

DIN EN 12855:2004-07 (E)

Food processing machinery - Rotating bowl cutters - Safety and hygiene requirements

Contents

	Page
Foreword.....	3
Introduction	3
1 Scope	4
2 Normative references	6
3 Terms and definitions.....	7
4 List of hazards.....	8
4.1 General.....	8
4.2 Mechanical hazards	8
4.3 Electrical hazards	10
4.4 Hydraulic hazards	10
4.5 Hazard from loss of stability.....	10
4.6 Noise hazard.....	10
4.7 Hazard from use of gases (N ₂ , CO ₂ and steam).....	10
4.8 Hazards from non-compliance with ergonomic principles	10
4.9 Hazards from non-compliance with hygiene principles	10
5 Safety requirements and/or measures	11
5.1 General.....	11
5.2 Mechanical hazards	11
5.3 Electrical hazards	17
5.4 Hydraulic and pneumatic hazards.....	20
5.5 Hazard from loss of stability.....	20
5.6 Noise reduction.....	20
5.7 Hazard from use of gases (N ₂ , CO ₂ and steam).....	20
5.8 Ergonomic requirements	21
5.9 Hygiene and cleaning	21
6 Verification of safety requirements and/or safety measures	23
7 Information for use	24
7.1 General.....	24
7.2 Operating instructions	24
7.3 Training of operators	26
8 Marking	26
Annex A (normative) Common hazards for food processing machines and reduction requirements applicable to rotating bowl cutters	27
Annex B (normative) Noise test code for rotating bowl cutters (grade 2).....	29
Annex C (normative) Design principles to ensure cleanability of rotating bowl cutters.....	31
Annex ZA (informative) Relationship of this document with EC Directives.....	35
Bibliography	36