

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany



OIML Certificate N°
R60/2000-DE1-06.01

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

Name: Physikalisch-Technische Bundesanstalt
Address: Bundesallee 100, 38116 Braunschweig
Person responsible: Dr. Roman Schwartz

Applicant

Name: Hottinger Baldwin Messtechnik GmbH
Address: Im Tiefen See 45, 64293 Darmstadt
Germany

Manufacturer of the certified type is the applicant.

Identification of the certified type

Strain gauge shear beam load cell

Type: Z7

E_{\max} : 500 kg ÷ 10 000 kg

Further characteristics see page 2

This Certificate attests the conformity of the above identified type (represented by the sample or samples identified in the associated Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R60, edition 2000
for accuracy classes D1 and C3

This Certificate relates only to the metrological and technical characteristics of the type of instrument covered by the relevant OIML Recommendation identified above.

This Certificate does not bestow any form of legal international approval.

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The conformity was established by the results of tests and examinations provided in the associated Test Reports:

No. PTB-1.12-4021126/1 that includes 19 pages, No. PTB-1.12-4021126/2 that includes 18 pages and No. PTB-1.12-4021126/3 that includes 18 pages.

The Issuing Authority

Dr. R. Schwartz
Direktor und Professor

17.03.2006

The OIML Member

Prof. Dr. M. Kochsiek

17.03.2006

Identification of the pattern (continued)

Load cells of the type Z7 are shear beam load cells. The load cell body is made of alloyed or stainless steel. The strain gauge application is protected by potted metal plates or by welded caps.

The metrological characteristics for application in approved weighing instruments are listed in Table 1.

Table 1

Accuracy class			D1	C3
Max. number of LC intervals	n_{LC}		1000	3000
Maximum capacity	E_{max}	t	0,5 / 1 / 2 / 5 / 10	2 / 5 / 10
Minimum load cell verification interval	V_{min} (E_{max} / Y)		$E_{max} / 2800$	$E_{max} / 10\ 000$

Minimum dead load $0\% * E_{max}$; safe load $\geq 150\% * E_{max}$; rated output 2mV/V; input resistance 350 Ω ; fraction $p_{LC} = 0,7$

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated Test Report(s) is not permitted, although either may be reproduced in full.