DIN EN 792-7:2009-12 (E)

Hand-held non-electric power tools - Safety requirements - Part 7: Grinders (includes Amendment A1:2008)

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 6

3 Terms and definitions 7
3.1 General terms and definitions 7
3.2 Terms and definitions related to grinders 7

4 List of significant hazards 9

5 Safety requirements and measures 10

Mechanical safety 10
5.1 5.2 Thermal safety 12
5.3 Noise 13
5.4 Vibration 13
5.5 Materials and substances processed, used or exhausted 14
5.6 Ergonomics 14
5.7 Safety related measures and means 15

6 Information for use 15
6.1 Marking, signs and written warnings 15
6.2 Instruction for use 16

7 Verification 20
7.1 Noise 20
7.2 Vibration 20
7.3 Test of deformation of flanges 20
7.4 Test of guards 21
7.5 Unintentional start 22
7.6 Structure of verification of safety requirements 23

Annex A (informative) Examples of grinders covered by this standard 24

Annex B (informative) Symbols for labels and signs 25

Annex C (informative) List of abrasive products for hand-held grinders 26

Annex D (normative) Design, material and thickness of guards 31

Annex E (informative) Example of calculating procedure of clamping force 36

Annex F (informative) Example of flanges 40

Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC 45

Annex ZB (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC 46

Bibliography 47