

List of standards and other documents in the field of noise measurements for which equipment can be used

Methods for monitoring and measuring noise exposure on humans and environment

Document no.	Document title	Measurands	Technical regulation
GOST 20444-2014	Noise. Traffic stream. Methods for noise characteristic measuring	Equivalent and maximum sound levels, equivalent sound pressure levels in octaves of 31.5-8000 Hz, the sound exposure level.	Safety of buildings and structures
GOST 22283-2014	Aviation noise. Permissible noise levels in residential areas and methods of its measurement.	Equivalent and maximum sound levels.	
GOST 23337-2014	Noise. Methods of noise measuring in the residential area and in the premises of residential and public buildings.	Equivalent and maximum sound levels, equivalent sound pressure levels in octaves of 31.5-8000 Hz, the sound exposure level, corrected (estimated noise levels).	Safety of buildings and structures
GOST 31297-2005 (ISO 8297:1994)	Noise. Engineering method of determination of sound power levels of multisource industrial plants for evaluation of sound pressure levels in the environment.	Sound power levels in octave bands, corrected sound power level.	
GOST 31296.1-2005 (ISO 1996-1:2003)	Noise. Description, measurement and assessment of environmental noise. Part 1. Basic quantities and assessment procedures.	Sound level, maximum sound level, N percent exceedance level, peak C-weighted sound level, the sound exposure level, equivalent sound level, estimated level of noise exposure, equivalent estimated level.	
GOST 31296.2-2006 (ISO 1996-2:2007)	Noise. Description, measurement and assessment of environmental noise. Part 2. Determination of environmental noise levels.	Sound level, maximum sound level, N percent exceedance level, peak C-weighted sound level, sound exposure level, equivalent sound level.	
GOST R ISO 9612-2013	Acoustics. Noise measuring to estimate exposure on humans. Method of measurement at worksites.	Equivalent sound level, equivalent sound level over an 8-hour working day.	

Measuring methods for building acoustics

Document no.	Document title	Measurands	Technical regulation
GOST 27296-2012	Buildings and constructions. Methods for measurement of sound insulation of protecting designs	Airborne sound insulation (R), normalized level of impact noise (Ln)	Safety of buildings and structures
GOST R ISO 3382-1-2013	Acoustics. Measurement of room acoustic parameters. Part 1. Performance spaces	Reverberation time	Safety of buildings and structures
GOST R ISO 3382-2-2013	Acoustics. Measurement of room acoustic parameters. Part 2. Reverberation time in ordinary rooms	Reverberation time	
GOST R ISO 3382-3-2013	Acoustics. Measurement of room acoustic parameters. Part 3. Open plan offices	STI, distraction distance, privacy distance, spatial decay rate of speech, A-weighted sound pressure level of speech at a distance of 4 m	
IEC 60268-16:2011	Sound system equipment – Part 16: Objective rating of speech intelligibility by speech transmission index	STI	
GOST 31704-2011 (ISO 354:2003)	Sound absorbing materials. Sound absorption measurement method in reverberation room	Reverberation time, equivalent sound absorption area, sound absorption coefficient	
GOST R ISO 10140-1-2012	Acoustics. Laboratory measurement of sound insulation of building elements. Part 1. Testing rules for specific products		
GOST R ISO 10140-2-2012	Acoustics. Laboratory measurement of sound insulation of building elements. Part 2. Measurement of airborne sound insulation	Acoustic insulation (R), normalized level difference	
GOST R ISO 10140-3-2012	Acoustics. Laboratory measurement of sound insulation of building elements. Part 3. Measurement of impact sound insulation	Normalized level of impact noise (Ln)	
GOST R ISO 10140-4-2012	Acoustics. Laboratory measurement of sound insulation of building elements. Part 4. Measurement methods and procedures	Sound-pressure level, airborne sound insulation, impact noise insulation.	
GOST R ISO	Buildings and constructions. Methods for measurement of sound insulation of protecting designs		

