

DIN EN 16743:2016-05 (E)

Food processing machinery - Automatic industrial slicing machines - Safety and hygiene requirements

Contents		Page
European foreword		4
Introduction		5
1	Scope	6
1.1	General	6
1.2	Machine description	6
1.3	Machine design	13
1.4	Intended use	14
2	Normative references	14
3	Terms and definitions	15
4	List of significant hazards	18
5	Safety and hygiene requirements and/or protective measures	20
5.1	General	20
5.2	Mechanical hazards	20
5.2.1	General	20
5.2.2	Zone 1 - Driven components in the feed area	21
5.2.3	Zone 2 - Driven components in the outfeed area	24
5.2.4	Zone 3 - Movable guards	25
5.2.5	Zone 4 - Blades	26
5.2.6	Zone 5 - Blade fixation	28
5.2.7	Zone 6 - Safety shutter	28
5.2.8	Zone 7 - Gripper	28
5.2.9	Conveyor belts	29
5.2.10	Exposed oscillating conveyor belts	29
5.2.11	Drive components in the machine housing	30
5.2.12	Guards for moving blades	30
5.3	Electrical hazards	31
5.3.1	General	31
5.3.2	Emergency stop-device	31
5.3.3	Protection against water ingress	32
5.3.4	ON- and OFF-command switches	33
5.4	Hydraulic and pneumatic hazards	33
5.5	Hazards due to instability	33
5.6	Noise reduction	33
5.7	Ergonomic requirements	33
5.8	Hygiene and cleaning	34
5.8.1	General	34
5.8.2	Food area	36
5.8.3	Splash area	36
5.8.4	Non-food area	36
5.8.5	Surface condition	37
5.8.6	Cleaning	37
6	Verification of safety and hygiene requirements and/or protective measures	37
7	Information for use	39

7.1	General	39
7.2	Instruction handbook	39
7.3	Marking	41
Annex A (normative) Noise test code for automatic industrial slicing machines (grade 2)		42
A.1	Determination of the emission sound pressure level	42
A.2	Installation and mounting conditions	42
A.3	Operating conditions	42
A.4	Measurement	42
A.5	Information to be recorded	42
A.6	Information to be reported	42
A.7	Declaration and verification of noise emission values	43
Annex B (normative) Design principles to ensure the cleanability of automatic industrial slicing machines and auxiliary components		44
B.1	Terms and definitions	44
B.2	Materials of construction	45
B.2.1	General	45
B.2.2	Type of materials	45
B.3	Design	45
B.3.1	General	45
B.3.2	Food area	45
B.3.3	Splash Area	47
B.3.4	Non-food area	49
B.3.5	Machines standing on a floor - mobile machines	49
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC		50
Bibliography		51