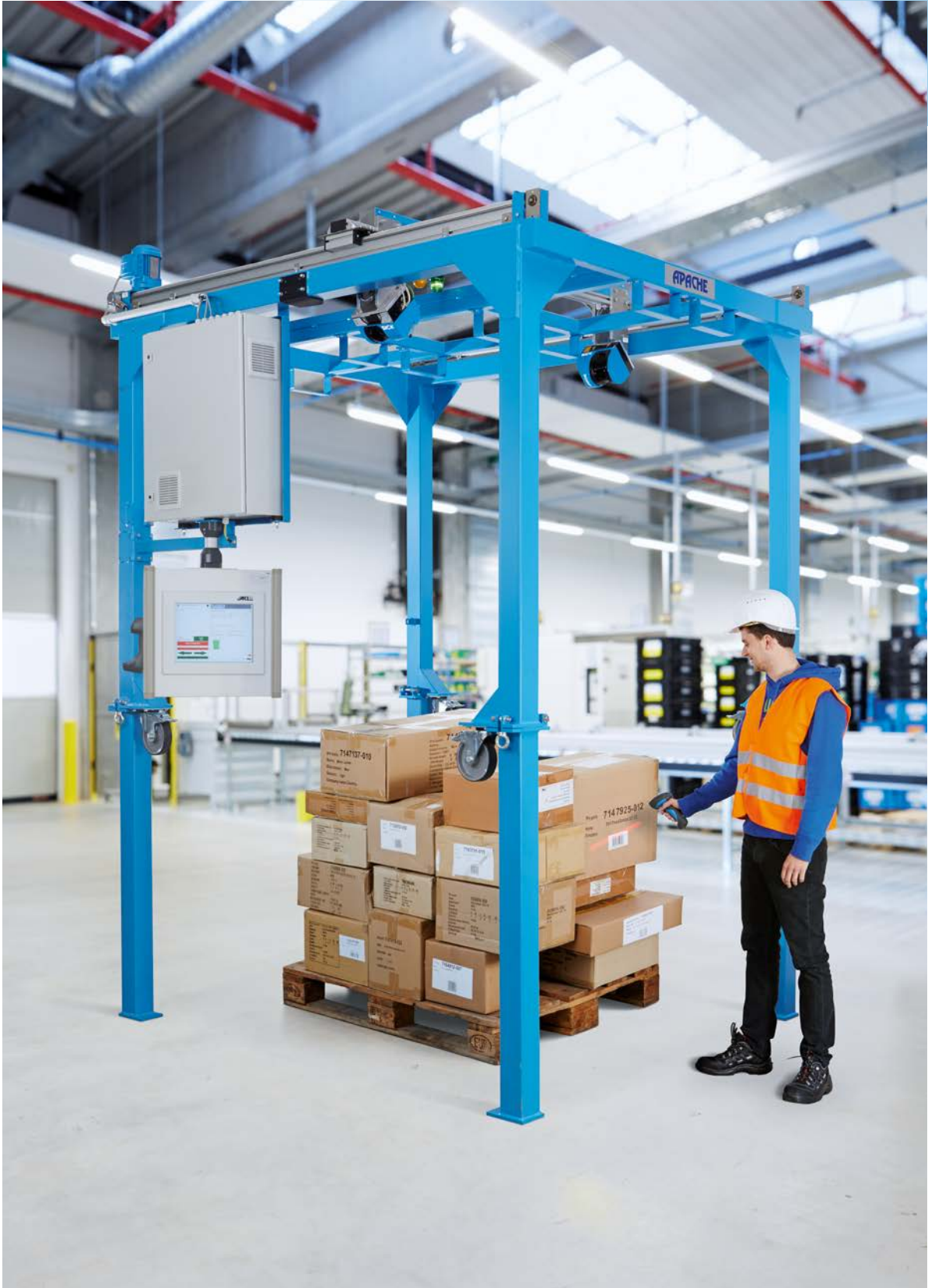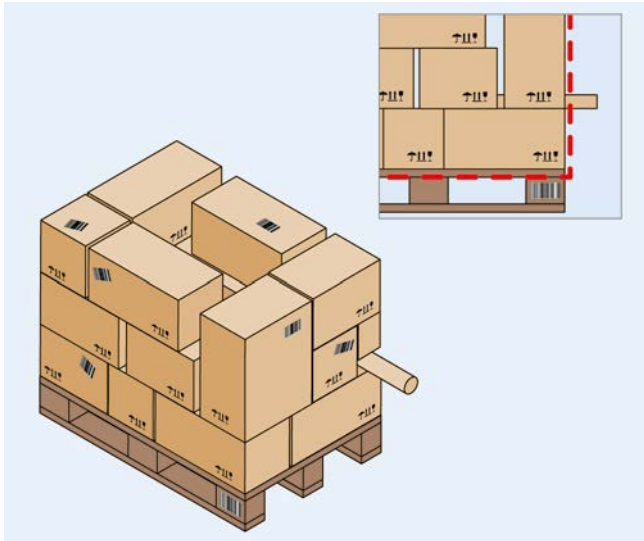498,5 kg

