DIN EN ISO 28927-13:2022-07 (E)

Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 13: Fastener driving tools (ISO 28927-13:2022)

Contents

Page

European foreword ... **3**

Annex ZA (informative) **Relationship between this European Standard and the essential requirements of Directive 2006/42/EC aimed to be covered** ... **4**

Foreword ... **5**

Introduction ... **6**

1 Scope ... **7**

2 Normative references ... **7**

3 Terms and definitions ... **8**

4 Symbols ... **8**

5 Basic standards and vibration test code ... **9**

6 Description of the family of machines ... **9**

7 Characterization of vibration ... **11**
7.1 Direction of measurement ... 11
7.2 Location of measurements ... 11
7.3 Magnitude of vibration ... 14
7.4 Combination of vibration directions ... 14

8 Instrumentation requirements ... **15**
8.1 General ... 15
8.2 Mounting of transducers ... 15
8.2.1 Specification of transducer ... 15
8.2.2 Fastening of transducers ... 15
8.2.3 Mechanical filter ... 15
8.3 Frequency weighting filter ... 15
8.4 Integration time ... 15
8.4.1 General ... 15
8.4.2 Contact actuation ... 16
8.4.3 Continual contact actuation ... 16
8.5 Auxiliary equipment ... 16
8.6 Calibration of the measurement chain ... 16

9 Testing and operating conditions of the machinery ... **16**
9.1 General ... 16
9.2 Attached equipment, workpiece and task ... 17
9.2.1 General ... 17
9.2.2 Pneumatic machines ... 17
9.3 Operating conditions ... 17
9.4 Operators ... 18
9.5 Test procedure ... 18
9.5.1 Single sequential and contact actuation ... 18
9.5.2 Continual contact actuation and continuous actuation ... 18

10 Measurement procedure and validity ... **18**
10.1 Reported vibration values ... 18

10.2 Declaration and verification of the vibration emission value 19
11 Test report **20**
Annex A (informative) **Model test report for vibration emission of fastener driving tools** **21**
Annex B (normative) **Determination of uncertainty** **23**
Annex C (informative) **Additional information for tools with full sequential actuation** **26**
Bibliography **27**