

DIN EN 1870-8:2010-05 (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 (includes Amendment A1:2009)

Contents		Page
Foreword	4
0	Introduction	6
1	Scope	6
2	Normative references	6
3	Terms and definitions	9
3.1	Terms	9
3.2	Definitions	10
4	!!!!List of significant hazards""""	13
5	Safety requirements and/or measures	16
5.1	Controls	16
5.1.1	Safety and reliability of control systems	16
5.1.2	Position of controls	17
5.1.3	Starting	18
5.1.4	Normal stopping	18
5.1.5	Emergency stop	19
5.1.6	Integrated feed	19
5.1.7	Sawblade changing	20
5.1.8	Speed changing	20
5.1.9	Control duplication	20
5.1.10	Failure of the power supply	20
5.1.11	Movement of the fence	20
5.2	Protection against mechanical hazards	21
5.2.1	Stability	21
5.2.2	Risk of break-up during operation	21
5.2.3	Tool holder and tool design	22
5.2.4	Braking	23
5.2.5	Devices to minimise the possibility or the effect of ejection	24
5.2.6	Workpiece supports and guides	30
5.2.7	Prevention of access to moving parts	31
5.2.8	Workpiece clamping	33
5.2.9	Safety appliances	35
5.3	Protection against non-mechanical hazards	36
5.3.1	!!!!Fire""""	36
5.3.2	Noise	36
5.3.3	Emission of chips, dust and gases	37
5.3.4	Electricity	37
5.3.5	Ergonomics and handling	37
5.3.6	Lighting	38
5.3.7	Pneumatic	38
5.3.8	Hydraulic	38
5.3.9	Heat	38
5.3.10	Substances	38
5.3.11	Vibration	38

5.3.12	!!!!Electromagnetic compatibility""""	38
5.3.13	Laser	39
5.3.14	Static electricity	39
5.3.15	Errors of fitting	39
5.3.16	Isolation	39
5.3.17	Maintenance	39
6.2.1	6.2.2 E.3 Annex ZA (informative) !!!!Relationship between this European Standard and the Essential "" Annex ZB (informative) !!!!Relationship between this European Standard and the Essential "" Information for use	40
6.1	Warning devices	40
6.2	Marking	40
	Marking of riving knives	40
	Annex A (normative) Saw spindle dimensional tolerances	45
	Marking of machine	40
6.3	Instruction handbook	41
	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.2	Noise measurements	49
E.1	General	49
	General data sheet	50
	Bibliography	57
	Requirements of EU Directive 98/37/EC""	55
	Requirements of EU Directive 2006/42/EC""	56