



DIN EN 1870-13:2012-06 (E)

Safety of woodworking machines - Circular sawing machines - Part 13: Horizontal beam panel sawing machines (inclu des Amendment A2:2012)

Contents		Page
Foreword.....		4
Introduction.....		6
1 Scope		7
2 Normative references		8
3 Terms and definitions		10
3.1 A2 General A2		10
3.2 A2 Definitions A2		10
4 List of significant hazards		17
5 Safety requirements and / or measures		20
5.1 General.....		20
5.2 Controls		20
5.2.1 Safety and reliability of control systems.....		20
5.2.2 Position of controls		21
5.2.3 Starting		21
5.2.4 Normal stopping		22
5.2.5 Emergency stop.....		23
5.2.6 Pressure beam control.....		24
5.2.7 A2 Speed control A2		24
5.2.8 Failure of the power supply		24
5.2.9 Failure of the control circuits		25
5.3 Protection against mechanical hazards		25
5.3.1 Stability.....		25
5.3.2 Hazard resulting from break-up during operation.....		25
5.3.3 Tool holder and tool design.....		26
5.3.4 Braking.....		26
5.3.5 Workpiece supports and guides		27
5.3.6 Prevention of access to moving parts.....		28
5.3.7 Guarding of drives.....		39
5.4 Protection against non-mechanical hazards		40
5.4.1 Fire		40
5.4.2 Noise		40
5.4.3 Emission of chips and dust.....		41
5.4.4 Electricity.....		42
5.4.5 Ergonomics and handling.....		42
5.4.6 Pneumatics.....		43
5.4.7 Electromagnetic compatibility.....		43
5.4.8 Static electricity		43
5.4.9 Errors of fitting.....		43
5.4.10 Laser		44
5.4.11 Supply disconnection (isolation)		44
5.4.12 Maintenance		44
6 Information for use		45
6.1 Warning devices		45
6.2 Marking		45
6.3 Instruction handbook		46
Annex A (normative) Impact test method for guards		52
A.1 General.....		52
A.2 Test method.....		52
A.2.1 Preliminary remarks		52

A.2.2	Testing equipment	52
A.2.3	Projectile for guards	52
A.2.4	Sampling	52
A.2.5	Test procedure	52
A.3	Results	53
A.4	Assessment	53
A.5	Test report	53
A.6	Test equipment for impact test	53
Annex B (normative) Saw spindle dimensional tolerances		55
Annex C (normative) Rigidity test for sectional safety curtain material		56
Annex D (normative) Braking tests		58
D.1	Conditions for all tests	58
D.2	Tests	58
D.2.1	Un-braked run-down time	58
D.2.2	Braked run-down time	58
Annex ZA (informative)  Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC 		61
Bibliography		65