

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV

Signatory to the Multilateral Agreements of
EA, ILAC and IAF for Mutual Recognition

Accreditation



The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

Deutsche Gesetzliche Unfallversicherung e.V.(DGUV)
Glinkastraße 40, 10117 Berlin

At the location:

Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA)
Prüf- und Zertifizierungsstelle im DGUV Test
Alte Heerstraße 111, 53757 Sankt Augustin

is competent under the terms of DIN EN ISO/IEC 17025:2005 to carry out tests in the following fields:

Machinery
Personal Protective Equipment

for the test methods listed in the Annex to this document

The accreditation certificate shall only apply in connection with the notice of accreditation of 2017-12-21 with the accreditation number D-PL-17009-34 and is valid until 2022-12-20. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 22 pages.

Registration number of the certificate: **D-PL-17009-34-00**

Frankfurt am Main,
2017-12-21

Dipl.-Ing. (FH) Ralf Egnér
Head of Division

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2018-09-13


Head of Division

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-17009-34-00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 2017-12-21 to 2022-12-22 Date of issue: 2017-12-21

Holder of certificate:

Deutsche Gesetzliche Unfallversicherung e.V.(DGUV)
Glinkastraße 40, 10117 Berlin

At the location:

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Tests in the fields:

Machinery
Personal protective equipment

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all standards/equivalent procedures within the flexible scope of accreditation.

Subject area	Standard / internal method / version	Title of the standard or internal procedure (specify deviations from / modifications of standard procedures)	Testing area / restrictions
Personal protective equipment			
Respiratory protective devices			
	DIN 58620 : 2007-02	Gas filter(s) and combined filter(s) for protection against carbon monoxide-Requirements, testing, marking	

Subject area	Standard / internal method/ version	Title of the standard or internal procedure (specify deviations from/ modifications of standard procedures)	Testing area/ restrictions
	DIN 58621 : 2010-08	Respiratory protective devices– Reactor filters for protection against radioactive Methyl iodide and radioactive particles- Requirements, testing, marking	
	DIN 58647-7 : 1997-12	Respiratory protective devices for self-rescue– Part 7: Filtering devices for self-rescue; requirements, testing, marking	
	DIN EN 136: 1998-04	Respiratory protective devices– Full face masks Requirements, testing, marking	
	DIN EN 140 : 1998-12	Respiratory protective devices- Half masks and quarter-masks- Requirements, testing, marking	
	DIN EN 142 : 2002-08	Respiratory protective devices- Mouthpiece assemblies- Requirements, testing, marking	
	DIN EN 143 : 2007-02	Respiratory protective devices- Particle filters- Requirements, testing, marking	
	DIN EN 149 : 2009-08	Respiratory protective devices- Filtering half masks to protect against particles- Requirements, testing, marking	
	DIN EN 405 : 2009-08	Respiratory protective devices- Valved filtering half masks to protect against gases or gases and particles- Requirements, testing, marking	
	DIN EN 1827 : 2009-11	Respiratory protective devices- Half masks without inhalation valves and with separable filters to protect against gases or gases and particles or particles only- Requirements, testing, marking	

	DIN EN 12083 : 1998-06	Respiratory protective devices- Filters with breathing (Non-mask mounted filters)- Particle filters, gas filters, and combined filters- Requirements, testing, marking	
	DIN EN 12941 : 2009-02	Respiratory protective devices- Powered filtering devices incorporating a helmet or a hood- Requirements, testing, marking	
	DIN EN 12942 : 2009-02	Respiratory protective devices- Power assisted filtering devices incorporating full face masks, half masks or quarter masks- Requirements, testing, marking	
	DIN EN 14387 : 2008-05	Respiratory protective devices- Gas filter(s) and combined filter(s)- Requirements, testing, marking	
	DIN EN 14594 : 2005-07	Respiratory protective devices- Continuous flow compressed air line breathing apparatus- Requirements, testing, marking	
Hearing protection devices			
	DIN EN 352-1: 2003-04	Hearing protectors- Safety requirements and testing – Part 1: Ear-muffs	
	DIN EN 352-2 : 2003-04	Hearing protectors- Safety requirements and testing – Part 2: Ear-plugs	
	DIN EN 352-3 : 2003-04	Hearing protectors- Safety requirements and testing – Part 3: Ear-muffs attached to an industrial safety helmet	
	DIN EN 352-4 : 2006-01	Hearing protectors- Safety requirements and testing– Part 4: Level-dependent ear-muffs	
	DIN EN 352-5 : 2006-03	Hearing protectors- Safety requirements and testing- Part 5: Active noise reduction ear-muffs	
	DIN EN 352-6 : 2003-04	Hearing protectors - Safety requirements and testing – Part 6: Ear-muffs with electrical audio input	
	DIN EN 352-7 : 2003-04	Hearing protectors - Safety requirements and testing – Part 7: Level-dependent ear-plugs	

