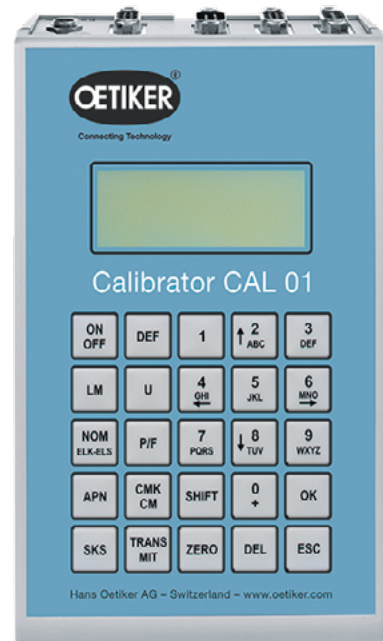


Technical Data Sheet

Test Equipment





Ensures uniform, reproducible process quality

Provides an interface for data exchange with any Oetiker electronically controlled installation tool

AC or DC operation

Convenient carrying case

Test Equipment Oetiker CAL 01

Closing forces for Oetiker Clamps

All types of Oetiker Ear Clamps and Low Profile Clamps that can be closed using a pneumatic pincer should be closed with a recommended, uniform force. This results in a constant, reproducible tensile stress in the clamp material within the permissible limits and without overloading the individual elements of the assembly.

The “Test Equipment CAL 01” is used to adjust and verify the applied closing force. To determine the recommended closing force for a specific product, please refer to the respective clamp data.

Important

In order to ensure uniform and reproducible process quality, Oetiker recommends verifying the closing forces of installation tools daily. In addition, stable compressed air quality and volume is required. To comply with the applicable local standards for test equipment, the CAL 01 should be calibrated at least once a year by an authorized institution. Please contact Oetiker regarding this service.

Technical Data Oetiker Test Equipment Cal 01

Operating voltage:	100–200 V / 47–63 Hz
Current consumption:	400 mA
External dimensions:	190 x 110 x 60 mm
Weight:	0.8 kg (CAL 01), 3.4 kg (complete case)

Delivery scope Oetiker Test equipment CAL 01

Calibrator CAL 01 with technical description and operating instructions

Coded load cell (SKS 01), assembled with 10 mm wide interchangeable pressure jaws (SKB 10)

7 mm wide pressure jaws (SKB 07)

Calibration adaptor

Power transformer compatible with local supply

Data cables for communication with PC, PLC and ELK / ELS

Lithium block battery (BAT 01)

Oetiker Test Equipment CAL 01 versions
Item No.

German	13600068
French	13600075
Dutch	13600076
Italian	13600077
Spanish	13600078
Swedish	13600079
English (UK)	13600080
English (USA)	13600081
English (Australia)	13600082
English (China)	13600155

Optional accessories and spare parts
Item No.

Mains-plug charger for block battery 9V 230V/50Hz, EURO plug	06001158
Block battery 9V	06001157
Lithium block battery 9V (BAT 01)	06001165
Mains unit 100...230V, EURO (STN 01)	06001159
Mains unit 100...230V, UK (STN 02)	06001166
Mains unit 100...230V, USA (STN 03)	06001167
Mains unit 100...230V, Australia (STN 04)	06001168
Pressure jaws SKB05 (jaw width 5 mm)	13600060
Pressure jaws SKB05** (jaw width 5 mm)	13600294
Pressure jaws SKB07 (jaw width 7 mm)	13600059
Pressure jaws SKB10 (jaw width 10 mm)	13600058
Guard* for HO2000...HO4000 (SVG01)	13600070
Guard* for HO5000/HO7000 (SVG02)	13600071

* The guards SVG01/02 surround the pincer head, and at the same time hold the SKS 01 in position so that the danger zone is protected. These guards should be used when the CAL 01 is used to carry out automatic Cmk checks

** for opening gap < 7.5 mm and closing force up to 2 kN.



Mechanical alternative for closing force calibration
 Ensures uniform and reproducible process quality
 Force is determined from a conversion table
 Covers the entire standard range of closing forces