10140-5-2012			
GOST R ISO 10848-1-2012	Acoustics. Laboratory measurement of the flanking transmission of airborne and impact sound between adjoining rooms. Part 1. Basic provisions	Normalized flanking level difference, normalized flanking impact sound pressure level, structural reverberation time, vibration reduction index for structural excitation and for excitation by air noise.	
GOST 28100-2007 (ISO 7235:2003)	Acoustics. Laboratory measurements for ducted silencers and air-terminal units. Insertion loss, flow noise and total pressure loss	Flow noise sound power level, excited by the silencer, total pressure loss	Safety of buildings and structures
GOST 33328-2015	Acoustical barriers for railway transport. Methods of control	Sound-pressure level, panel soundproofing, panel sound absorption, noise reduction, acoustic efficiency	
GOST 30690-2000	Removable acoustical screens. Methods for determination of the in situ sound attenuation	Sound-pressure level, sound reduction	
GOST R 51943-2002	Acoustical barriers for transport noise reduction. Experimental methods for determination of insertion loss	Sound-pressure level, screen efficiency	

Methods for measuring noise characteristics of machines and equipment

General requirements

Document no.	Document title	Measurands	Technical regulation
GOST 30691-2001 (ISO 4871-96)	Noise of machines. Declaration and verification of noise emission values		TR TS 010/2011
GOST 23941-2002	Noise of machines. Methods for determination of noise characteristics. General requirements	Time-averaged A-weighted sound power level L_{WA} , sound power level in octaves L_W , the A-weighted emission sound pressure level L_{pA} , sound- pressure level in octaves L_p , C-weighted peak emission sound pressure level	TR TS 010/2011, TR TS 002/2011, TR TS 003/2011
GOST 31327-2006 (ISO 11689:1996)	Noise of machines. Procedure for the comparison of noise-emission data for machinery and equipment		TR TS 010/2011

Basic methods for measuring the sound power of machines

Document no.	Document title	Measurands	Technical regulation
GOST 31252-2004 (ISO 3740:2000)	Noise of machines. Guidelines for the selection of method for the determination of sound power levels	Time-averaged A-weighted sound power level L_{WA} , sound power level in octaves L_w	
GOST 31273-2003 (ISO 3745:2003)	Noise of machines. Determination of sound power levels using sound pressure. Precision methods for anechoic and semi-anechoic rooms		TR TS 010/2011
GOST ISO 3745-2014	Acoustics. Determination of sound power levels and sound energy levels of noise sources using sound pressure. Precision methods for anechoic rooms and hemi-anechoic rooms		
GOST 31274-2004 (ISO 3741:1999)	Noise of machines. Determination of sound power levels using sound pressure. Precision methods for reverberation rooms		TR TS 010/2011
GOST R ISO 3741-2013	Acoustics. Determination of sound power levels and sound energy levels of noise sources using sound pressure. Precision methods for reverberation test rooms		
GOST 31275-2002 (ISO 3744:1994)	Noise of machines. Hand-held non-electric power tools. Engineering method for the measurement of noise		TR TS 010/2011
GOST 31276-2002 (ISO 3743-1:1994, ISO 3743-2:1994)	Noise of machines. Acceptance test code for gear units for airborne sound		TR TS 010/2011
GOST R ISO 3743-1-2013	Acoustics. Determination of sound power levels and sound energy levels of noise sources using sound pressure. Engineering methods for small movable sources in reverberant fields. Part 1. Comparison method for a hard-wall test room		
GOST 31277-2002 (ISO 3746:1995)	Noise of machines, Determination of power levels of noise sources using sound pressure. Survey method using an enveloping measurement surface over a reflecting plane		TR TS 010/2011
GOST R ISO 3746-2013	Acoustics. Determination of sound power levels and sound energy levels of noise sources using sound pressure. Survey methods using an enveloping measurement surface over a reflecting plane		

GOST 27243-2005 (ISO 3747:2000)	Noise of machines. Determination of sound power levels using sound pressure. Comparison method in situ		
GOST R ISO 3747-2013	Acoustics. Determination of sound power levels and sound energy levels of noise sources using sound pressure. Engineering/survey methods for use in situ in a reverberant environment		
GOST 30457-97 (ISO 9614-1-93)	Acoustics. Determination of sound power levels of noise sources using sound intensity. Measurement at discrete points. Engineering method		TR TS 010/2011
GOST 30457.3-2006 (ISO 9614-3:2002)	Acoustics. Determination of sound power levels of noise sources using sound intensity. Part 3. The exact method for measuring by scanning		