	DIN EN 352-8 : 2008-07	Hearing protectors - Safety requirements and testing – Part 8: Entertainment audio ear-muffs	
Protective equipment against falls			
<i>Anchors, belts, sub-systems, connectors, lanyards</i>			
	DIN EN 353-1 : 2002-09	Personal protective equipment against falls from a height – Part 1: Guided type fall arresters including a rigid anchor line; German version of EN 353-1:2002	
	DIN EN 353-2 : 2002-09	Personal protective equipment against falls from a height – Part 2: Guided type fall arresters including a flexible anchor line; German version of EN 353-2:2002	
	DIN EN 354 : 2010-11	Personal fall protection equipment - Lanyards; German version of EN 354:2010	
	DIN EN 355 : 2002-09	Personal protective equipment against falls from a height - Energy absorbers; German version of EN 355:2002	
	DIN EN 360 : 2002-09	Personal protective equipment against falls from a height - Retractable type fall arresters; German version of EN 360 : 2002	
	DIN EN 361 : 2002-09	Personal protective equipment against falls from a height - Full body harnesses; German version of EN 361:2002	
	DIN EN 362 : 2008-09	Personal protective equipment against falls from a height - Connectors; German version of EN 362:2004	
	DIN EN 363 : 2008-05	Personal fall protection equipment - Personal fall protection systems; German version of EN 363:2008	
	DIN EN 364 : 1993-02	Personal protective equipment against falls from a height; test methods; German version of EN 364:1992	

	DIN EN 364 : 1994-08	Corrigendum to DIN EN 364:1993-02; German version of EN 364:1992/AC:1993	
	DIN EN 365 : 2004-12	Personal protective equipment against falls from a height - General requirements for instructions for use, maintenance, periodic examination, repair, marking and packaging; German version of EN 365:2004	
	DIN EN 365 : 2004/AC:2006	Personal protective equipment against falls from a height - General requirements for instructions for use, maintenance, periodic examination, repair, marking and packaging; German version of EN 365:2004, Corrigendum to DIN EN 365: 2004-12; German version of EN 365: 2004 / AC: 2006	
	DIN EN 795 : 1996-08	Protection against falls from a height - Anchor devices - Requirements and testing; German version of EN 795:1996	
	DIN EN 795 / A1 : 2001-01	Protection against falls from a height - Anchor devices - Requirements and testing; Amendment A1; German version of EN 795:1996/A1:2000	
	DIN EN 813 : 2008-11	Personal fall protection equipment - Sit harnesses; German version of EN 813:2008	
	DIN 14920 : 1999-02	Lines for fire-brigades - Requirements, test methods, maintenance	
	DIN 14927 : 2005-09	Belt for positioning for firemen with 2-thorn-buckle and karabiner with multifunctional eye-Requirements, testing	
	DIN EN 358 : 2000-02	Personal protective equipment for work positioning and prevention of falls from a height - Belts for work positioning and restraint and work positioning lanyards; German version of EN 358:1999	
	DIN EN 12841 : 2006-11	Personal fall protection equipment - Rope access systems - Rope adjustment devices; German version of EN 12841:2006	
	DIN 34300 : 2001-04	Rescue equipment - Rescue hooks with safety eyelet holes	

