

DIN EN ISO 20643:2005-03 (E)

Mechanical vibration - Hand-held and hand-guided machinery - Principles for evaluation of vibration emission (ISO 20643:2005)

Contents

	Page
Foreword.....	3
Introduction.....	4
1 Scope	5
2 Normative references	6
3 Terms, definitions and symbols.....	6
3.1 Terms and definitions	6
3.2 Symbols.....	7
4 Basic standards and vibration test codes	8
5 Description of a family of machines	8
6 Characterization of vibration.....	8
6.1 Direction of measurement	8
6.2 Location of measurement.....	9
6.3 Magnitude of vibration	10
6.4 Combination of vibration directions.....	10
7 Instrumentation requirements.....	11
7.1 General	11
7.2 Mounting of transducers	11
7.2.1 Specification of transducer	11
7.2.2 Fastening of transducer.....	11
7.3 Frequency weighting filter.....	11
7.4 Integration time.....	11
7.5 Auxiliary equipment	11
7.6 Calibration of the measurement chain	12
8 Testing and operating conditions of the machinery.....	12
8.1 General	12
8.2 Operating conditions.....	12
8.3 Other quantities to be specified.....	12
8.4 Attached equipment, workpiece and task.....	12
8.5 Operator.....	13
9 Measurement procedure and validity	13
9.1 Reported vibration value	13
9.2 Declaration and verification of the vibration emission value	13
10 Measurement report	13
Annex A (normative) Summary of information to be given in the vibration test code.....	15
Annex B (informative) Possible sources of errors during vibration measurements.....	16
Annex C (normative) Procedure for developing a vibration test code for a specific category of hand-held or hand-guided machinery	17
Bibliography	18