Basic procedures for measuring the sound pressure of machines

Document no.	Document title	Measurands	Technical regulation
GOST 31171-2003 (ISO 11200:95)	Noise of machines. Guidelines for the selection of method for the determination of emission sound pressure levels at a work station and at other specified positions	Sound-pressure level, sound level	
GOST 31172-2003 (ISO 11201:95)	Noise of machines. Measurement of emission sound pressure levels at a work station and at other specified positions. Engineering method in an essentially free field over a reflecting plane		TR TS 010/2011
GOST 31169-2003 (ISO 11202:95)	Noise of machines. Measurement of emission sound pressure levels at a work station and at other specified positions. Survey method in situ	Sound level (L_{pA} , $L_{pC,peak}$)	
GOST 30683-2000 (ISO 11204:95)	Noise of machines. Measurement of emission sound pressure levels at a work station and at other specified positions. Method requiring environmental corrections		TR TS 010/2011
GOST 30720-2001 (ISO 11203:95)	Noise of machines. Measurement of emission sound pressure levels at a work station and at other specified positions by sound power level	Computational method	

Requirements and methods for controlling specific types of machines

Document no.	Document title	Measurands	Technical regulation
GOST 2.2.030-2000	Occupational safety standards system. Manual machines. Noise characteristics. Norms. Test methods	Time-averaged A-weighted sound power level L_{WA}	TR TS 010/2011
GOST 31337-2006 (ISO 15744:2002)	Noise of machines. Hand-held non-electric power tools. Engineering method for the measurement of noise	Time-averaged A-weighted sound power level L_{WA} and sound emission level	TR TS 010/2011
GOST R ISO 22868-2014	Noise of machines. Noise test engineering method for portable hand-held forest and garden machines with internal combustion engine	Sound emission level	TR TS 010/2011 (GOST R ISO 22868-2007)
GOST ISO 7917-2002	Forestry machinery. Gasoline brush - saws. Sound pressure test methods	Sound level	TR TS 010/2011
GOST ISO 16902-1-2006	Noise of machines. Engineering method for determination of the sound power levels of pumps using sound intensity techniques	Sound power level, sound intensity	TR TS 010/2011
GOST ISO 230-5-2002	Test code for machine tools. Part 5. Determination of the noise emission	Corrected noise levels, corrected sound power levels	TR TS 010/2011
GOST 32109-2013 (ISO 8579-1:2002)	Noise of machines. Acceptance test code for gear units for airborne sound	Sound emission levels, sound power levels	
GOST 28975-91 (ISO 6395-88)	Acoustics. Measurement of exterior noise emitted by earth-moving machinery. Dynamic test conditions	Corrected noise levels, corrected sound power levels	
GOST ISO 9533-2012	Earth-moving machinery. Machine-mounted audible travel alarms and forward horns. Test methods and performance criteria	Corrected noise levels and sound pressure in 1/3-octave frequency bands	
GOST 30163.0-95 (IEC 704-1-82)	Household and similar electrical appliances. Test code for the determination of airborne acoustical noise. Part 1. General requirements		
GOST IEC 60704-2-1-2013	Household and similar electrical appliances. Test code for the determination of airborne acoustical noise. Part 2-1. Particular requirements for vacuum cleaners	Sound levels, sound pressure and sound power levels	
GOST IEC 60704-2-2-2012	Household and similar electrical appliances. Test code for the determination of airborne acoustical noise. Part 2-2. Particular requirements for fan heaters		

GOST IEC 60704-2-3-2013	Household and similar electrical appliances. Test code for the determination of airborne acoustical noise. Part 2-3. Particular requirements for dishwashers		
GOST IEC 60704-2-4-2013	Household and similar electrical appliances. Test code for the determination of airborne acoustical noise. Part 2-4. Particular requirements for washing machines and spin extractors		
GOST 30575-98	Marine, locomotive and industrial diesel engines. Methods of measuring and estimating the airborne noise	Levels of sound and sound pressure in octave bands of frequencies 63 Hz - 8000 Hz	maritime safety
GOST 31298.1-2005 (ISO 11546-1:1995)	Noise of machines. Determination of sound insulation performances of enclosures. Part 1. Measurements under laboratory conditions for declaration of noise performance values	Sound pressure insulation, Sound power insulation	
GOST 31298.2-2005 (ISO 11546-2:1995)	Noise of machines. Determination of sound insulation performances of enclosures. Part 2. Measurements in situ for acceptance and verification of declared noise performance values		
GOST 31299-2005 (ISO 11957-1996)	Noise of machines. Determination of sound insulation performances of cabins. Laboratory and in situ test	Sound pressure insulation	
GOST 31326-2006 (ISO 15667:2000)	Noise. Guidelines for noise control by enclosures and cabins	Sound pressure insulation, sound power insulation	
GOST 31300-2005 (EN 12639:2000)	Noise of machines. Liquid pumps. Noise tests	Corrected sound power levels and emission sound levels	TR TS 010/2011
GOST 31324-2006 (ISO 11820:1996)	Noise. Determination of performances of silencers in situ tests	Insertion loss, transmission loss, insertion sound pressure level difference	
GOST R 52799-2007 (ISO 11691:1995)	Noise. Measurement of insertion loss of ducted silencers without flow. Laboratory survey method	Insertion loss	
GOST 31328-2006 (ISO 14163:1998)	Noise. Guidelines for noise control by silencers		

