DIN EN 12855:2011-02 (E)

Food processing machinery - Rotating bowl cutters - Safety and hygiene requirements (includes Amendment A1:2010)

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 7

3 Terms and definitions 8

4 List of hazards 9
4.1 General 9
4.2 Mechanical hazards 9
4.3 Electrical hazards 11
4.4 Hydraulic hazards 11
4.5 Hazard from loss of stability 11
4.6 Noise hazard 11
4.7 Hazard from use of gases (N2, CO2 and steam) 11
4.8 Hazards from non-compliance with ergonomic principles 11
4.9 Hazards from non-compliance with hygiene principles 11

5 Safety requirements and/or measures 12
5.1 General 12
5.2 Mechanical hazards 12
5.3 Electrical Hazards 18
5.4 Hydraulic and pneumatic hazards 21
5.5 Hazard from loss of stability 21
5.6 Noise reduction 21
5.7 Hazard from use of gases (N2, CO2 and steam) 21
5.8 Ergonomic requirements 22
5.9 Hygiene and cleaning 22

6 Verification of safety requirements and/or safety measures 24

7 Information for use 25
7.1 General 25
7.2 Operating instructions 25
7.3 Training of operators 27

8 Marking 27

Annex A (normative) Common hazards for food processing machines and reduction requirements applicable to rotating bowl cutters 29

Annex B (normative) Noise test code for rotating bowl cutters (grade 2) 31

Annex C (normative) Design principles to ensure cleanability of rotating bowl cutters 33

Annex ZA (informative) !Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC" 39

Bibliography 40