	DIN EN 1496 : 2007-01	Personal fall protection equipment - Rescue lifting devices; German version of EN 1496:2006	
	DIN EN 1497 : 2007-10	Personal fall protection equipment - Rescue harnesses; German version of EN 1497:2007	
	DIN EN 1498 : 2007-01	Personal fall protection equipment - Rescue loops; German version EN of 1498:2006	
	DIN EN 341 : 2011- 09	Personal fall protection equipment - Descender devices for rescue; German version of EN 341:2011	
<i>Heat, fire, cold and mechanical risks</i>			
	DIN EN 420 : 2010- 03	Protective gloves - General requirements and test methods	
	DIN EN 388 : 2003- 12	Protective gloves against mechanical risks	
	DIN EN 407 : 2004- 11	Protective gloves against thermal risks	
	DIN EN 659 : 2008- 06	Protective gloves for firefighters	
	DIN EN 12477 : 2005-09	Protective gloves for welders	
	DIN EN 511 : 2006-07	Protective gloves against cold	Except sections 5.2, 5.4, 5.5, 5.6
<i>Against chemical and biological risks and radioactive contamination</i>			
	DIN EN 374-1 : 2003	Protective gloves against chemicals and micro-organisms – Part 1: Terminology and performance requirements; German version of EN 374-1:2003	
	DIN EN 374-2 : 2003	Protective gloves against chemicals and micro-organisms – Part 2: Determination of resistance to penetration; German version of EN 374-2:2003	
	DIN EN 374-3 : 2003	Protective gloves against chemicals and micro-organisms – Part 3: Determination of resistance to permeation by chemicals	

	DIN EN 374-3 : 2003 Berichtigung 1 : 2006	Protective gloves against chemicals and micro-organisms – Part 3: Determination of resistance to permeation by chemicals German version EN 374-3:2003, Corrigendum to DIN EN 374-3:2003-12; German version of EN 374-3:2003/AC:2006	
	prEN 374-4 : 2010	Protective gloves against chemicals and micro-organisms – Part 4: Determination of resistance to degradation by chemicals	
	DIN EN 420 : 2009	Protective gloves - General requirements and test methods; German version EN of 420:2003+A1:2009	
	DIN EN 388 : 2017	Protective gloves against mechanical risks; German version of EN 388:2003	
	DIN EN 421 : 2010	Protective gloves against ionizing radiation and radioactive contamination	Only radioactive contamination: Sections 4.2.1, 4.2.2, 4.4, 4.5, 4.6
Vibration			
	DIN EN ISO 10819: 1996	Mechanical vibration and shock - Hand-arm vibration - Method for the measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand	
Head protection against			
Heat and mechanical risks			
	DIN EN 397 : 2013-04	05) Industrial safety helmets	
	DIN EN 812 : 2012	03) Industry	
Protective clothing			
Heat and mechanical risks			

	DIN EN ISO 13688: 2013-12	Protective clothing - General requirements	Except Section 4.2e
	DIN EN 343 : 2010-05	Protective clothing - Protection against rain	Except Section 4.3
	DIN EN 469 : 2007-02	Protective clothing for firefighters - Performance requirements for protective clothing for firefighting	Except Section 6.12
	DIN EN ISO 20471. : 2013-09	High-visibility warning clothing for professional use - Test methods and requirements	
	DIN EN 1150 : 1999-02	Visibility clothing for non professional use	Except Section 7.4.5.3
	DIN EN 13356 : 2001-12	Visibility accessories for non-professional use	Except Sections 5.3, 5.4.3
	DIN 58124 : 2010-09	Satchels	Section 5.6 only
	DIN EN 1486 : 2008-04	Protective clothing for fire-fighters - Test methods and requirements for reflective clothing for specialised fire-fighting	Except Sections 4.3.2 and 7.3
	DIN EN ISO 11611: 2015-11	Protective clothing for use in welding and allied processes	Except Section 6.3
	DIN EN ISO 11612: 2015-11	Protective clothing - Clothing to protect against heat and flame	Except Section 6.5.3
	DIN EN ISO 14116: 2015-11	Protective clothing - Protection against heat and flame - Limited flame spread materials, material assemblies and clothing	
	DIN EN 15614: 2007-09	Protective clothing for fire-fighters – Laboratory test methods and performance requirements for protective clothing for wildland fire-fighting	Except Section 8.2
<i>Protective clothing against chemical risks</i>			
	DIN EN 14605 : 2009	Protective clothing against liquid chemicals - Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])	