DWS Pallet

MEASURING AND WEIGHING PALLETS AND OTHER BULKY FREIGHT ITEMS

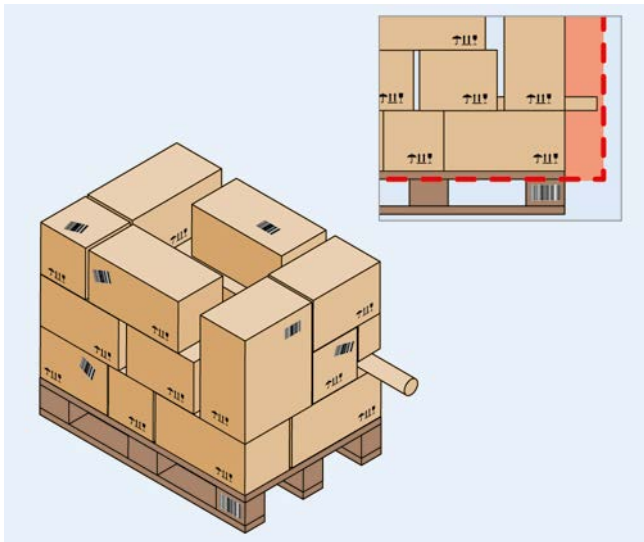**Track and trace systems**

SICK
Sensor Intelligence.

PRECISION THAT PAYS OFF

Pallet measurement without detecting protruding objects

Pallet measurement with object protrusion detection by the DWS Pallet

In modern storage area and transport planning, there is no longer any room for imprecise values. Precisely bulky and large-volume freight goods incur additional storage and transport costs for logistics service providers (because of increased space requirements due to protruding parts, for example). If this additional volume is not identified, additional costs cannot be passed on accordingly. Only the exact, transparent determination of object dimensions, including any protruding parts, provides the actual space requirements for the freight, which can then be billed accordingly.

The DWS Pallet track and trace system supports freight service providers and carriers, as well as airline companies, in detecting freight for which the declared volume figure was underestimated. The actual freight volume is calculated based on the determined values for volume and weight, and is stored and made available as a calibrated data record. This results in substantial additional revenue. DWS Pallet provides freight data for delivery notes and shipment tracking. Also in non-LFT configuration, the DWS Pallet system offers a clear advantage in the optimal utilization of available warehouse space.

Flexible adjustments, easy operation, intelligent auxiliary hardware and software modules and sophisticated interfaces for higher-level systems make DWS Pallet a genuine all-around talent in the area of freight measurement.

MEASURING AND WEIGHING PALLETS AND OTHER BULKY FREIGHT ITEMS

Product description

The DWS Pallet track and trace system is a reliable solution when shipping bulky freight items such as pallets. The system helps logistics service providers such as freight forwarders, air freight service providers, and airlines detect freight for which the declaration is too low.

