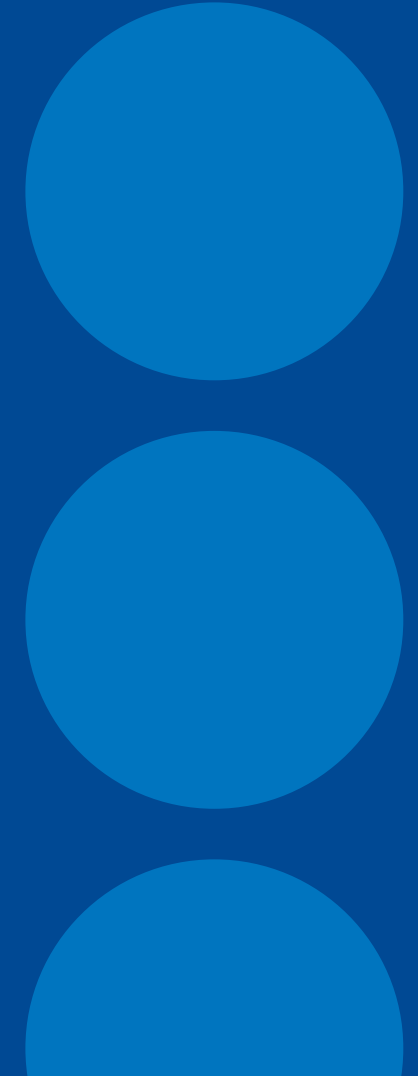




Report from the CEN TC/274 „*Aircraft **G**round **S**upport **E**quipment*“

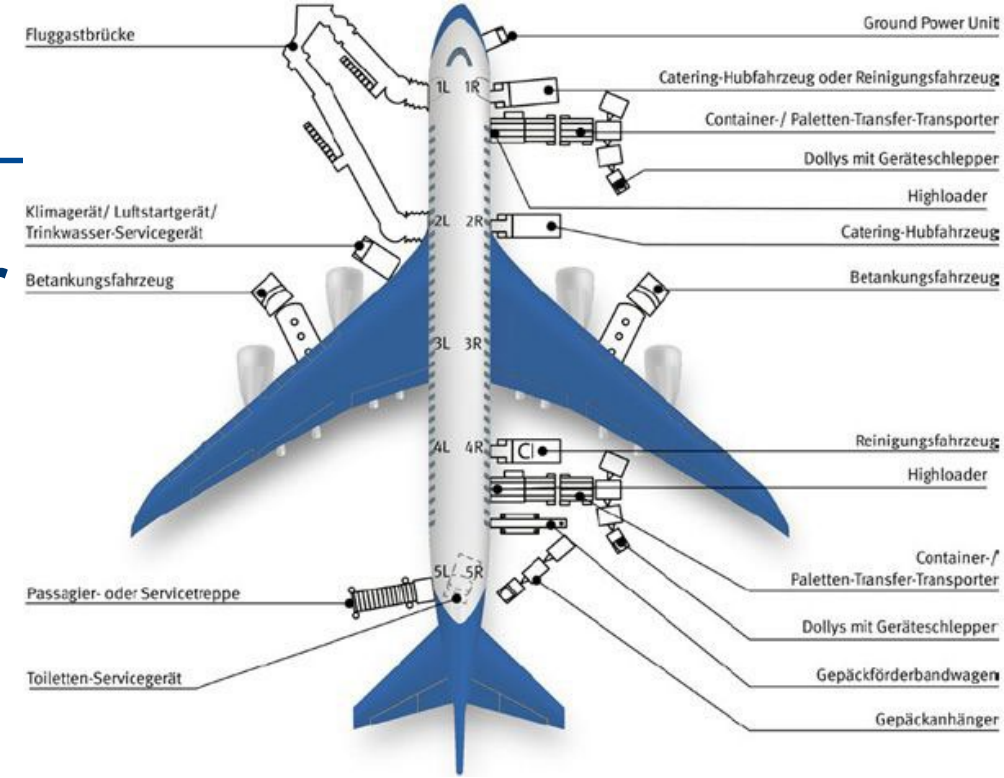


Helge Homann, Prevention and Technical Officer
Head of department “Aviation” at BG Verkehr



European standardization activities for GSE

- Personnel
- Brief overview of activities
- Prospects
- Joint of ISO/TC 20/SC 09 and CEN/TC 274
- **New machinery regulation**



Personnel

- **CEN/TC 274** "Aircraft ground support equipment"
 - Chairman: **Helge Homann (2018 – 2024)**
 - Secretary: Dorothee Kretschmar; DIN

- **CEN/TC 274/WG 1** "Working Group Revision"
 - Convenor: **Helge Homann (2018 – 2024)**
 - Secretary: Dorothee Kretschmar; DIN

- **NA 131-08-01** "Luftfahrtbodengeräte"
 - Obfrau: **Caroline Krause (2022 -)**
 - Sekretariat: Dorothee Kretschmar; DIN

Actual

- prEN 1915-1, *Basic safety requirements*
 - This standard has received a **positive** 2nd assessment by the HAS-consultants on Machinery and Noise on [27th February 2023](#).
Publication [2nd November 2023](#).
- prEN 12312-1, *Passenger stairs*
 - The current draft is available. It will be submitted to Formal Vote as soon as FprEN 1915-1 was published.
- prEN 12312-4, *Passenger boarding bridges*
 - The current draft is available. It will be submitted to Formal Vote as soon as FprEN 1915-1 was published.



