

# ISO 20643:2005-02 (E)

## Mechanical vibration - Hand-held and hand-guided machinery - Principles for evaluation of vibration emission

---

### Contents

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