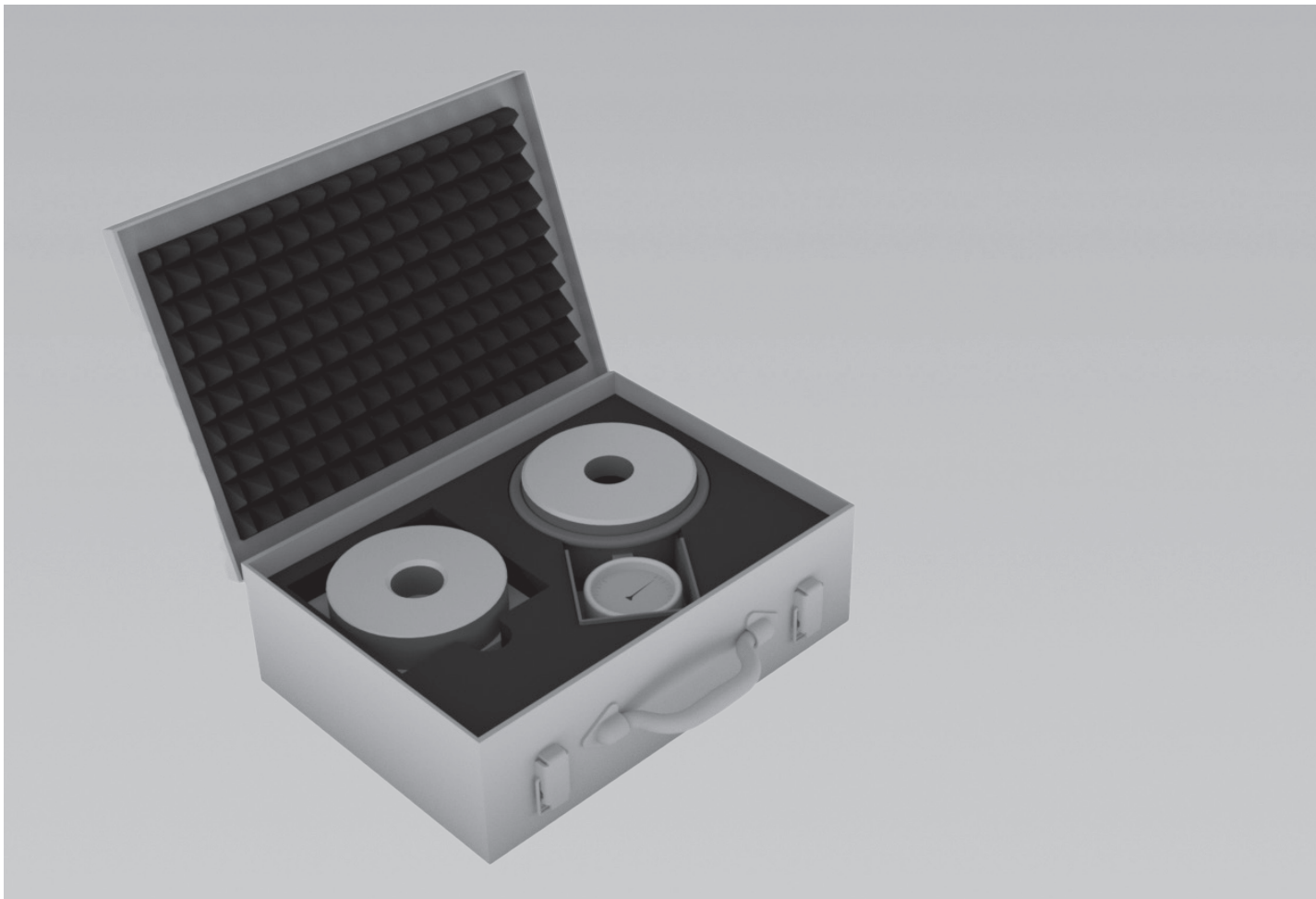
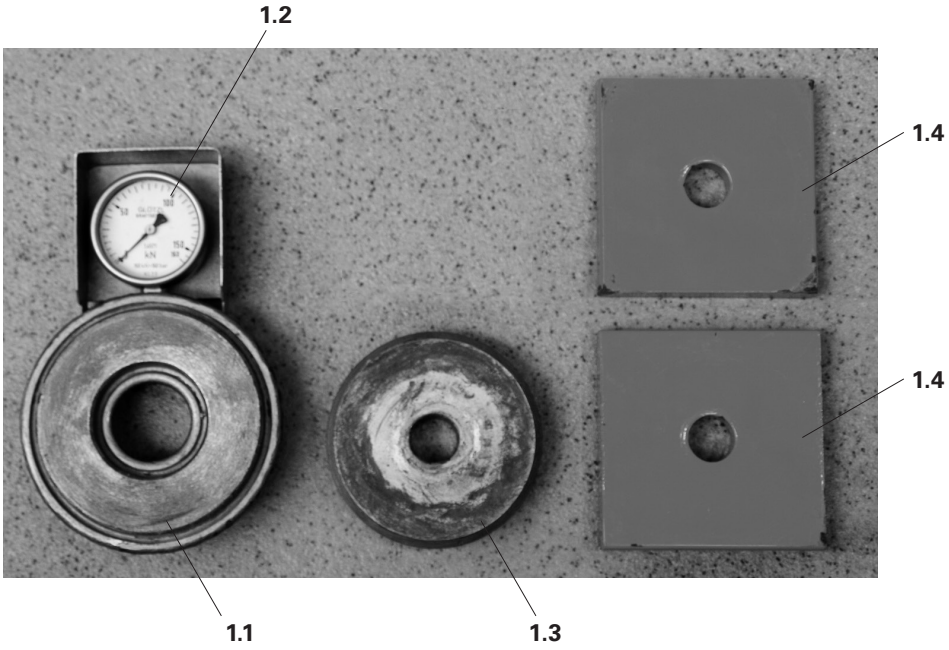
Tie Load Gauge 160 kN

