

# DIN EN 1870-17:2015-06 (E)

## Safety of woodworking machines - Circular sawing machines - Part 17: Manual horizontal cutting cross-cut sawing machines with one saw unit (radial arm saws) (includes Amendment A1:2015)

---

<b>Contents</b>		<b>Page</b>
	Foreword .....	4
	Introduction .....	6
<b>1</b>	<b>Scope .....</b>	<b>7</b>
<b>2</b>	<b>Normative references .....</b>	<b>7</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>10</b>
<b>3.1</b>	<b>General .....</b>	<b>10</b>
<b>3.2</b>	<b>Definitions .....</b>	<b>10</b>
<b>4</b>	<b>List of significant hazards .....</b>	<b>12</b>
<b>5</b>	<b>Safety requirements and/or measures .....</b>	<b>15</b>
<b>5.1</b>	<b>General .....</b>	<b>15</b>
<b>5.2</b>	<b>Controls .....</b>	<b>15</b>
<b>5.2.1</b>	<b>Safety and reliability of control systems .....</b>	<b>15</b>
<b>5.2.2</b>	<b>Position of controls .....</b>	<b>16</b>
<b>5.2.3</b>	<b>Starting .....</b>	<b>16</b>
<b>5.2.4</b>	<b>Normal stopping .....</b>	<b>17</b>
<b>5.2.5</b>	<b>Failure of the power supply .....</b>	<b>17</b>
<b>5.3</b>	<b>Protection against mechanical hazards .....</b>	<b>17</b>
<b>5.3.1</b>	<b>Stability .....</b>	<b>17</b>
<b>5.3.2</b>	<b>Risk of break-up during operation .....</b>	<b>18</b>
<b>5.3.3</b>	<b>Tool holder and tool design .....</b>	<b>18</b>
<b>5.3.4</b>	<b>Braking .....</b>	<b>21</b>
<b>5.3.5</b>	<b>Workpiece supports and guides .....</b>	<b>22</b>
<b>5.3.6</b>	<b>Prevention of access to moving parts .....</b>	<b>24</b>
<b>5.3.7</b>	<b>Clamping devices .....</b>	<b>27</b>
<b>5.4</b>	<b>Protection against non-mechanical hazards .....</b>	<b>28</b>
<b>5.4.1</b>	<b>Fire .....</b>	<b>28</b>
<b>5.4.2</b>	<b>Noise .....</b>	<b>28</b>
<b>5.4.3</b>	<b>Emission of chips and dust .....</b>	<b>29</b>
<b>5.4.4</b>	<b>Electricity .....</b>	<b>30</b>
<b>5.4.5</b>	<b>Ergonomics and handling .....</b>	<b>31</b>
<b>5.4.6</b>	<b>Pneumatics .....</b>	<b>31</b>
<b>5.4.7</b>	<b>Electromagnetic compatibility .....</b>	<b>32</b>
<b>5.4.8</b>	<b>Laser .....</b>	<b>32</b>
<b>5.4.9</b>	<b>Static electricity .....</b>	<b>32</b>
<b>5.4.10</b>	<b>Errors of fitting .....</b>	<b>32</b>
<b>5.4.11</b>	<b>Supply disconnection (Isolation) .....</b>	<b>32</b>
<b>5.4.12</b>	<b>Maintenance .....</b>	<b>33</b>
<b>6</b>	<b>Information for use .....</b>	<b>33</b>
<b>6.1</b>	<b>General .....</b>	<b>33</b>
<b>6.2</b>	<b>Marking .....</b>	<b>33</b>
<b>6.3</b>	<b>Instruction handbook .....</b>	<b>34</b>

<b>Annex A (normative) Stability test for displaceable machines .....</b>	<b>38</b>
<b>Annex B (normative) Saw spindle dimensional tolerances .....</b>	<b>39</b>
<b>Annex C (normative) Impact test method for guards .....</b>	<b>40</b>
<b>C.1 General .....</b>	<b>40</b>
<b>C.2 Test method .....</b>	<b>40</b>
<b>C.2.1 Preliminary remarks .....</b>	<b>40</b>
<b>C.2.2 Testing equipment .....</b>	<b>40</b>
<b>C.2.3 Projectile for guards .....</b>	<b>40</b>
<b>C.2.4 Sampling .....</b>	<b>40</b>
<b>C.2.5 Test procedure .....</b>	<b>40</b>
<b>C.3 Results .....</b>	<b>41</b>
<b>C.4 Assessment .....</b>	<b>41</b>
<b>C.5 Test report .....</b>	<b>41</b>
<b>C.6 Test equipment for impact test .....</b>	<b>41</b>
<b>Annex D (normative) Brake tests .....</b>	<b>43</b>
<b>D.1 Conditions for all tests .....</b>	<b>43</b>
<b>D.2 Tests .....</b>	<b>43</b>
<b>D.2.1 Un-braked run-down time .....</b>	<b>43</b>
<b>D.2.2 Braked run-down time .....</b>	<b>43</b>
<b>Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC .....</b>	<b>44</b>
<b>Bibliography .....</b>	<b>47</b>