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**Report on the meeting of the FEIBP WG “Technical Brushes”  
on 30<sup>th</sup> June 2015 in Frankfurt**

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**Participants: see annex**

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**A. Proposal EN 1083-1**

The German delegation presents the proposal for the revision of EN 1083-1. The proposed system and structure for the complete designation of technical brushes is explained and discussed using the instance of a wheel brush. The participants welcome the proposal. It is stressed, that a standard designation system for brushes is needed for clear communication with customers, for internal purposes of the manufacturers and for e-commerce. The application of this system will be voluntary.

**Open points:**

- table 2: inclusion of an own symbol for square bores in addition to hexagon bores?
- specification for the filling grade of filaments with abrasive material (optional)
- check, if the proposed designation of the grain size (according to ISO standards for abrasive tools) is in line with the usual designation in the brush industry (Mr. Muckenfuß)

**Next steps:**

- complete translation of the draft into English and distribution in the FEIBP WG for comments (Mr. Holland-Letz, September 2015)
- proposal for the designation for the filling grade of filaments with abrasive material (Mr. Muckenfuß, September 2015)
- update of the drawings (Mr. Lessmann, *done*)

**B. EN 1083-2**

**Table 3 List of hazards**

New line: “Dust extraction during brushing | Danger of cancer | Clause 7”

**Table 4: Dimensional limitations for brushes used for hand-held applications on hand-held brushing machines**

Dimensional limitations (D and L) for tube brushes TT-X and TF-X? -> Mr. Lessmann and Mr. Renner will provide a proposal

**5.3.2 Permissible tolerances for the bore diameter of brushes for hand-held applications on hand-held brushing machines**

After extensive discussion, the tolerance is decided as 0/+0.16 mm, independent from the bore diameter (harmonisation with abrasive tools, which are used on the same machines).

**5.3.3 Dimensions and tolerances for bores with clamping flutes (turtle bore)**

Tolerance for the inner diameter in the drawing to be changed to 50.8 0/+0.16 (Mr. Stein)

**5.3.4 Tolerances of the shank of brushes for hand-held brushing**

After extensive discussion, the tolerance is decided as h11 according to ISO 286-2.

### **5.3.5 Brushes with thread**

Members of the German delegation report based on internal tests, that they see safety problems with multi-threads (loosening of the brush, lower transferable torques and separation forces (20% compared with metric threads), unbalance due to insufficient contact between inner and outer thread). On the other hand, brushes with multi-threads are sold since 25 years without practical problems. The German delegation underlines that safety problems would occur with worn-out inner and outer threads.

As already discussed at the WG meeting in Brussels, it should be considered to commission neutral tests by a specialised institute. Mr. Holland-Letz will ask two testing institutes to provide details of suitable tests and quotations.

#### **Marking of tube brushes with $n_{max}$ ?**

It is known, that end users use tube brushes, which are not intended for rotating applications with hand drilling machines to clean tubes or holes. For reasons of product liability, some manufacturers mark such brushes with  $n_{max}$ . In some cases, a higher  $n_{max}$  is declared under the condition that the brush has to be inserted into the tube or hole before the machine is started.

Mr. Stein will provide a proposal for chapter 7 for a corresponding statement in the information for the end user, derived from the standard for burrs.

#### **Annex A, specification 2 (marking with thread size)**

The companies will check this requirement and make comments before the next meeting.

#### **Annex A, specification 5 (pictograms)**

Mr. Beulen will provide a proposal (*done*).

#### **Annex A (place of the marking: brush, label, packaging)**

To be checked again.

### **C. Safety leaflets for brushes**

Mr. Acquaderni presents a safety leaflet used by his company in different languages (see <http://www.sitbrush.com/safety/SIT-Safety-Slip-2015.pdf>). As already discussed at previous meetings, it is proposed to create a common leaflet by FEIBP in order to harmonise the content of all leaflets, like this is already done by ABMA and the European abrasives association FEPA. Mr. Beulen will provide examples of the FEPA safety leaflets.

# Anwesenheitsliste



Sitzung: AK Technische Bürsten / FEIBP-WG "Technical Brushes"

Sitzungsort: Frankfurt/Main

Datum: 30.06.2015

Firma	vertreten durch:
Hahl Filaments GmbH Munderkingen	Günter Muckenfuß ✓
HATHO GmbH Eschbach	Dr. Ralf Steiner <i>Steiner</i>
C. Hiltzinger-Thum GmbH & Co. KG Tuttlingen	Markus Renner <i>M. R.</i>
KULLEN - KOTI GmbH Reutlingen	Uli Vollmer <i>entschuldigt / excused</i>
Lessmann GmbH Drahtbürstenfabrik Oettingen/Bay	Jürgen Lessmann <i>Lessmann</i>
Osborn International GmbH Burgwald	Jochen Ertl <i>J. Ertl</i>
August Rüggeberg GmbH & Co. KG PFERD-Werkzeuge Marienheide	Herbert Beulen <i>H. Beulen</i>
August Rüggeberg GmbH & Co. KG PFERD-Werkzeuge Marienheide	Markus Stein <i>M. Stein</i>
Società Italiana TecnoSpazzoleSpA Casalecchio di Reno	Andrea Acquaderni <i>Acquad</i>
Taso Fritz Thaler jun. GmbH Solingen	Siegfried Thaler <i>S. Thaler</i>
Fachverband Werkzeugindustrie e.V. Remscheid	Thoams Holland-Letz <i>THL-Letz</i>

Stand: 29.06.2015