Article no. 110612

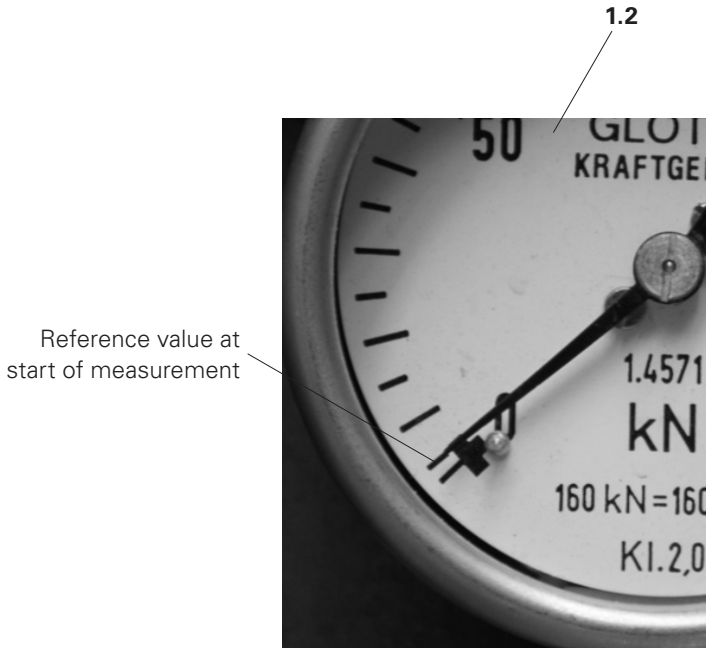
User information – Version 1.0



Main components



1 Tie Load Gauge 160 kN
1.1 Surface cushion
1.2 Pressure gauge
1.3 Compensation plate
1.4 Counterplate DW20



A1 Overview

Product description

Intended use
This user information describes the assembly and intended use of the 160 kN Tie Load Gauge.

The 160 kN Tie Load Gauge is mounted on one side at a tie point on the formwork system used. The anchor force can be measured on the pressure gauge.

Be mindful of the maximum formwork pressure of the system.

Technical data
- Temperature error: 1.2 % per 20 K temperature difference
- Temperature range: -30° C to 60° C
- Measuring range: ≤160 kN
- Measurement accuracy: lower than 2.0

Application
The 160 kN Tie Load Gauge can be used with DW15 and DW20 anchors.

Instructions for Use

Use in a way not intended, deviating from the standard configuration or the intended use set forth in the user information, represents a misapplication with a safety risk.

Only PERI original components may be used. The use of other products and spare parts is not allowed and represents a misapplication with associated safety risks.

Changes to PERI components are not permitted.

The system described in user information may contain patent-protected components.

Safety instructions

Observe and comply with the safety instructions and permissible loads.