GOST 31325 - 2006 (ISO 4872:1978)	Noise. Measurement of noise emitted by construction equipment intended for outdoor use. Method for determining compliance with noise limits	Corrected noise and sound pressure and sound levels	TR TS 010/2011
GOST 31336-2006 (ISO 2151:2004)	Noise of machines. Engineering methods for measurement of noise of compressors and vacuum pumps	Sound power, sound pressure and sound levels	TR TS 010/2011
GOST 31338-2006	Acoustics. Determination of sound power levels of noise from air-terminal devices, air-terminal units, dampers and valves by measurement in a reverberation room	Sound power levels	
GOST 31352-2007 (ISO 5136:2003)	Noise of machines. Determination of sound power levels radiated into a duct by fans and other air-moving devices using in-duct method		TR TS 010/2011
GOST 31353.1-2007 (ISO 13347-1:2004)	Noise of machines. Industrial fans. Determination of sound power levels under laboratory conditions. Part 1. General characteristic of method		TR TS 010/2011
GOST 31353.2-2007 (ISO 13347-2:2004)	Noise of machines. Industrial fans. Determination of sound power levels under laboratory conditions. Part 2. Reverberant method		TR TS 010/2011
GOST 31353.3-2007 (ISO 13347-3:2004)	Noise of machines. Industrial fans. Determination of sound power levels under laboratory conditions. Part 3. Enveloping surface method		TR TS 010/2011
Document no.	Document title	Measurands	Technical regulation
GOST 31353.4-2007 (ISO 13347-4:2004)	Noise of machines. Industrial fans. Determination of sound power levels under laboratory conditions. Part 4. Sound intensity method		TR TS 010/2011
GOST 31543-2012	Metal forging machines. Noise characteristics and methods of their determination	Sound Levels and sound pressure level in octave frequency bands	TR TS 010/2011
GOST 32110-2013 (ISO 11094-1991)	Noise of machines. Test code for the measurement of airborne noise emitted by private and professional power lawn mowers and lawn and garden tractors with mowing attachments	Corrected noise levels and sound power levels	TR TS 010/2011
GOST 32111.1-2013 (ISO 13261-1:1998)	Noise of machines. Sound power rating of air-conditioning and air-source heat pump equipment. Part 1. Non-ducted outdoor equipment	Sound power levels in octave frequency bands, corrected sound power level	TR TS 010/2011

GOST 32111.2-2013 (ISO13261-2:1998)	Noise of machines. Sound power rating of air-conditioning and air-source heat pump equipment. Part 2. Non-ducted indoor equipment		TR TS 010/2011 (GOST R 52894.2)
GOST 32112-2013	Acoustics. Determination of noise performance for air-terminal devices. Precision methods for anechoic rooms	Corrected sound power levels, sound power levels in octaves (method according to ISO 3745)	TR TS 010/2011 (GOST R 52987)
GOST 31420-2010 (ISO 8528-10:1998)	Noise of machines. Reciprocating internal combustion engine driven alternating current generating sets. Measurement of airborne noise by the enveloping surface method	Sound power levels, sound-pressure level emission	TR TS 010/2011 (GOST R 52988)
GOST R 53032-2008 (ISO 7779:1999)	Noise of machines. Measurement of noise emitted by information technology and telecommunications equipment	Sound power levels	
GOST R 53575 (IEC 60268:2003)	Loudspeakers. Methods of electroacoustic tests	Frequency response, impedance, sound pressure frequency response, resonance frequency, quality factor, etc.	