	DIN EN 13034 : 2009	Protective clothing against liquid chemicals - Performance requirements for chemical protective clothing offering limited protective performance against liquid chemicals (Type 6 and Type PB [6] equipment)	
	DIN EN ISO 13982-1: 2011(ISO 13982-1:2004 + Amd. 1:2010); German Version EN ISO 13982-1:2004 + A1:2010	Protective clothing for use against solid Particles – Part 1: Performance requirements for chemical protective clothing providing protection to the full body against airborne solid particulates (type 5 clothing) (ISO 13981: 2004) + Amd. 1:2010); Deutsche Fassung EN ISO 13982-1:2004 + A1:2010	
	DIN EN ISO 13982-2:2005-03 (ISO 13982-2:2004); Deutsche Fassung EN ISO 13982-2:2004	Protective clothing for use against solid particles - Part 2: Test method for the determination of inward leakage of aerosols of small particles through protective clothing	
	DIN EN 14325 : 2016	Protective clothing against chemicals - Test methods and performance classification of chemical protective clothing materials, seams, joins and assemblages	Except Sections 4.6, 4.8, 4.14, 4.15
	DIN EN 374-3 : 2003	Protective gloves against chemicals and micro-organisms – Part 3: Determination of resistance to permeation by chemicals	
	DIN EN ISO 6529 : 2003 (ISO 6529 : 2001)	Protective clothing - Protection against chemicals - Determination of resistance of protective clothing materials to permeation by liquids and gases (ISO 6529:2001)	Only method A using a standardized permeation rate of 1.0 µg / (cm ² x min)
	prEN ISO 6529 : 2011	Protective clothing - Protection against chemicals - Determination of resistance of protective clothing materials to permeation by liquids and gases (ISO/DIS 6529:2011)	

	DIN EN 6530 : 2005 (ISO 6530:2005); German version EN ISO 6530:2005	Protective clothing - Protection against liquid chemicals - Test method for resistance of materials to penetration by liquids (ISO 6530:2005)	
	DIN EN 943-1: 2015 German version EN 943-01: 2015	Protective clothing against liquid and gaseous chemicals, including liquid aerosols and solid particles - Part 1: Performance requirements for ventilated and non-ventilated 'gas-tight' (Type 1) and 'non-gas-tight' (Type 2) chemical protective suits; German version EN 943-1:2002	
	DIN EN 1073-1: 2016 German version EN 1073-1:2016+AC 2016	Protective clothing against solid airborne particles including radioactive contamination - Part 1: Requirements and test methods for compressed air line ventilated protective clothing, protecting the body and the respiratory tract	
	DIN EN 1073-2: 2002 German version EN 1073-2: 2002	Protective clothing against radioactive contamination - Part 2: Requirements and test methods for non-ventilated protective clothing against particulate radioactive contamination	
	DIN EN ISO 17941-4 : 2016; (ISO 17431-4: 2008+Amd.1:2016) German version EN ISO 174391-4: 2008+A1:2016)	Protective clothing - Test methods for clothing providing protection against chemicals - Part 4: Determination of resistance to penetration by a spray of liquid (spray test)	
	DIN EN ISO 17941-3 : 2008; (ISO 17491-3: 2008); German version EN ISO 17491-3: 2008	Protective clothing - Test methods for clothing providing protection against chemicals - Part 3: Determination of resistance to penetration by a jet of liquid (jet test) (ISO 17491-3 : 2008);	