Actuel

- Discussion about a **NWIP** for aircraft cleaners and cleaning equipment
 - Mr **Jensen** (Vestergaard; DK) prepared a scope for a new project dealing with aircraft cleaners and cleaning equipment. The proposal was discussed in the last meeting.
 - **Decision: EN 12312-8 will** be updated to include aircraft cleaners and cleaning equipment.



Systematic reviews (Start 6th of September 2022, ends 3rd of March 2023)

EN 1915-2:2009, *Stability and strength requirements, calculations and test methods*

EN 1915-3:2009, *Vibration measurement methods and reduction*

EN 1915-4:2009, *Noise measurement methods and reduction*

EN 12312-10:2009, *Container/Pallet transfer transporters*

EN 12312-11:2005, *Container/Pallet dollies and loose load trailers*

EN 12312-16:2009, *Air start equipment*

EN 12312-17:2009, *Air conditioning equipment*

EN 12312-18:2009, *Nitrogen or Oxygen units*

EN 12312-19:2009, *Aircraft jacks, axle jacks and hydraulic tail stanchions*

EN 12312-20:2009, *Electrical ground power units*

Result of the systematic reviews 2022

EN [1915-2*:2009](#): 5 confirm, 2 revise (Denmark, Germany), 17 abstain

EN [1915-3*:2009](#): 6 confirm, 1 revise (France), 17 abstain

EN 1915-4:2009: 7 confirm, 17 abstain

EN [12312-10*:2009](#): 4 confirm, 1 revise (France), 19 abstain

EN 12312-11:2005: 5 confirm, 19 abstain

EN 12312-16:2009: 6 confirm, 18 abstain

EN 12312-17:2009: 7 confirm, 17 abstain

EN 12312-18:2009: 6 confirm, 18 abstain

EN 12312-19:2009: 6 confirm, 18 abstain

EN [12312-20*:2009](#): 5 confirm, 2 revise (France, Germany), 17 abstain

[*Incoming comments](#) were discussed in the WG1 in September. Decision is a revision!

Joint of ISO/TC 20/SC 09 and CEN/TC 274

- First discussions between chairs and secretary on merging EN standards and ISO standards for GSE in September 2021
- first standard for the transfer will be the EN 12312-11 [Container/Pallet dollies and loose load trailers]; it will be adopted as identical ISO 32312-11
- Another standard for transfer to ISO could possibly be EN 1915-3 "Vibration measurement methods and reduction". TC 20/ SC09 voted on this in August 2023. Decision was positive (also from China and North America)

Examples, not a conclusive list

Item	IATA AHM	ISO	CEN
All kind of GSE	910	6966-1	1915-1
Passenger stairs	920	12056	12312-1
Catering-Trucks	926 / 927	27470 und 10841	12312-2
Conveyor belt vehicles	925	-	12312-3
Passenger boarding bridges	922	16004	12312-4
Deicers and deicing equipment	975	11077	12312-6
Aircraft movement equipment	938 / 955 / 956 / 957	7717 / 20683 / 9667	12312-7
Highloader, Container/Pallet loaders	930 / 931 / 932	27471 / 6968 / 6967	12312-9
.....			

Outlook

The current Machinery Directive 2006/42 EC will be replaced by a new Machinery Products Regulation in 2023. Transition period for the application **currently 36 months (January 2027)**.

All standards (for GSE) will first be checked for content plausibility. This will be done in working groups after publication.

Why is there a new Machinery regulation?

The main reason for the new regulation **EU 2023/1230** is, to adapt it to the current state of the art. It is intended to take into account the new requirements of digitalization, functional safety and

- self-learning systems and cyber security. The EU Machinery Regulation is intended to minimize the following safety risks in particular:
 - Human-robot collaboration (collaborative robots > “cobots”)
 - Manipulation of machines connected to the internet (cybersecurity)
 - Effects of software updates
 - Securing autonomous machines and remote monitoring stations

Difference between the Machinery Directive and the Machinery Regulation

- The main difference between the Machinery Ordinance and the Machinery Directive is their binding nature. The directive is not binding and must first be transposed into national law by all member states. In contrast, the Regulation (after the expiry of certain transitional periods) applies directly to all EU states / countries - including companies in Germany.

What will come into force?

(Safe machines with – or despite – artificial intelligence)

Item	Date
Inclusion of new products in Annex I (old Annex IV) Part A of the new Machinery Regulation Committee procedure	19.07.2023
Notification of conformity assessment bodies	20.01.2024
Inclusion of new products in Annex I Adoption of delegated acts Exercise of delegation of powers	20.07.2024
Adoption of provisions on sanctions by the EU member states	20.10.2026

Thank you very much
for your attention!

Q & A