The freight is carried to the DWS Pallet with a forklift or pallet truck. It is then placed onto platform scales. As soon as the barcode attached to the freight item is identified using hand-held scanners, the length, width, volume, and weight of the freight is determined. A webcam can also be installed in the DWS Pallet to take a photo of the freight.

Next, the data is shown on the integrated display, stored in a database, and transferred via standardized interfaces. Available upon request: special versions for larger freight items or for dynamic measurement.

At a glance

- Static dimensioning and weighing of pallets and other bulky freight items
- Complete solution with folding steel tube frame, evaluation computer and touchscreen display
- OIML certified and legal for trade according to international and local approval regulations

Your benefits

- Additional revenue for logistics service providers as a result of obtaining accurate dimension and weight measurements of bulky freight, which are typically greater than the values declared by the shipper
- Quick, economical commissioning thanks to pre-assembled, cabled complete system

CE MID 2004/22/EC OIML

Additional information

➔ **www.mysick.com/en/DWS_Pallet**

For more information, simply enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples, and much more.

Detailed technical data

The exact device specifications and performance data of the product may deviate from the information provided here, and depend on the application in which the product is being used and the relevant customer specifications.

General notes

Items supplied	DWS Pallet system with frame and SICK sensor package LMS500 (2 x) DFS60 IME12 (3 x) DOS-2312-G IDM160BT RS-232 Kit Handheld scanner (optional) Platform scale (optional) Connection cables and frame options depending on application

Features

MTBF	40,000 h
Exclusios	Measurement of non transparent (opaque) and dimensionally stable objects only
Legal-for-trade	Certified according OIML R 129, MID 009, and NAWI
Applications	Dimensioning of objects on pallets

Performance

Travel speed of measurement axis	22 m/min
Maximum object size	180 cm x 200 cm x 250 cm
Minimum object size	20 cm x 20 cm x 10 cm
Accuracy of object coverage	± 2 cm x ± 2 cm x ± 1 cm
Accuracy of scale	e = 0.5 kg
Allowed weight for legal-for-trade weighing	10 kg … 2,000 kg
Authorizations	OIML R 129 MID009 NAWI Legal-for-trade approvals

Interfaces

Ethernet	✔
Data transmission rate	10/100/1,000 Mbit/s
Protocol	FTP
Electrical connection	RJ45
Serial (RS-232, RS-422)	✔
Electrical connection	D-Sub
Optical indicators	Display unit with serial data interface (RS-232, RS-422, RS-485)
Identification	Robust IDM16x hand-held bar code scanner fitted with a cable for all standard 1D bar codes, reading distance of up to 800 mm, minimum module width 0.076 mm (other hand-held scanner types available upon request)

Mechanics/electronics

Dimensions, system (L x W x H)	3.2 m x 2.4 m x 3.35 m
Transport dimensions, system (L x W x H)	3.2 m x 2.4 m x 2.3 m
Measuring area of system	1.8 m x 2 m
Measuring height	≤ 2.5 m
Measurement area of platform scale	1.5 m x 1.25 m
Supply voltage	230 V, alternative 110 V (typical)

