

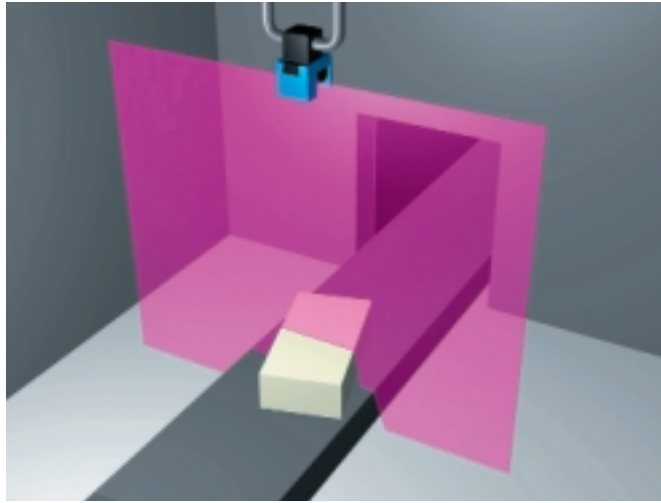


**Setting standards systematically.
VMS 100/VMS 200
Volume Measurement Systems.**

SICK

Standard systems for determining the volumes of parcels and freight

Parcels and pallets, flight baggage and air freight containers are examples of objects for which manual volume assessment is relatively imprecise, difficult and sometimes even impossible. Reliable measurement with rapid transport speeds, complex geometries, and the most varied of dimensions is thus an important performance feature of automatic volume measurement systems. As loads are increasingly limited by the volume of freight, loading processes and freight handling can be fundamentally improved when data on the volumes of the freight objects are available.



Volume measurement systems from SICK: the system scans the transported objects and calculates the volume data.

Whether for high-bay stackers, truck and container loading, or the classification of freight – SICK VMS 100 and VMS 200 Volume Measurement Systems offer standard solutions that meet your requirements for automatic volume determination.

The benefits:

- Volume data in real time
- High transport speeds of up to 2 m/s
- Robust laser sensors
- Integration of e.g. bar code scanners possible
- No spatial interruption of transport system necessary for VMS 100 and VMS 200
- User-friendly operating software

VMS at a glance:

- Non-contact, active measurement process using SICK LMS 200 Laser Measurement Systems
- Object lengths of up to 7500 mm

VMS 100

- One-scanner system
- Measurement of rectangled objects

VMS 200

- Two-scanner system
- Measurement of objects of any shape: output of box volume and real volume
- Width and height of objects up to 3000 mm
- Expanded options for data processing and data output

Systems for your application



VMS 200: Determining the volume of air freight with irregular contours.

VMS 100: Determining volumes for automatic storage.



SICK Volume Measurement Systems

VMS 100: one-scanner system



VMS 200: two-scanner system

Technical Data

	VMS 100	VMS 200
Object shape	Rectangled	Almost any shape*
Min. object size (L, W, H)	200 mm x 200 mm x 100 mm	100 mm x 100 mm x 100 mm
Max. length	7500 mm	7500 mm
Max. width	1500 mm	3000 mm
Max. height	1500 mm	3000 mm
Typical min. object separation	> 100 mm	
Transport speed	Up to 2 m/s, constant or variable Shaft encoder available on request	
Typical accuracy (L, W, H)	For minimum object size of 200 mm x 200 mm x 200 mm	
up to 1 m/s	± 15 mm, ± 15 mm, ± 15 mm	± 10 mm, ± 10 mm, ± 10 mm
up to 2 m/s	± 25 mm, ± 20 mm, ± 20 mm	± 15 mm, ± 15 mm, ± 15 mm
Output data	Length, width, height	Length, width, height box volumes real volumes angle of rotation index and bar code data on connection of a bar code scanner
Data output interface	RS-232 or RS-422 Connection to bus systems on request	
LMS 200 enclosure rating	IP 65	
Laser protection class	1 (IR light)	
Measurement principle	Time-of-flight measurement with SICK LMS 200 Laser Measurement System	
*The dimensions of object details must be at least 50 mm x 50 mm x 50 mm		

Constituents of VMS complete solutions

VMS 100

- 1 x LMS 200 Laser Measurement System with mounting set and connection set
- 1 x LMI 200 Laser Measurement Interface with evaluation and commissioning software
- Software licence

VMS 200

- 2 x LMS 200 Laser Measurement System with mounting set and connection set
- 1 x industrial PC with evaluation and commissioning software
- Software licence

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Branch offices and representatives in all major industrial countries.

The SICK logo consists of the word "SICK" in a bold, blue, sans-serif font. The letters are closely spaced and have a slight shadow effect.