Foot and leg protection			
	DIN EN ISO 20344: 2013-02	Personal protective equipment - Test methods for footwear	Except Section 5.6, 5.7, 5.11, 5.13, 5.15.2, 5.16, 5.17, 6.5 bis 6.8, 6.10, 6.13, 7.2, 7.3, 8.5
	DIN EN ISO 20345: 2012-04	Personal protective equipment - Safety footwear	Except the above tests DIN EN ISO 20344
	DIN EN ISO 20346: 2014-09	Personal protective equipment - Protective footwear	Except the above tests DIN EN ISO 20344
	DIN EN ISO 20347: 2012-05	Personal protective equipment - Occupational footwear	Except the above tests DIN EN ISO 20344
	DIN EN 14404 2010-05	Personal protective equipment - Knee protectors for work in the kneeling position	
Products in accordance with Annex IV of the Machinery Directive 2006/42/EC			
Personal detection equipment and logic units for safety functions			
<i>Proximity switches for safety functions</i>			
	GS-ET-14 : 2011-06	Supplemental requirements for the testing and certification of proximity switches with safety functions	Excluding Section 4.6 (EMC)
	DIN EN 60947-5-3: 2005-11	Low-voltage switchgear and controlgear – Part 5-3: Control circuit devices and switching elements - Requirements for proximity devices with defined behaviour under fault conditions (PDF)	Excluding Sections 7.2.1.6 (switching frequency) and 8.6 (EMC)

<i>Guard locking devices</i>			
	GS-ET-19 : 2011-02	Principles of testing interlocking devices with solenoid guard- locking	Excluding Section 5.23 (EMC)
	DIN EN ISO 14119: 2011-09	Safety of machinery - Interlocking devices associated with guards - sections 5.2.3, 7.2e - Principles for design and selection	
<i>Enabling devices/release devices</i>			
	GS-ET-22 : 2009-11	Principles of testing Electromechanical enabling switches and enabling devices with and without start-up controllers	Excluding Sections 7.1.7 (PAHs) and 11 (EMC)
<i>Safety relays</i>			
	GS-ET-20 : 2016-10	Supplementary requirements for the testing and certification of safety relays	Excluding Section 4.15 (EMC)
<i>Drive controls</i>			
	DIN EN 61800-5-1 : 2008-04	Adjustable speed electrical power drive Systems – Part 5-1: Safety requirements - Electrical, thermal and energy	Excluding sections 5.2.2.2 (short- circuit testing of PCBs), 5.2.3.3 (partial discharge test), 5.2.3.6 (short-circuit current test), 5.2.5.1 (high-current ignition test), 5.2.5.4 (flammability test)
	DIN EN 61800-5-2 : 2008- 04	Adjustable speed electrical power drive Systems – Part 5-2: Safety requirements - Functional	

Key systems			
	GS-ET-31 : 2010-02	Principles of testing and certification for interlocking devices with key transfer systems	Excluding Sections 5.5.2 (switch disconnectors), 5.15 (EMC), 5.22 (PAHs)
Protective equipment for personal detection			
	DIN IEC 61496-1 : 2012	Safety of machinery - Electro-sensitive protective equipment – Part 1: General requirements and tests, except section 5.4.3.2.x EMC (x for sections on burst, surge, HF, etc.)	
	DIN CLC/TS 61496-2:2008-02	Part 2: Particular requirements for equipment using active opto-electronic protective devices (AOPDs)	Except 5.2.14 Optical radiation safety DIN EN 60825-1, DIN EN 62471
	DIN CLC/TS 61496-3:2009-08	Safety of machinery - Electro-sensitive protective equipment – Part 3: Particular requirements for Active Opto-electronic Protective Devices responsive to Diffuse Reflection (AOPDDR)	Except 5.2.13 Optical radiation safety: DIN EN 60825-1
	DIN IEC 61496-4-2 : 2010-12	Safety of machinery - Electro-sensitive protective equipment – Part 4-2: Particular requirements for equipment using vision based protective devices (VBPD) - additional requirements when using reference pattern techniques	
	IEC 61496-4-3 : 2011 (IEC/TC44/648/DC) : 2011	Safety of machinery - Electro-sensitive protective equipment - Part 4-3: Particular requirements for equipment using vision based protective devices (VBPD) - Additional requirements when using stereo vision techniques (VBPDEST)	

