Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany

OIML Certificate N°
R51/1996-DE-03.11
Revision 1

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

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

Applicant

Name:	ESPERA-WERKE GMBH
Address:	Moltkestr. 17-33 47058 Duisburg Germany

Manufacturer of the certified type is the applicant.

Identification of the certified type	Automatic Catchweighing Instrument Type: ES 5xyz, ES 6xyz and ES 7xyz
	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):

R51-1, edition 1996
for accuracy classes X(0,5), X(1) and Y(a)

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.

R3-0033

Physikalisch-Technische Bundesanstalt

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This revision is issued because a weighing instrument with a new scale module has been added, see report No. 1.12-4021145/1(58 pages).

The former Test Report N° 1.14-02000528 (55 pages) remains valid without any changes.

The conformity was established by the results of tests and examinations provided in the associated Report No. 1.12-4021145 (14 pages).

The Issuing Authority

Dr. R. Schwartz
Direktor und Professor

2005-12-21

The CIML Member

Prof. Dr. M. Kochsiek
Vizepräsident

2005-12-21

Identification of the pattern (continued)

Automatic electromechanical weighing instrument as
- weigh price labeller,
- weigh labeller or
- checkweigher,

equipped
- with a platform strain gauge load cell (SG-LC)

and performed as
- single or multi interval instrument.

Accuracy class	X(1)	Y(a)
Mode of operation	see table 1	
Belt speed	≤ 1 m/s	
Power supply voltage	190 - 245 V AC, 50/60 Hz	
Temperature range	-10 °C / +40 °C	
Number n of verification scale intervals	≤ 2 · 3000	
Verification scale interval e	≥ 1 g	
Ratio between e_i/e_{i+1}	< 3	
Maximum load Max	≤ 6000 g	
Minimum load Min	≥ 50 g	≥ 20 · e_1

Table 1: Technical data of the weighing instrument ES 5xyz

Accuracy class	X(0,5)	X(1)	Y(a)
Mode of operation	see table 3-1		
Belt speed	≤ 1,14 m/s; cf. diagram 1		
Power supply voltage	190 - 245 V AC, 50/60 Hz		
Temperature range	-10 °C / +40 °C		
Number n of verification scale intervals	≤ 3000/3000/2000		
Verification scale interval e	≥ 1 g		
Ratio between e_i/e_{i+1}	< 3		
Maximum load Max	≤ 10000 g		
Minimum load Min	≥ 150 g	≥ 50 g	≥ 20 · e_1

Table 2: Technical data of the weighing instrument ES 6xyz / ES 7xyz

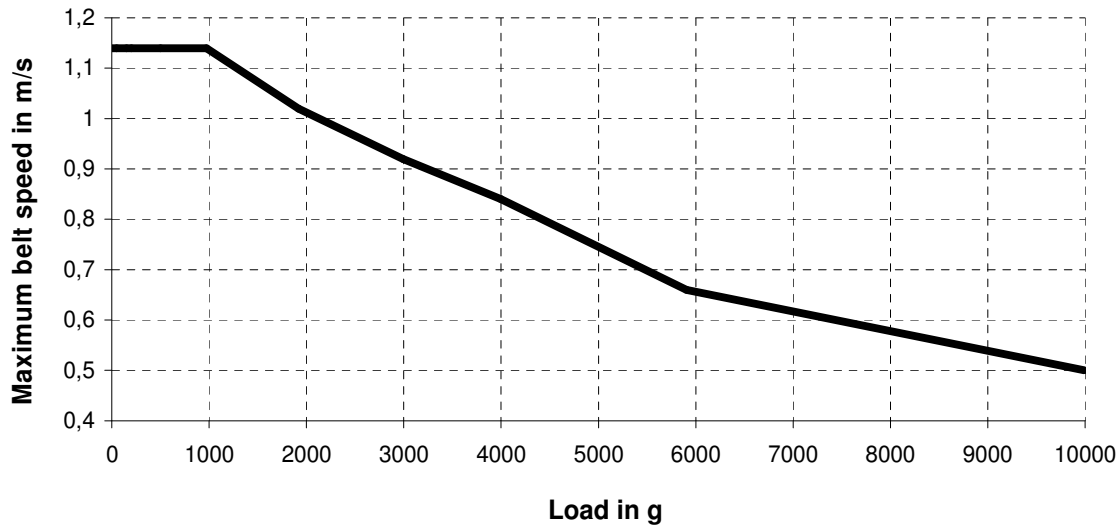

Diagram 1: Belt speed of the weighing instrument ES 6xyz / ES 7xyz in dependence on the load

Further details are given in the above-mentioned Report and Test Reports.

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.