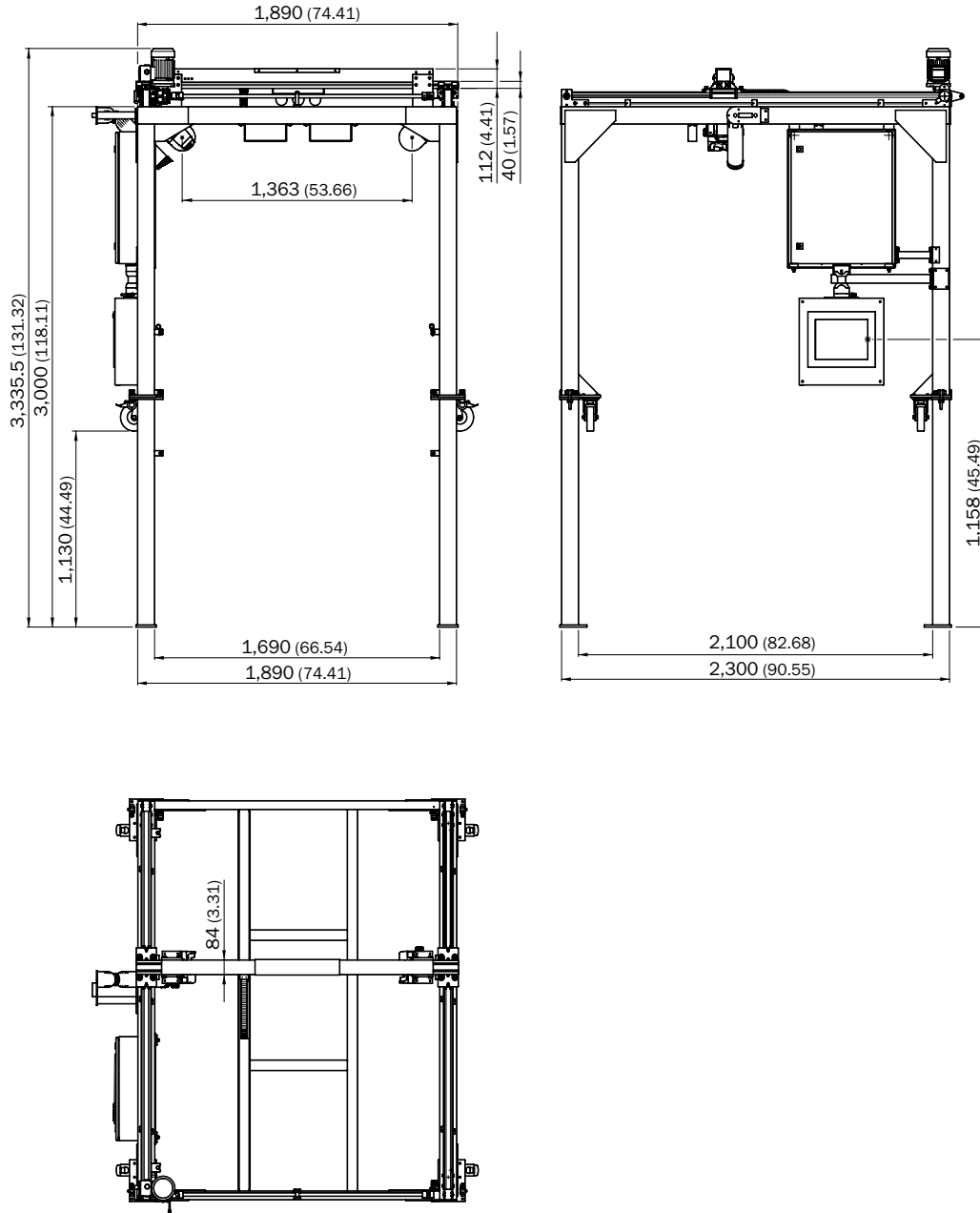| Mains frequency | 50 Hz, at 230 V |
	60 Hz, at 110 V
PC platform	APACHE p8 with Windows XP embedded
Panel PC	Touch panel for data input and visualization of measurement results
Protrusions	Protrusions on the object bigger than 4 cm in length and width, or 1 cm in height are included for the measurement of the smallest enclosing cuboid

Ambient data

Ambient temperature operation	0 °C ... +40 °C
	32 °F ... +104 °C
Permissible relative humidity	≤ 85 %, Non-condensing

Ordering information

Applications	Type	Part no.
Dimensioning of objects on pallets	DWS Pallet	On request

Dimensional drawing (Dimensions in mm (inch))

SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With almost 7,000 employees and over 50 subsidiaries and equity investments as well as numerous representative offices worldwide, we are always close to our customers. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in various industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services round out our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

Worldwide presence:

Australia, Austria, Belgium, Brazil, Canada, Chile, China, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, India, Israel, Italy, Japan, Malaysia, Mexico, Netherlands, New Zealand, Norway, Poland, Romania, Russia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Arab Emirates, USA, Vietnam.

Detailed addresses and additional representatives ➔ **www.sick.com**

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