

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany



OIML Certificate No.
R51/2006-DE1-08.01
Revision 1

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

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

Applicant

Name: LEICH und MEHL GmbH
Address: Porschestraße 7, 71394 Kernen im Remstal

Manufacturer of the certified type is the applicant.

Identification of the certified type Automatic catchweighing instrument
Type: PAW2000

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 2006
for accuracy classes XIII(1), XIII(x ≥ 2), Y(a) and Y(b)

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.

Physikalisch-Technische Bundesanstalt

OIML Certificate No.
R51/2006-DE1-08.01
Revision 1

The conformity was established by the results of tests and examinations provided in the associated Report

No 1.12-4033567 (16 pages)

and Test Reports

No 1.12-4033567/1 (70 pages),

No 1.12-4033567/2 (70 pages),

No 1.12-4033567/3 (70 pages),

No 1.12-4033567/4 (39 pages),

No 1.12-4033567/5 (58 pages),

No 1.12-4033567/6 (58 pages) and

No 1.12-4033567/7 (58 pages).

The Issuing Authority

Dr. D. Ratschko
Head of Department

10.02.2012

The CIML Member

Dr. R. Schwartz
Head of Division

10.02.2012

Identification of the pattern (continued)

Automatic electromechanical weighing instrument as

- catchweigher,
 - weigh price labeller,
 - weigh labeller or
 - checkweigher,
- equipped

Physikalisch-Technische Bundesanstalt

OIML Certificate No.
R51/2006-DE1-08.01
Revision 1

- with electrodynamic force compensation load cell (EFC-LC)
- and performed as
- single or multi interval instrument.

Weighing mode	Static and dynamic weighing			
Accuracy class	XIII(x); x = 1 XIII(x); x ≥ 2	Y(a); Y(b)	XIII(x); x = 1 XIII(x); x ≥ 2	Y(a); Y(b)
Verification scale interval e	e ≥ 1 g		e ≥ 1 g	
Ratio between verification scale intervals	$\frac{e_{i+1}}{e_i} < 3$			
Number n of verification scale intervals	≤ 7500 ¹⁾ ≤ 2 • 3750 ¹⁾		≤ 3750 ¹⁾	
Maximum load Max	≤ 15 kg			
Minimum load Min	≥ 20e ²⁾ ≥ 50 g ³⁾	≥ 20e ²⁾ ≥ 20 g ³⁾	≥ 20e ²⁾ ≥ 50 g ³⁾	≥ 20e ²⁾ ≥ 20 g ³⁾
Temperature range	0°C / +40°C			
Maximum belt	≤ 1,2 m/s	≤ 0,9 m/s	≤ 1,2 m/s	≤ 1,2 m/s ⁴⁾
Put through	≤ 160 pcs/min	≤ 120 pcs/min	≤ 160 pcs/min	≤ 160 pcs/min ⁴⁾
Tare	≤ 0,25 • Max ⁵⁾			

Tab 1: Technical data of the weighing instrument PAW 2000 (EFC-LC of the type BF20-L or BF20-L-P-I)

- 1) For weighing instruments of the category XIII and Y(b) the number of verification scale intervals is limited to $n_i \leq 1000$.
- 2) This value is valid for static weighing. The minimum capacity in case of static weighing for category Y depends on the specification according to R51-1:2006 No 2.2.2. In that case it may be applied to corresponding category X in the same way in order to achieve smaller minimum capacities.
- 3) This value is valid for dynamic weighing. For weighing instruments of the category X the minimum loads depend on the used digital LC and for weighing instruments of the category Y additionally on the specification under 2). In case of category Y the greater value has to be taken. Greater minimum loads may also result from the metrological test of the LMC.
- 4) Cf. Tab. 2

Load L	Belt speed	Put through
10 g ≤ L ≤ 3 kg	≤ 1,2 m/s	≤ 160 pcs/min
L > 3 kg	≤ 0,9 m/s	≤ 120 pcs/min

Tab 2: Belt speed and the put through in dependence of the load L

- 5) This specification applies only to weighing instruments with parameters being generally valid over the complete weighing range for all products and weighing in motion (dynamic weighing). For single products having especially their own **product data storage** and/or their own product-specific parameters greater tare loads are allowed if they are approved by the LMC. A tare load ≤ - Max is allowed for start stop operation (static weighing).

Physikalisch-Technische Bundesanstalt

OIML Certificate No.
R51/2006-DE1-08.01
Revision 1

Weighing mode	Dynamic weighing			
Accuracy class	XIII(x); x = 1 XVIII(x); x ≥ 2	Y(a); Y(b)	XIII(x); x = 1 XVIII(x); x ≥ 2	Y(a); Y(b)
Verification scale interval e	e ≥ 0,5 g		e ≥ 1 g	
Number n of verification scale intervals	≤ 7500 ¹⁾	≤ 6000 ¹⁾	≤ 3750 ¹⁾	
Maximum load Max	≤ 15 kg			
Minimum load Min	≥ 20e ²⁾ ≥ 50 g ³⁾	≥ 20e ²⁾ ≥ 20 g ³⁾	≥ 20e ²⁾ ≥ 50 g ³⁾	≥ 20e ²⁾ ≥ 20 g ³⁾
Temperature range	0°C / +40°C			
Maximum belt	≤ 1,22 m/s ⁴⁾	≤ 0,92 m/s	≤ 1,22 m/s	
Put through	≤ 160 pcs/min	≤ 120 pcs/min	≤ 160 pcs/min	
Tare	≤ 0,25 • Max ⁵⁾			

Tab 3: Technical data of the weighing instrument PAW 2000 (EFC-LC of the type TF20...; beginning)

Weighing mode	Dynamic weighing		Static weighing	
Accuracy class	XIII(x); x = 1 XVIII(x); x ≥ 2	Y(a); Y(b)	XIII(x); x = 1 XVIII(x); x ≥ 2	Y(a); Y(b)
Verification scale interval e	e ≥ 0,5 g / 1,0 g		e ≥ 0,2 g / 0,5 g / 1,0 g / 2,0 g	
Ratio between verification scale intervals	$\frac{e_{i+1}}{e_i} < 3$			
Number n of verification scale intervals	≤ 2 • 3750 ¹⁾		≤ 4 • 10000 ¹⁾	
Maximum load Max	≤ 15 kg			
Minimum load Min	≥ 20e ²⁾ ≥ 50 g ³⁾	≥ 20e ²⁾ ≥ 20 g ³⁾	≥ 20e ²⁾	
Temperature range	0°C / +40°C			
Maximum belt	≤ 1,22 m/s	≤ 0,92 m/s	≤ 1,22 m/s	
Put through	≤ 160 pcs/min	≤ 120 pcs/min	≤ 160 pcs/min	
Tare	≤ 0,25 • Max ⁵⁾			

Tab 3: Technical data of the weighing instrument PAW 2000 (EFC-LC of the type TF20...; continuation)

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