

# DIN EN 12268:2015-01 (E)

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

<b>Contents</b>		<b>Page</b>
Foreword .....		4
Introduction .....		5
<b>1</b>	<b>Scope .....</b>	<b>6</b>
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
<b>2</b>	<b>Normative references .....</b>	<b>9</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>9</b>
<b>4</b>	<b>List of hazards .....</b>	<b>11</b>
<b>5</b>	<b>Safety requirements and/or measures .....</b>	<b>12</b>
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
<b>6</b>	<b>Verification of safety requirements and/or measures .....</b>	<b>21</b>
<b>7</b>	<b>Information for use .....</b>	<b>23</b>
7.1	General .....	23
7.2	Instruction handbook .....	23
7.3	Marking .....	25

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