ISO 28927-8:2009-12 (E)

Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 8: Saws, polishing and filing machines with reciprocating action and small saws with oscillating or rotating action

Contents

Page

Foreword iv

Introduction vi

1 Scope 1

2 Normative references 1

3 Terms, definitions and symbols 2
3.1 Terms and definitions 2
3.2 Symbols 2

4 Basic standards and vibration test codes 3

5 Description of the family of machines 3

6 Characterization of vibration 6
6.1 Direction of measurement 6
6.2 Location of measurements 6
6.3 Magnitude of vibration 11
6.4 Combination of vibration directions 11

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 transducers 12
7.3 Frequency weighting filter 12
7.4 Integration time 12
7.5 Auxiliary equipment 12
7.6 Calibration 12

8 Testing and operating conditions of the machinery 13
8.1 General 13
8.2 Operating conditions 13
8.2.1 Pneumatic machines 13
8.2.2 Hydraulic machines 13
8.2.3 Electrical machines 13
8.3 Other quantities to be specified 13
8.4 Attached equipment, work piece and task 13
8.4.1 General 13
8.4.2 Test set-up, conditions and procedures 14
8.5 Operators 17

9 Measurement procedure and validity 17
9.1 Reported vibration values 17
9.2 Declaration and verification of the vibration emission value 18

10 Measurement report 18

Annex A (informative) Model test report for vibration emission of saws and files 20

Annex B (normative) Determination of uncertainty 22

Bibliography 24