manual scanning.

Scheme for continuous weighing, volume measurement and data concentration



We will prepare an individual offer for you!

Simply download our checklists at www.soehnle-professional.com > System solutions. Answer the questions that we need for an individual preparation of your offer. Save your entries or print out the questionnaire and send it comfortably by e-mail, fax or letter to our address.

Soehnle Industrial Solutions GmbH

Gaildorfer Straße 6

71522 Backnang

Phone +49 7191/34 53-220

Fax +49 7191/34 53-211

E-Mail info@sis.gmbh