Aircraft noise test methods

Document no.	Document title	Measurands	Technical regulation
GOST 17229-2014	Passenger and transport aeroplanes. Determination of noise levels on ground	Effective perceived noise level EPNL	
GOST 17228-2014	Passenger and transport aeroplanes. Acceptable noise levels on ground		
GOST 23023-85	Light-weight propeller aeroplanes. Acceptable noise levels on ground and methods for its determination	Sound levels L _A	
GOST 20296-2014	Aircraft and helicopter of civil aviation. Acceptable noise levels in flight decks and in salons and methods of noise measurement	Sound levels and sound-pressure level in octaves of 31.5-8000 Hz	
GOST 24646-81	Transport supersonic aircrafts. Acceptable noise levels on the ground and method of noise level determination	Effective perceived noise level EPNL	
GOST 24647-2014	Helicopters of civil aviation. Permissible noise levels and methods for determining noise levels on the ground		

Methods for testing the noise of water transport

Document no.	Document title	Measurands	Technical regulation
GOST 31329-2006	Noise. Measurement of airborne sound emitted by vessels on inland waterways and harbours	A-weighted sound exposure level(LAE), maximum AS-weighted sound pressure level(LpASmax)	TR TS 026/2012
GOST R 53646-2009 (ISO 14509-2000)	Noise of machines. Measurement of airborne sound emitted by powered small recreational craft	Maximum AS-weighted sound pressure level(LpASmax)	
GOST ISO 14509-1:2008	Small craft. Measurement of airborne sound emitted by powered recreational craft. Part 1. Pass-by measurement procedures	Maximum AS-weighted sound pressure level(LpASmax)	TR TS 026/2012
GOST ISO 14509-2-2015	Small craft. Measurement of airborne sound emitted by powered recreational craft. Part 2. Sound assessment using reference craft	Maximum AS-weighted sound pressure level(LpASmax)	TR TS 026/2012
GOST ISO 14509-3-2015	Small craft. Measurement of airborne sound emitted by powered recreational craft. Part 3. Sound assessment using calculation and measurement procedures	Maximum AS-weighted sound pressure level(LpASmax)	TR TS 026/2012
GOST 30575-98	Marine, locomotive and industrial diesel engines. Methods of measuring and estimating the airborne noise	Sound-pressure level	Maritime safety

Methods of testing the noise of vehicles and tractors

Document no.	Document title	Measurands	Technical regulation
GOST R 41.28-99	Uniform provisions concerning the approval of audible warning devices and of motor vehicles with regard to their audible signals	Sound Levels (LAF), sound-pressure level in the frequency range of 1800 Hz - 3550 Hz	TR TS 018/2011 (UN Regulation No.28)
GOST R 41.41-2001 (UN Regulation No. 41)	Uniform provisions concerning the approval of motor cycles with regard to noise	Sound level (LAF)	TR TS 018/2011 (UN Regulation No. 41)
GOST R 41.51-2004 (UN Regulation No. 51)	Uniform provisions concerning the approval of motor vehicles having at least four wheels with regard to their noise emissions		TR TS 018/2011 (UN Regulation No. 51)

GOST R 41.63-99 (UN Regulation No. 63)	Uniform provisions concerning the approval of mopeds with regard to noise		TR TS 018/2011 (UN Regulation No. 63)
GOST R 41.9-99 (UN Regulation No. 9)	Uniform provisions concerning the approval of category L2, L4 and L5 vehicles with regard to noise		TR TS 018/2011 (UN Regulation No.9)
GOST R 51616-2000	Motor vehicles. Internal noise. Permissible levels and methods of tests	Sound level (L_{AF})	TR TS 018/2011
GOST R 52231-2004	External noise of motor vehicles. Permissible levels and methods of measurement	Sound level (L_{AF})	
GOST R 51920-2002	Agricultural and forestry tractors. External sound. Rate and evaluation methods	Sound level (L_{AF})	
GOST R 52800-2007 (ISO 13325:2003)	Noise. Coast-by methods for measurement of tyre-to-road sound emission	Sound level (L_{AF})	
GOST 31333-2006 (ISO 7188:1994)	Noise of machines. Measurement of noise emitted by passenger cars under conditions representative of urban driving	Characteristic level of car sound	
GOST ISO 362-2006	Noise. Measurement of noise emitted by accelerating road vehicles. Engineering method	Sound level (L_{AF})	

