

# DIN EN 15027:2010-03 (E)

## Transportable wall saw and wire saw equipment for job site - Safety (includes Amendment A1:2009)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		4
Introduction .....		5
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	7
4	List of significant 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	Protection against moving parts .....	13
5.2.3	Stability .....	14
5.2.4	Transport and handling .....	14
5.2.5	Fixing of the cutting tool .....	14
5.2.6	Manual starting .....	14
5.2.7	Guiding systems .....	15
5.2.8	Control devices .....	15
5.2.9	Failure of power supply .....	15
5.3	Electrical hazards .....	16
5.4	Thermal hazards .....	16
5.5	Exhaust fumes (internal combustion engines) .....	16
5.6	Hydraulic and pneumatic installations .....	16
5.6.1	Hydraulic installations .....	16
5.6.2	Pneumatic installations .....	17
5.6.3	Hoses and pipes under pressure .....	17
5.7	Fluid containers .....	17
5.8	Cutting debris and dust emission .....	17
5.9	Rotational speed .....	17
5.10	Noise reduction at design stage .....	17
5.11	Maintenance .....	18
6	Verification of safety requirements and/or measures .....	18
7	Information for use .....	18
7.1	General .....	18
7.2	Marking .....	18
7.2.1	Regular marking .....	18
7.2.2	Other information .....	19
7.2.3	Warning about residual risks .....	19
7.3	Accompanying documents .....	19
7.3.1	General .....	19
7.3.2	Operator's instructions .....	19
7.3.3	Maintenance instructions .....	22
7.3.4	Spare parts list .....	23

<b>Annex A (normative) Noise test code - Grade 2 of accuracy</b>	<b>24</b>
<b>A.1 General</b>	<b>24</b>
<b>A.2 Measurement of the A-weighted emission sound pressure level at the work station</b>	<b>24</b>
<b>A.3 Determination of the A-weighted sound power level emitted by the machine</b>	<b>24</b>
<b>A.4 Operating conditions</b>	<b>24</b>
<b>A.5 Information to be recorded</b>	<b>25</b>
<b>A.6 Information to be reported</b>	<b>25</b>
<b>A.7 Noise declaration by the manufacturer</b>	<b>25</b>
<b>Annex B (normative) Requirements for cutting-off wheel and wire guards</b>	<b>27</b>
<b>B.1 General</b>	<b>27</b>
<b>B.2 Tool guards for wall saws</b>	<b>27</b>
<b>B.3 Tool guard for wire saws</b>	<b>28</b>
<b>Annex C (normative) Pictograms</b>	<b>30</b>
<b>Annex D (normative) Verification of surface temperature</b>	<b>31</b>
<b>D.1 Test equipment</b>	<b>31</b>
<b>D.2 Test method</b>	<b>31</b>
<b>D.3 Test acceptance</b>	<b>31</b>
<b>Annex E (informative) Examples for working areas and dangerous areas for wire saws</b>	<b>32</b>
<b>Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC</b>	<b>35</b>
<b>Annex ZB (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC</b>	<b>36</b>
<b>Bibliography</b>	<b>37</b>
<b>Figures Figure 1 -- Components of a wall saw</b>	<b>8</b>
<b>Figure 2 -- Components of a wire saw</b>	<b>10</b>
<b>Figure B.1 -- Wall saw - Tool guard</b>	<b>27</b>
<b>Figure B.2 -- Wire saw - Tool guard</b>	<b>28</b>
<b>Figure C.1 -- "Caution, risk of cutting"</b>	<b>30</b>
<b>Figure C.2 -- "Read operator's instructions" (see ISO 7000:2004)</b>	<b>30</b>
<b>Figure C.3 -- "Ear Hearing protection shall be worn"</b>	<b>30</b>
<b>Figure C.4 -- "Eye protection shall be worn"</b>	<b>30</b>
<b>Figure C.5 -- "Hand protection shall be worn"</b>	<b>30</b>
<b>Figure D.1 -- Test cone to detect hot surface</b>	<b>31</b>
<b>Figure E.1 -- Danger zones for wall cutting with additional wire guiding devices</b>	<b>32</b>
<b>Figure E.2 -- Danger zones for wall cutting without additional wire guiding devices</b>	<b>33</b>
<b>Figure E.3 -- Danger zones for floor cutting</b>	<b>34</b>
<b>Tables Table 1 -- List of significant hazards</b>	<b>12</b>
<b>Table B.1 -- Minimum thickness of tool guard parts for wall saws</b>	<b>28</b>
<b>Table B.2 -- Minimum thickness of tool guard parts for wire saws</b>	<b>29</b>