

DIN EN 1807-1:2013-06 (E)

Safety of woodworking machines - Band sawing machines - Part 1: Table band saws and band re-saws

Contents		Page
Foreword		4
Introduction		6
1	Scope	7
2	Normative references	7
3	Terms, definitions and terminology	10
3.1	Terms and definitions	10
3.2	Terminology	12
4	List of significant hazards	17
5	Safety requirements and/or measures	20
5.1	General	20
5.2	Controls	21
5.2.1	Safety and reliability of control systems	21
5.2.2	Position of controls	22
5.2.3	Starting	22
5.2.4	Normal stopping	23
5.2.5	Emergency stop	23
5.2.6	Tracking mode	24
5.2.7	Mode selection	24
5.2.8	Speed control	24
5.2.9	Control duplication	25
5.2.10	Failure of the power supply	25
5.3	Protection against mechanical hazards	26
5.3.1	Stability	26
5.3.2	Risk of break-up during operation	26
5.3.3	Saw blade holder and saw blade design	28
5.3.4	Braking	33
5.3.5	Devices to minimise the possibility or the effect of ejection	34
5.3.6	Workpiece supports and guides	34
5.3.7	Prevention of access to moving parts	39
5.3.8	Safety appliances for table band saws	45
5.4	Protection against non-mechanical hazards	46
5.4.1	Fire	46
5.4.2	Noise	46
5.4.3	Emission of chips and dust	47
5.4.4	Electricity	48
5.4.5	Ergonomics and handling	49
5.4.6	Pneumatics	50
5.4.7	Hydraulics	50
5.4.8	Vibration	50
5.4.9	Electromagnetic compatibility	50
5.4.10	Laser	50
5.4.11	Static electricity	51
5.4.12	Errors of fitting	51
5.4.13	Supply disconnection (Isolation)	51
5.4.14	Maintenance	51

6	Information for use	52
6.1	General	52
6.2	Marking	52
6.3	Instruction handbook	53
Annex A (normative) Test for adjustable guard over cutting area of saw blade		58
Annex B (normative) Operating conditions for noise emission measurement		60
Annex C (normative) Stability test		61
Annex D (normative) Impact test method for guards		62
D.1	General	62
D.2	Test method	62
D.2.1	Preliminary remarks	62
D.2.2	Testing equipment	62
D.2.3	Projectile for guards	62
D.2.4	Sampling	62
D.2.5	Test procedure	62
D.3	Results	63
D.4	Assessment	63
D.5	Test report	63
D.6	Test equipment for impact test	63
Annex E (normative) Braking tests		65
E.1	Conditions for all tests	65
E.2	Tests	65
E.2.1	Unbraked run-down time	65
E.2.2	Run-up time	65
E.2.3	Braked run-down time	65
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC		67
Bibliography		70