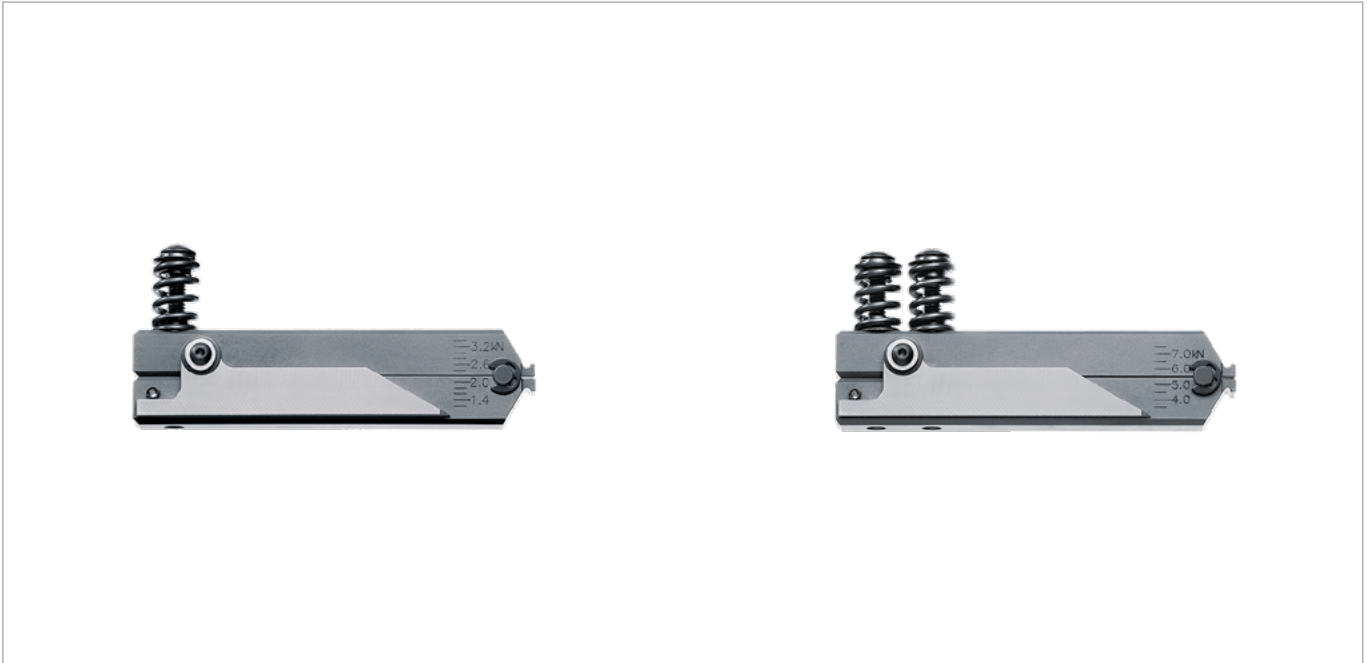
Test Equipment Oetiker CAL 02

Mechanical alternative to Test Equipment CAL 01. High accuracy – especially suitable for mechanical tools.

Versions	Item No.
With MarCator 1087 digital gauge	13600243
With MarCator 1081 digital gauge	13600244
Without dial gauge	13600245

Delivery scope

Closing force sensor (SKS 02), fitted with closing force lugs
 10 mm wide (SKB 10)
 Operating instructions
 Transport case
 Adhesive Loctite 243
 Socket wrench SW 2.5
 Socket wrench SW 3



Economical alternative for closing force calibration

Force indicated by a pointer on a scale

Ensures uniform and reproducible process quality

Two models available to suit closing force range

Developed for ear clamp installation tools

Robust plastic carrying case

Test Equipment

Oetiker SKM 01 & 02

Closing Force Gauges SKM 01/02 offer economical solutions for verifying the closing forces in small series and service applications. Suitable for calibrating installation tools for ear clamps.

Types of Oetiker Closing Force Gauges

	Item No.
Oetiker SKM 01	13900631
Oetiker SKM 02	13900632

Delivery scope

Oetiker SKM 01/SKM 02

[Closing Force Gauge](#)

[Operating instructions](#)

Technical data SKM 01

Dimensions: ca. 100 x 19.5 x 44 mm

Weight: ca. 230 g

Closing force range: 1200 N–3400 N

Graduation: 200 N

Technical data SKM 02

Dimensions: ca. 100 x 19.5 x 44 mm

Weight: ca. 240 g

Closing force range: 3500 N–7500 N

Graduation: 500 N