

# DIN EN 15180:2015-01 (E)

## Food processing machinery - Food depositors - 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	Types of food depositors .....	6
<b>2</b>	<b>Normative references .....</b>	<b>9</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>11</b>
<b>4</b>	<b>List of significant hazards .....</b>	<b>12</b>
4.1	General .....	12
4.2	General food depositor hazards .....	12
4.3	Hazards associated with a piston depositor .....	16
4.4	Hazards associated with a chamber depositor .....	18
4.5	Hazards associated with a roller depositor .....	20
4.6	Hazards associated with a pump depositor .....	21
4.7	Hazards associated with a screw depositor .....	23
<b>5</b>	<b>Safety requirements and/protective measures .....</b>	<b>24</b>
5.1	General .....	24
5.2	General requirements for food depositors .....	24
5.3	Safety requirements for a piston depositor .....	32
5.4	Safety requirements for a chamber depositor .....	34
5.5	Safety requirements for a roller depositor .....	34
5.6	Safety requirements for a pump depositor .....	35
5.7	Safety requirements for a screw depositor .....	36
<b>6</b>	<b>Verification of the safety requirements and/or protective measures .....</b>	<b>37</b>
6.1	Introduction .....	37
6.2	Visual inspections .....	40
6.3	Function tests .....	40
6.4	Measurements .....	40
6.5	Design Verification .....	41
6.6	Hazardous product and cleaning material related requirements .....	41
<b>7</b>	<b>Information for use .....</b>	<b>41</b>
7.1	General .....	41
7.2	Signal and warning devices .....	41
7.3	Accompanying documents (in particular the instruction handbook) .....	42
7.4	Marking .....	43
<b>Annex A (normative) Noise test code .....</b>		<b>44</b>
<b>A.1</b>	<b>Scope .....</b>	<b>44</b>
<b>A.2</b>	<b>Terms and definitions .....</b>	<b>44</b>
<b>A.3</b>	<b>Determination of emission sound pressure level .....</b>	<b>44</b>
<b>A.4</b>	<b>Sound power level determination .....</b>	<b>44</b>
<b>A.5</b>	<b>Installation and mounting conditions .....</b>	<b>45</b>
<b>A.6</b>	<b>Operating conditions .....</b>	<b>45</b>

<b>A.7</b>	<b>Measurement uncertainties .....</b>	<b>45</b>
<b>A.8</b>	<b>Information to be recorded .....</b>	<b>46</b>
<b>A.9</b>	<b>Information to be reported .....</b>	<b>46</b>
<b>A.10</b>	<b>Declaration and verification of noise emission values .....</b>	<b>46</b>
<b>Annex B (informative) Correlation between Clauses 4, 5 and 7 .....</b>		<b>48</b>
<b>Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC on Machinery .....</b>		<b>51</b>
<b>Bibliography .....</b>		<b>52</b>