

DIN EN 12268:2015-01 (E)

Food processing machinery - Band saw machines - Safety and hygiene requirements

Contents		Page
Foreword		4
Introduction		5
1	Scope	6
1.1	General	6
1.2	Description of various machine types	6
1.2.1	General	6
1.2.2	Type A	7
1.2.3	Type B	7
1.2.4	Type C	7
1.2.5	Type D	8
2	Normative references	9
3	Terms and definitions	9
4	List of hazards	11
5	Safety requirements and/or measures	12
5.1	General	12
5.2	Mechanical hazards	13
5.2.1	General	13
5.2.2	Saw blade protection outside of the cutting zone - Zone 1	13
5.2.3	Protection at the cutting zone - Zone 2	13
5.2.4	Bottom and top wheels - Zone 3 and Zone 4	17
5.2.5	Sliding feed table - Zone 5	17
5.2.6	Drive system - Zone 6	17
5.3	Electrical hazards	17
5.3.1	General	17
5.3.2	Stopping function of switching devices	17
5.3.3	Protection against water ingress	17
5.3.4	ON- and OFF-switch	19
5.3.5	Safety requirements related to electromagnetic phenomena	19
5.3.6	Wheel-mounted band saw machines	19
5.4	Hazard from loss of stability	19
5.5	Noise hazard - Noise reduction at the design stage	19
5.6	Ergonomic requirements	20
5.7	Hygiene and cleaning	20
5.7.1	General	20
5.7.2	Food area	20
5.7.3	Splash area	21
5.7.4	Non-food area	21
5.7.5	Surface conditions	21
5.7.6	Cleaning	21
6	Verification of safety requirements and/or measures	21
7	Information for use	23
7.1	General	23
7.2	Instruction handbook	23
7.3	Marking	25

Annex A (normative) Noise test code for band saw machines (grade 2)	26
A.1 Emission sound pressure level determination	26
A.2 Sound power level determination	26
A.3 Installation and mounting conditions	26
A.4 Operating conditions	26
A.5 Measurement	26
A.6 Information to be recorded	27
A.7 Information to be reported	27
A.8 Declaration and verification of the noise emission values	27
Annex B (normative) Design principles to ensure cleanability of band saw machines	28
B.1 Definitions	28
B.2 Materials of construction	29
B.3 Design	29
Annex C (informative) Examples of work aid tools having a protective function	34
C.1 General	34
C.2 Example of a pusher to saw small parts (chicken legs, wings	34
C.3 Example of a device for cutting pork knuckles, shoulders and chest bones	35
C.4 Example of a device for cutting of feet, long products	36
C.5 Example of a device for cutting frozen plates	37
C.6 Example of a pusher that is not an integral part of the machine and that slides in the table groove	38
C.7 Example of a device for slicing parts	39
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC	40
Bibliography	41