	DIN EN ISO 13856-1 : 2011-08	Safety of machinery - Pressure-sensitive protective devices – Part 1: General principles for the design and testing of pressure-sensitive mats and pressure-sensitive floors	Except Section 7.13.4 (EMC)
	DIN EN ISO 13856-2 : 2011-11	Safety of machinery - Pressure-sensitive protective devices – Part 2: General principles for the design and testing of pressure-sensitive edges and pressure-sensitive bars	Except Section 7.11.4 (EMC)
	DIN EN ISO13856-3 : 2012-03	Safety of machinery - Pressure-sensitive protective devices - Part 3: General principles for the design and testing of pressure-sensitive bumpers, plates, wires and similar devices	Except Section 7.1.11.5 (EMC)
	IFA Test Recommendation / Design 2007	Test recommendations for non-contact protective devices in RDID technology (ESPE-RFID)	
	IFA Test Recommendation / 310248, as of 2001	Recommendations for the testing of ultrasonic sensors for personal protection applications	
<i>Valve blocks serving as logic units for safety functions</i>			
	GS-BIA-M07 : 2004	Principles for the testing and certification of pneumatic / electro-pneumatic valves / valve combinations for safety-related parts of control systems	Except Section 4.6 (EMC)
	DIN EN ISO 13849-1:2008-12	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design	
	DIN EN ISO 13849-2:2008-09	Safety of machinery - Safety-related parts of control systems – Part 2: Validation	
<i>Two-hand control devices</i>			
	DIN EN 574 : 2008-12	Safety of machinery - Two-hand control devices - Functional aspects - Principles for design	
<i>Programmable electronic systems - functional safety (PLCs)</i>			
	DIN EN 61131-6 : 2011-10 (IEC65B/797/CDV:2 011)	Programmable Controllers - Part 6: Functional Safety	

<i>Programmable controls – functional safety and safety modules/devices (logic units and their sensor technology) for the monitoring of safety-related machine process variables and for monitoring of possible hazards on machinery (e.g. overrun/delay, speed, position, distance, laser radiation, etc.</i>			
	DIN EN ISO 13849-1 : 2016-06	Safety of machinery - Safety-related parts of control systems – Part 1: General principles for design	
	DIN EN ISO 13849-2:2013-02	Safety of machinery - Safety-related parts of control systems – Part 2: Validation	
	DIN EN 62061 : 2005-10	Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems	
	DIN EN ISO 61508-1 : 2011-02	Functional safety of electrical/electronic/programmable electronic safety-related systems – Part 1: General requirements, except section 6 FSM as well as all requirements and tests covered by Directive 2006/42/EC	
	DIN EN ISO 61508-2 : 2011-02	Functional safety of electrical/electronic/programmable electronic safety-related systems – Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems	
	DIN EN ISO 61508-3 : 2011-02	Functional safety of electrical/electronic/programmable electronic safety-related systems – Part 3: Software requirements	
<i>Security-related units in communication systems and networks</i>			
	DIN EN 61784-3 : 2012-01	Industrial communication networks – Profiles – Part 3: Functional safety fieldbuses	
	GS-ET-07 / date of issue 2010-03	Principles of testing and certification of wireless control equipment for machinery safety requirements	Except section 4.1.18 (EMC), directive 1999/5/ECG (R&TTE)

Tests and partial tests on Machinery			
Control systems, equipment, safety components and other components (electric, electronic, hydraulic, pneumatic, mechanical)			
<i>Electro-mechanical safety components</i>			
	DIN EN 60947-5-1 : 2010-04	Low-voltage switchgear and controlgear – Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices (only attachment K)	
	GS-ET-15 / as of 2016-10	Supplementary requirements for the testing and certification of positively opening position switches	
	DIN EN 60947-5-5 : 2015-12	Low-voltage switchgear and controlgear – Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function	
	DIN EN 60947-5-8 : 2007-08	Low-voltage switchgear and controlgear – Part 5-8: Control circuit devices and switching elements - Three-position enabling switches	
	DIN EN ISO 13850:2016-05	Safety of machinery - Emergency stop function - Principles for design	
<i>Control systems (electric, electronic, hydraulic, pneumatic)</i>			
	DIN EN ISO 13849-1 : 2016-06	Safety of machinery - Safety-related parts of control systems – Part 1: General principles for design	
	DIN EN ISO 13849-2:2013-02	Safety of machinery - Safety-related parts of control systems – Part 2: Validation	
	DIN EN 62061 : 2005-10	Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems	
	DIN EN ISO 61508-1 : 2011-02	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 1: General requirements, except section 6 FSM as well as all requirements and tests covered by Directive 2006/42/EC	
	DIN EN ISO 61508-2 : 2011-02	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems	

