

DIN EN 1870-8:2013-03 (E)

Safety of woodworking machines - Circular sawing machines - Part 8: Single blade edging circular rip sawing machines with power driven saw unit and manual loading and/or unloading

Contents		Page
Foreword		4
Introduction		6
1	Scope	7
2	Normative references	7
3	Terms and definitions	9
4	List of significant hazards	13
5	Safety requirements and/or measures	16
5.1	General	16
5.2	Controls	16
5.2.1	Safety and reliability of control systems	16
5.2.2	Position of controls	17
5.2.3	Starting	17
5.2.4	Normal stopping	18
5.2.5	Emergency stop	19
5.2.6	Integrated feed	19
5.2.7	Saw blade changing	20
5.2.8	Speed control	20
5.2.9	Control duplication	20
5.2.10	Failure of the power supply	20
5.2.11	Powered movement of the saw blade and/or fences	21
5.3	Protection against mechanical hazards	22
5.3.1	Stability	22
5.3.2	Risk of break-up during operation	22
5.3.3	Tool holder and tool design	23
5.3.4	Braking	24
5.3.5	Devices to minimise the possibility or the effect of ejection	25
5.3.6	Workpiece supports and guides	30
5.3.7	Prevention of access to moving parts	31
5.3.8	Workpiece clamping	33
5.3.9	Safety appliances	35
5.4	Protection against non-mechanical hazards	35
5.4.1	Fire	35
5.4.2	Noise	35
5.4.3	Emission of chips and dust	36
5.4.4	Electricity	37
5.4.5	Ergonomics and handling	37
5.4.6	Lighting	38
5.4.7	Pneumatic	38
5.4.8	Hydraulic	38
5.4.9	Electromagnetic compatibility	38
5.4.10	Laser	38
5.4.11	Errors of fitting	39
5.4.12	Isolation	39

5.4.13	Maintenance	39
6	Information for use	40
6.1	General	40
6.2	Warnings and warning devices	40
6.3	Marking	40
6.3.1	Marking of riving knives	40
6.3.2	Marking of machine	40
6.4	Instruction handbook	41
Annex A (normative) Saw spindle dimensional tolerances		45
Annex B (normative) Riving knife mounting strength test		46
Annex C (normative) Lateral stability riving knife test		47
Annex D (normative) Sectional safety curtain material rigidity test		48
Annex E (normative) Operating conditions for noise emission measurement		49
E.1	General	49
E.2	Noise measurements	49
E.3	General data sheet	51
Annex F (normative) Braking tests		55
F.1	Conditions for all tests	55
F.2	Tests	55
F.2.1	Un-braked run-down time	55
F.2.2	Braked run-down time	55
Annex G (normative) Impact test method for guards		56
G.1	General	56
G.2	Test method	56
G.2.1	Preliminary remarks	56
G.2.2	Testing equipment	56
G.2.3	Projectile for guards	56
G.2.4	Sampling	56
G.2.5	Test procedure	56
G.3	Results	57
G.4	Assessment	57
G.5	Test report	57
G.6	Test equipment for impact test	57
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC		59
Bibliography		60