For the application and inspection of PERI products, the current safety regulations and guidelines valid in the respective countries must be observed.

Each time prior to use and installation, check the Tie Load Gauge for:

- damage and
- functional integrity.

Damaged components must be exchanged immediately on site and no longer used.

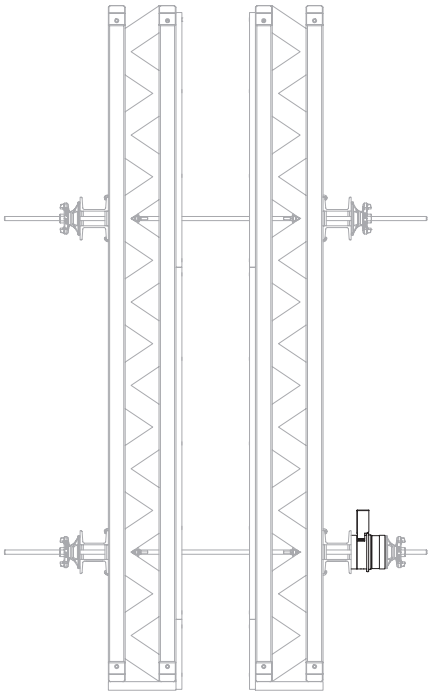
Prior to use, check the reference value at the start of measurement.

Storage

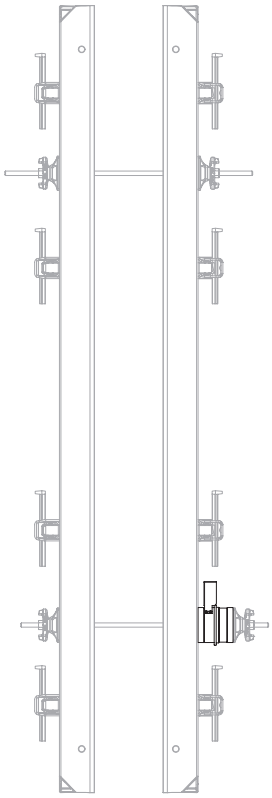
Store the 160 kN Tie Load Gauge in the supplied case when not in use.

Installation examples

VARIO GT 24 Girder Wall Formwork



TRIO Panel Formwork



A2 Assembly

Observe the Instructions for Assembly and Use for the formwork system used and, if applicable, the maximum project-specific formwork pressure.

- The tie rod at the measuring point must be approx. 12 cm longer.
- For formwork with special anchors, e.g. MX15 anchors for MAXIMO MX15 or MX-2 15, the measuring point must be equipped with a tie rod.

Assembly

1. Pre-assemble the anchoring down to the wing nut, wingnut counterplate or wingnut pivot plate and slide on the Counterplate DW20 (**1.4**). (Fig. A2.01)
2. Slide the anchor force measuring device 160 kN (**1**) onto the Tie Rod DW15 or DW20. (Fig. A2.02)
3. Slide the compensation plate (**1.3**) onto the anchor force measuring device 160 kN (**1**). (Fig. A2.03)

Check that the position of the compensation plate (**1.3**) is correct.

4. Slide the Counterplate DW20 (**1.4**) onto the Tie Rod DW15 or DW20. (Fig. A2.04)
5. Screw the wing nut, wingnut counterplate or wingnut pivot plate onto the Tie Rod DW15 or DW20, e.g. using a hammer, until the Counterplate DW20 (**1.4**) is firmly seated but does not exert any pressure on the anchor force measuring device 160 kN (**1**). (Fig. A2.05a + Fig. A2.05b)



Fig. A2.01



Fig. A2.02



Fig. A2.03



Fig. A2.04


Fig. A2.05a


Fig. A2.05b

A3 Installation position

- Do not install the Tie Load Gauge 160 kN (**1**) in the vicinity of fixtures such as windows or doors (hatched areas).
- Do not install the anchor force measuring device 160 kN (**1**) in the edge area.
- Install an anchor force measuring device 160 kN (**1**) at tie points (**A**) in the lower section of the stress-bearing formwork (first or second tie position).

Install the Tie Load Gauge 160 kN (**1**) in the tie position where the highest pressure is expected.