	DIN EN ISO 61508-3 : 2011-02	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 3: Software requirements	
	DIN EN ISO 10218-1 : 2012-01	Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots	
	ISO 15998 : 2008-04	Earth-moving machinery - Machine control systems (MCS) using electronic components - Performance criteria and tests for functional safety	
Hydraulic components and equipment			
	GS-BIA-M13 / Stand 2012-08	Principles for the testing and certification of hydraulic/electrohydraulic valves/valve combinations for safety-related parts of controls	Except section. 4.6 EMC
	DIN EN ISO 4413 : 2011-04	Hydraulic fluid power - General rules and safety requirements for systems and their components	
Pneumatic components and equipment			
	GS-BIA-M07 / date of issue 2012	Principles for the testing and certification of pneumatic/electropneumatic valves/valve combinations for safety-related parts of controls	Except section 4.6 (EMC)
	DIN EN ISO 4414 : 2011-04	Pneumatic fluid power - General rules and safety requirements for systems and their components	
Mechanical components (brakes)			
	GS-MFS-I/2-49 : 2010-07	Principles for the testing and certification of emergency brakes with holding brake function for linear movements	
	GS-BIA-M08 / date of issue 2012-08	Principles for the testing and certification of pneumatic brakes/holding equipment for linear drives	
	GS-HO-01 / as of 2010-09	Principles for the testing and certification of woodworking machines, Annex 1, Appendix 1, Section 3	Excluding section 3.2.8.6 (EMC)

External influences caused by operating and ambient conditions			
	DIN EN 60529 : 2014-09	Degrees of protection provided by enclosures (IP code) without IPxl und 1Px2	
	DIN EN 60068-2-6 : 2008-10	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	
	DIN EN 60068-2-27 : 2010-02	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock (only semisinusoidal)	
	DIN EN 60068-2-64 : 2009-04	Environmental testing - Part 2-64: Tests – Test Fh: Vibration, broadband random and guidance	
Mechanical safety components/Separate protective equipment safeguards			
	DIN EN 953: 2009-07	Safety of machinery - Guards - General requirements for the design and construction of fixed and movable guards	
	DIN EN ISO 23125: 2011-01	Machine tools - Safety - Turning machines - Amendment 1	
	DIN EN 12417: 2009-07	Machine tools - Safety - Machining centres	
	DIN EN 13128 : 2009-09	Safety of machine tools - Milling machines (including boring machines)	
Whole-body vibration			
	DIN EN 14253 : 2003	Mechanical vibration - Measurement and calculation of occupational exposure to whole-body vibration with reference to health - Practical guidance; German version of EN 14253:2003+A1:2007	
	VDI 2057 Blatt 3 : 2012	Human exposure to mechanical vibration - Whole-body vibration at workplaces in buildings	
	DIN EN 1032 : 2003+A1:2008	Mechanical vibration - Testing of mobile machinery in order to determine the vibration emission value (parts governing whole-body vibration), German version of EN 1032: 2003 + A1: 2008 EN 1032 : 2003 + A1 : 2008	

Hand-arm-vibration			
	DIN EN ISO 5349-1 : 2001	Mechanical vibration - Measurement and evaluation of human exposure to hand-transmitted vibration - Part 1: General requirements (ISO 5349-1:2001)	
	DIN EN ISO 20643 2008	Mechanical vibration - Hand-held and hand-guided machinery - Principles for evaluation of vibration emission (ISO 20643:2005)	
	DIN EN ISO 20643/A1 2010-07	Mechanical vibration - Hand-held and hand-guided machinery - Principles for evaluation of vibration emission	
	DIN EN 1032 : 2008	Mechanical vibration - Testing of mobile machinery in order to determine the vibration emission value	(Parts concerning hand arm vibration)
	DIN EN 60745-1 und VDE 0740-1 : 2010-01	Hand-held motor-operated electric tools - Safety - Part 1: General requirements (IEC 60745-1:2006, modified); German version of EN 60745-1:20098	(Only partial vibrations)
	DIN EN ISO 22867: 2008	Forestry machinery - Vibration test code for portable hand-held machines with internal combustion engine - Vibration at the handles (ISO 22867:2004 including Cor 1:2006); German version of EN ISO 22867:2008	
	DIN EN ISO 13753: 2008	Mechanical vibration and shock - Hand-arm vibration - Method for measuring the vibration transmissibility of resilient materials when loaded by the hand-arm system (ISO 13753:1998); German version of EN ISO 13753:2008 + correction 1 (2009)	