Methods for testing the noise of railway transport

Document no.	Document title	Measurands	Technical regulation
GOST R 50951-96	Outside noise emitted by the main-line and shunting diesel locomotives. Measuring rates and methods	Maximum AS-weighted sound pressure level (L_{AF}), sound pressure level in octaves 500, 1000, 2000 Hz	TR TS 01/2011
GOST 32206-2013	Special railway rolling stock. Outdoor noise. Measuring standards and methods of determination		TR TS 01/2011
GOST 32203-2013 (ISO 3095:2005)	Railway rolling stock. Acoustics. Measurement of outward noise	Equivalent sound level, sound exposure level, maximum sound level	
GOST 12.2.056-81	Occupational safety standards system. Electric and diesel	Sound levels and sound-pressure level in octaves of 31.5 - 8000 Hz	TR TS 01/2011, TR TS 02/2011

	locomotives for 1520 mm gauge. Safety requirements		
GOST R 55434-2013	Electrical trains. General technical requirements	Sound levels and sound-pressure level in octaves of 31.5 - 8000 Hz	TR TS 01/2011, TR TS 02/2011
GOST 33321-2015	Railway rolling stock. Acoustic signaling devices. General specifications	Frequency of the main tone, sound pressure level	TR TS 01/2011, TR TS 02/2011

Methods of testing PPE for hearing organs

Document no.	Document title	Measurands	Technical regulation
GOST 12.4.275-2014	Occupation safety standards system. Personal hearing protective equipment. General technical requirements. Test methods	Acoustic efficiency according to GOST EN 13819-2	
GOST EN 13819-2-2014	Occupation safety standards system. Personal hearing protectors. Acoustic test methods	Acoustic efficiency in 1/3-octave bands of frequencies of 250 Hz - 8000 Hz	
GOST R12.4.211-99 (ISO 4869-1-94)	Occupational safety standards system. Hearing protectors. Subjective method for the measurement of sound attenuation	Noise absorption in 1/3-octave bands of frequencies 125 Hz - 8000 Hz	TR TS 019/2011
GOST R 12.4.212-99 (ISO 4869-2-94)	Occupational safety standards system. Hearing protectors. Estimation of effective A-weighted sound pressure levels when hearing protectors are worn		TR TS 019/2011
GOST R 12.4.213-99 (ISO 4869-3-89)	Occupational safety standards system. Hearing protectors. Simplified method for the measurement of insertion loss off ear-muff type protectors for quality inspection purposes	Acoustic efficiency in 1/3-octave bands	TR TS 019/2011

List of standards and other documents in the field of vibration measurement techniques

Measuring the vibration exposure on human

Document no.	Document title	Measurands	Technical regulation
GOST 12.1.012-2004	Occupational safety standards system. Vibration safety. General requirements	No	TR TS 010/2011
GOST ISO 8041-2006	Vibration. Human response to vibration. Measuring instrumentation	Corrected acceleration of general, local and low-frequency vibrations	

GOST 31191.1-2004(ISO 2631-1:1997)	Vibration and shock. Measurement and evaluation of human exposure to whole-body vibration. Part 1. General requirements	Corrected acceleration of the total vibration, vibration dose value VDV (Wk, Wd, Wf, Wc, We, Wj)	TR TS 010/2011
GOST 31319-2006 (EN 14253:2003)	Vibration. Measurement and evaluation of human exposure to whole-body vibration. Practical guidance for measurement at the workstation	Corrected acceleration of the total vibration, equivalent acceleration (per shift)	TR TS 010/2011
GOST 31191.5-2006(ISO 2631-5:2004)	Vibration and shock. Measurement and evaluation of human exposure to whole-body vibration. Part 5. Vibration containing multiple shocks	Acceleration signal, peak acceleration value, acceleration dose	TR TS 010/2011
GOST 31192.1-2004 (ISO 5349-1:2001)	Vibration. Measurement and evaluation of human exposure to hand-transmitted vibration. Part 1. General requirements	Corrected acceleration of local vibration (Wh)	TR TS 010/2011
GOST 31192.2-2005 (ISO 5349-2:2001)	Mechanical vibration - Measurement and evaluation of human exposure to hand-transmitted vibration - Part 2: Practical guidance for measurement at the workstation	Corrected acceleration of local vibration (Wh), full vibration	TR TS 010/2011
GOST 31191.2-2004 (ISO 2631-2:2003)	Vibration and shock. Measurement and evaluation of human exposure to whole-body vibration. Part 2. Vibration in buildings	Corrected vibration acceleration (Wm)	
Recomendations 4.3.3221-14	Instrumental control and vibration assessment in residential and public buildings	Corrected vibration acceleration (Wm)	
GOST 31191.4-2006 (ISO 2631-4:2001)	Vibration and shock. Measurement and evaluation of human exposure to whole-body vibration. Part 4. Guidelines for evaluation of the effects of vibration on passengers and crew comfort in rail vehicles	Corrected acceleration(Wk, Wb)	TR TS 001/2011
GOST R ISO 6954-2009	Vibration. Guidelines for the measurement and evaluation of vibration with regard to habitability on passenger and merchant ships	Corrected acceleration(Wm)	

