



Calibration certificate No. 33476

Werks-Kalibrierschein

Object : crane scale
Gegenstand

Manufacturer : PCE-Group
Hersteller

Typ : PCE-CS 3000HD / 3000kg
Typ

Ident. No. : EW36734
Ident-Nr.

Customer : Finance Department
Auftraggeber Site de Prevevin
CH-1211 Geneve 23

Number of pages : 2
Anzahl der Seiten

Date of calibration : 31.03.2008
Datum der Kalibrierung

Next calibration : 31.03.2009
Nächste Kalibrierung

The calibration is performed by comparison with reference standards, with standard measuring equipment or on the basis of documented calibration procedures.

This calibration certificate documents the traceability to national standards maintained by the DKD (Deutscher Kalibrierdienst), the PTB (Physikalisch Technische Bundesanstalt) or other national standards, which realize the physical units of measurement according to the International System of Units (SI).

The user is obliged to have the object recalibrated at an appropriate interval. The calibration results refer exclusively to the object. The calibration satisfies the requirements of the DIN EN ISO IEC 9000.

This calibration certificate may not be reproduced other than in full except with the permission of the CALDI GmbH, Ratingen.

Ambient conditions : Temperature: 22 °C , Humidity: 32 % , Atmospheric pressure: 1014 hPa

Test instruction :

CALDI calibration instruction for force V2-10/07 (worked out from DIN EN 10002-3)

Measuring devices used :

HBM, MGC plus, ML38, rückgeführt auf DKD-K-00902, Nr. 10737
50 kN, KAS M 15-10, rückgef. auf K-BNME 209/56/01 PTB 1.21-405/94

Test result: The measuring device keeps to a tolerance of 6,0kg.



Date

Tester

31.03.2008

M. Schlegel





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| Reference assessment | Reading of test sample | Deviation | Measurement uncertainty | accuracy factor in % |
|-----------------------|------------------------|-----------|-------------------------|----------------------|
| tractive force rising | | | | |
| 0.0 kg | 0.0 kg | 0 kg | 1.0 kg | |
| 300.0 kg | 300.5 kg | 0.5 kg | 4.0 kg | 1.500 |
| 600.0 kg | 601.5 kg | 1.5 kg | 4.0 kg | 0.917 |
| 900.0 kg | 902.0 kg | 2 kg | 4.0 kg | 0.667 |
| 1200.0 kg | 1202.5 kg | 2.5 kg | 4.0 kg | 0.542 |
| 1500.0 kg | 1503.5 kg | 3.5 kg | 4.0 kg | 0.500 |
| 1800.0 kg | 1804.0 kg | 4 kg | 4.0 kg | 0.444 |
| 2100.0 kg | 2104.5 kg | 4.5 kg | 4.0 kg | 0.405 |
| 2400.0 kg | 2405.0 kg | 5 kg | 4.0 kg | 0.375 |
| 2700.0 kg | 2705.5 kg | 5.5 kg | 4.0 kg | 0.352 |
| 3000.0 kg | 3006.0 kg | 6 kg | 4.0 kg | 0.333 |
| 0.0 kg | 0.0 kg | 0 kg | 1.0 kg | |

Measurement uncertainty:

Each given measurement uncertainty consists of the uncertainty of the calibration procedure, those of the reference devices during the calibration and the ascendancies of the test object. A component of the long-term stability of the calibrated object is not included.

Accuracy factor = (|Deviation| + |Measurement uncertainty|) / Reference assessment * 100 , no units.