Other tests for products			
Loaders			
	DIN EN 1757-3 : 2003-07	Safety of industrial trucks - Pedestrian propelled manual and semi-manual trucks - Part 3: Platform trucks	
3691	DIN EN ISO 3651-5 : 2010-09	Industrial trucks - Safety requirements and verification - Part 5: Pedestrian-propelled trucks	
	GS – Prüfgrundsatz EK5/AK5 06-01.3 : 2011	Manually guided single-axle industrial trucks	
	GS – Prüfgrundsatz EK5/AK5 06-02.2 : 2011	Manually guided multi-axle industrial trucks	
	GS – Prüfgrundsatz EK5/AK5 11-01.0 : 2011	Transport trucks for sports equipment	
Anti-vibration seats for commercial use			
	DIN EN 30326 DIN EN 30326-1/A1 DIN EN 30326-1/A2 1994	Mechanical vibration - Laboratory method for evaluating vehicle seat vibration - Part 1: Basic requirements (ISO 10326-1: 1992); German version of EN 30326-1: 1994 and correction 11	
Mechanical safety components			
	DIN EN 953 : 2009-07	Safety of machinery - Guards - General requirements for the design and construction of fixed and movable guards	
	DIN EN ISO 23125: 2011-01	Machine tools - Safety - Turning machines - Amendment 1	
	DIN EN 12417 : 2009-07	Machine tools - Safety - Machining centres	
	DIN EN 13128 : 2009-09	Safety of machine tools - Milling machines (including boring machines)	

Extraction systems			
<i>Welding fume equipment</i>			
	DIN EN ISO 15012-1: 2005-03	Health and safety in welding and allied processes - Requirements, testing and marking of equipment for air filtration - Part 1: Testing of the separation efficiency for welding fume	
<i>Vacuum cleaners for industrial and commercial use and dust extractors</i>			
	DIN EN 60335-2-69: 2010-01	Household and similar electrical appliances - Safety - Part 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush, for commercial use - principles of dust tests (filtration and explosion protection) are found in Annexes AA and CC of DIN EN 60335-2-69	
Other products			
<i>Abrasive products</i>			
	DIN EN 12413 : 2011-05	Safety requirements for bonded abrasive products	
	DIN EN 13236 : 2011-02	Safety requirements for superabrasive products employing diamond or boron nitride	
	DIN EN 13743 : 2009-07	Safety requirements for coated abrasive products	
	DIN EN 847-1 : 2007-11	Tools for woodworking - Safety requirements - Part 1: Milling tools, circular saw blades	
	DIN EN 1083-2 : 1997-02	Power driven brushes - Part 2: Safety requirements	
<i>Anti-slip floor coverings</i>			
	DIN 51130 : 2010-10	Testing of floor coverings - Determination of the anti-slip property - Workrooms and fields of activities with slip danger, walking method - Ramp test	

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	DIN 51131 : 2008-08	Testing of floor coverings - Determination of the anti-slip property - Method for measurement of the sliding friction coefficient	
	DIN 51097 : 1992-11	Testing of floor coverings; determination of the anti-slip properties; wet-loaded barefoot areas; walking method; ramp test	
	BGR 181 : 2003-10	Floors in working premises and working areas presenting a risk of slipping	
	BGI/GUV-I 8687 : 2011-01	Assessment of the risk of slipping under plant conditions	

Abbreviations used:

GS test principles, KBS internal procedure