Measuring the vibration characteristics of hand machines

Document no.	Document title	Measurands	Technical regulation
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GOST 16519-2006 (ISO 20643:2005)	Vibration. Testing of hand-held or hand-guided machinery in order to determine the hand-transmitted vibration value. General requirements		TR TS 010/2011
GOST R ISO 28927-2-2012	Mechanical vibration. Evaluation of vibration emission of hand-held power tools. Part 2. Wrenches, nutrunners and screwdrivers		TR TS 010/2011
GOST R ISO 28927-3-2012	Vibration. Evaluation of vibration emission of hand-held power tools. Part 3. Polishers and rotary, orbital and random orbital sanders		TR TS 010/2011
GOST ISO 28927-4-2013	Mechanical vibration. Evaluation of vibration emission of hand-held power tools. Part 4. Straight grinders		TR TS 010/2011 (GOST 30873.4)
GOST R ISO 28927-5-2012	Mechanical vibration. Evaluation of vibration emission of hand-held power tools. Part 5. Drills and impact drills		TR TS 010/2011
GOST R ISO 28927-6-2012	Mechanical vibration. Evaluation of vibration emission of hand-held power tools. Part 6. Rammers		TR TS 010/2011
GOST R ISO 28927-7-2012	Mechanical vibration. Evaluation of vibration emission of hand-held power tools. Part 7. Nibblers and shears	The rms value of the corrected acceleration for each direction, total rms acceleration value (Wh)	TR TS 010/2011
GOST R ISO 28927-8-2012	Mechanical vibration. Evaluation of vibration emission of hand-held power tools. Part 8. Saws, polishing and filing machines with reciprocating action and small saws with oscillating or rotating action		TR TS 010/2011
GOST R ISO 28927-10-2013	Mechanical vibration. Evaluation of vibration emission of hand-held power tools. Part 10. Percussive drills, hammers and breakers		TR TS 010/2011
GOST ISO 28927-11-2013	Mechanical vibration. Evaluation of vibration emission of hand-held power tools. Part 11. Stone hammers		TR TS 010/2011 (GOST 30873.14)
GOST ISO 28927-12-2014	Mechanical vibration. Evaluation of vibration emission of hand-held power tools. Part 12. Die grinders		TR TS 010/2011 (GOST 30873.13)
GOST 30873.11-2006 (ISO 8662-11:1999)	Hand-held portable power tools. Measurement of vibrations at the handle. Part 11. Fastener driving tools		TR TS 010/2011
GOST ISO 22867-2014	Mechanical vibration. Evaluation of vibration emission of hand-held power tools. Forestry machines with internal combustion engine		TR TS 010/2011 (GOST 31348)

