

DIN EN ISO 20643:2012-10 (E)

Mechanical vibration - Hand-held and hand-guided machinery - Principles for evaluation of vibration emission (ISO 20643:2005 + Amd. 1:2012) (includes Amendment :2012)

Contents		Page
Introduction		5
1	Scope	7
2	Normative references	8
3	Terms, definitions and symbols	8
3.1	Terms and definitions	8
3.2	Symbols	9
4	Basic standards and vibration test codes	10
5	Description of a family of machines	10
6	!Characterization of vibration	11
6.1	Direction of measurement	11
6.2	Location of measurement	13
6.3	Magnitude of vibration	13
6.4	Combination of vibration directions"	13
7	Instrumentation requirements	14
7.1	!General	14
7.2	Mounting of transducers	14
7.2.1	Specification of transducer	14
7.2.2	Fastening of transducer"	14
7.3	Frequency weighting filter	14
7.4	Integration time	14
7.5	Auxiliary equipment	14
7.6	Calibration of the measurement chain	15
8	Testing and operating conditions of the machinery	15
8.1	General	15
8.2	Operating conditions	15
8.3	Other quantities to be specified	15
8.4	Attached equipment, workpiece and task	15
8.5	!Operator	16
9	Measurement procedure and validity	16
9.1	Reported vibration value	16
9.2	Declaration and verification of the vibration emission value	16
10	Measurement report	16
Annex A (normative) Summary of information to be given in the vibration test code		18
Annex B (informative) Possible sources of errors during vibration measurements		19
Annex C (normative) Procedure for developing a vibration test code for a specific category of hand-held or hand-guided machinery		20

Annex ZA (informative) Bibliography	22
Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC	21