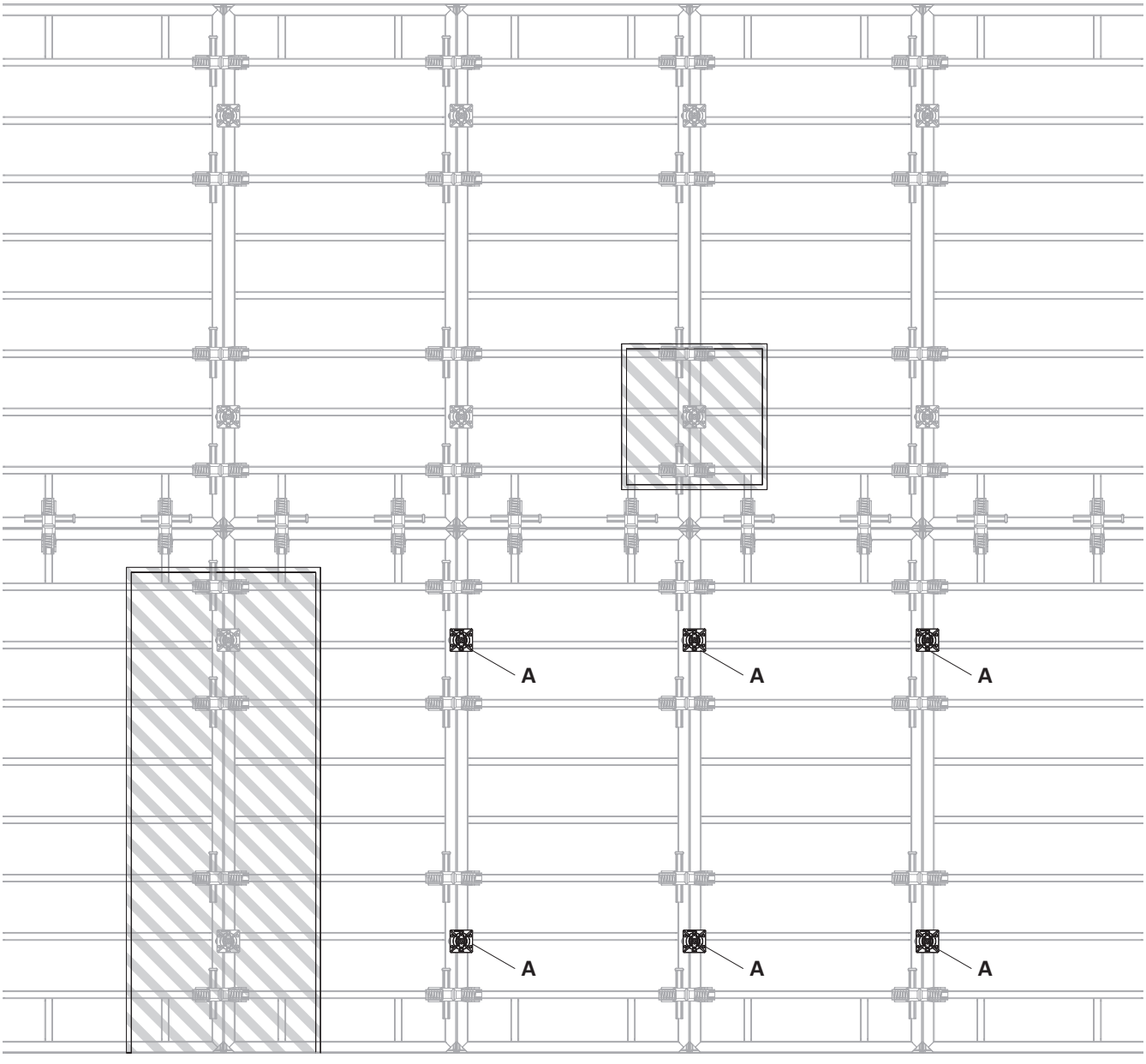
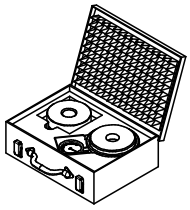


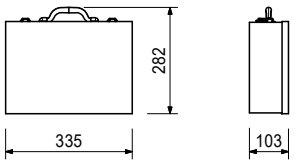
Fig. A3.01

Tie Load Gauge 160 kN

Art. number	Weight [kg]	
110612	18.000	**Tie Load Gauge 160 kN**

The Tie Load Gauge 160 kN is used to visualise the fresh concrete pressure directly at the formwork tie during the concreting process.





Complete with

2 x 030830 Counterplate DW20 120x120x20mm
1 x 138441 case with foam

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