Measuring the vibration characteristics of self-propelled machines

Document no.	Document title	Measurands	Technical regulation
GOST 31193–2004 (EN 1032:2003)	Vibration. Testing of mobile machinery in order to determine the vibration emission value. General requirements	The rms value of the corrected acceleration (Wk, Wd, Wh)	TR TS 010/2011
GOST 31323–2006 (ISO 5008:2002)	Vibration. Testing of mobile machinery in order to determine the vibration emission value. Agricultural wheeled tractors and field machinery	The rms value of the corrected acceleration (Wk, Wd)	TR TS 010/2011
GOST R 55855-2013	Motor vehicles. Methods for measuring and estimating total vibration	The rms value of the corrected acceleration (Wk, Wd)	
GOST ISO 10326-1-2002	Vibration. Laboratory method for evaluating vehicle seat vibration. Part 1. Basic requirements	SEAT factor, transmissibility at resonance; corrected value	TR TS 010/2011
GOST 31318-2006 (EN 13490:2001)	Vibration. Laboratory evaluation of operator seat vibration. Industrial trucks	SEAT factor	TR TS 010/2011
GOST 31316-2006 (ISO 5007:2003)	Vibration. Laboratory evaluation of operator seat vibration. Agricultural wheeled tractors	SEAT factor, transmissibility at resonance; Wk correction	
GOST 27259-2006 (ISO 7096:2000)	Vibration. Laboratory evaluation of operator seat vibration. Earth-moving machinery	SEAT factor, transmissibility at resonance; Wk correction	
GOST 31248–2004 (ISO 10056:2001)	Vibration. Measurement and analysis of whole-body vibration to which passengers and crew are exposed in railway vehicles	The rms value of the corrected acceleration (Wk, Wd, Wb)	TR TS 001/2011
GOST 31317.2-2006 (ISO 10326-2:2001)	Vibration. Laboratory method for evaluating vehicle seat vibration. Part 2. Railway vehicle seats	Frequency response, coherence function, transmission factors	
GOST R 53080-2008 (EN 13059:2002)	Vibration. Testing of mobile machinery in order to determine the vibration emission value. Industrial trucks	The rms value of the corrected acceleration in vertical direction (Wk)	TR TS 001/2011

Vibration measurement on ships

Document no.	Document title	Measurands	Technical regulation
ND №2-020101-040	Rules for technical supervision of the ships construction and the manufacture of materials and products for ships. Volume 3.	RMS acceleration or speed in 1/3-octave frequency bands	

	Part V. Technical supervision of ships construction.		
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Measuring the vibration characteristic of stationary machines

Document no.	Document title	Measurands	Technical regulation
GOST ISO 10816-1-97	Mechanical vibration. Evaluation of machine vibration by measurements on non-rotating parts. Part 1. General guidelines	vibration acceleration, vibration velocity, vibration displacement	
GOST ISO 2954-2014	Mechanical vibration. Condition monitoring of machinery using measurements made on non-rotating parts. Requirements for instruments	RMS and peak acceleration values, speed and displacement in the range of 10-1000 Hz	
GOST R 55265.2-2012 (ISO 10816-2:2009)	Mechanical vibration. Evaluation of machine vibration by measurements on non-rotating parts. Part 2. Land-based steam turbines and generators in excess of 50 MW with normal operating speeds of 1500 r/min, 1800 r/min, 3000 r/min and 3600 r/min		
GOST ISO 10816-3-2002	Vibration. Evaluation of machine vibration by measurements on non-rotating parts. Part 3. Industrial machines with nominal power above 15 kW and nominal speeds between 120 r/min and 15000 r/min		
GOST ISO 10816-4-2002	Vibration. Evaluation of machine vibration by measurements on non-rotating parts. Part 4. Gas turbine driven sets		TR TS 010/2011
GOST IEC 60034-14-2014	Rotating electrical machines. Part 14. Mechanical vibration of certain machines with shaft heights 56 mm and higher. Measurement, evaluation and limits of vibration severity	RMS and peak acceleration values, speed and displacement in the range of 10-1000 or 2-1000 Hz.	TR TS 010/2011
GOST 31350-2007 (ISO 14694:2003)	Vibration. Industrial fans. Requirements for vibration levels and balance quality	Vibration speed, vibration displacement, vibration acceleration	TR TS 010/2011
GOST 30938-2002	Compressor equipment. Determination of vibration characteristics of small and medium-sized reciprocating compressors and vibration norms	Vibration speed, vibration displacement, vibration acceleration	TR TS 010/2011

Vibration measurement of buildings and structures

Document no.	Document title	Measurands	Technical regulation
GOST R 52892-2007	Vibration and shock. Vibration of buildings. Measurement of vibration and evaluation of its exposure on the structure	Peak value of the speed, frequency of the dominant component	Safety of buildings and structures
GOST R 53964-2010	Vibration. Measurements of structures vibration. Measurement Guide	Peak value of the speed, corrected acceleration RMS value	
GOST R 53963.1-2010	Mechanical vibration. Measurement of vibrations in buildings. Requirements for measuring instrumentation	According to GOST R 52892	
GOST R 53963.2-2010	Vibration. Measurement of vibration in buildings. Measuring instrumentation tests		
SP 24.13330.2011	Regulations. SNiP 2.02.03-85. Pile foundations. Up-to-date version	Vibration speed of the harmonic component	Safety of buildings and structures