

DIN EN 1870-5:2010-03 (E)

Safety of woodworking machines - Circular sawing machines - Part 5: Circular saw benches/up-cutting cross-cut sawing machines (includes Amendment A1:2009)

| Contents | | Page |
|-----------------|--|-------------|
| Foreword | | 4 |
| 0 | Introduction | 6 |
| 1 | Scope | 7 |
| 2 | Normative references | 7 |
| 3 | Terms and definitions | 10 |
| 3.1 | Terms | 10 |
| 3.2 | Definitions | 10 |
| 4 | List of significant hazards | 15 |
| 5 | Safety requirements and/or measures | 18 |
| 5.1 | Controls | 18 |
| 5.1.1 | Safety and reliability of control systems | 18 |
| 5.1.2 | Position of controls | 19 |
| 5.1.3 | Starting | 19 |
| 5.1.4 | Normal stopping | 19 |
| 5.1.5 | Failure of the power supply | 20 |
| 5.1.6 | Failure of the control circuits | 20 |
| 5.2 | Protection against mechanical hazards | 20 |
| 5.2.1 | Stability | 20 |
| 5.2.2 | Risk of break-up during operation | 20 |
| 5.2.3 | Tool holder and tool design | 21 |
| 5.2.4 | Braking | 22 |
| 5.2.5 | Devices to minimise the possibility or the effect of ejection | 23 |
| 5.2.6 | Workpiece supports and guides | 30 |
| 5.2.7 | Prevention of access to moving parts | 34 |
| 5.2.8 | Safety appliances | 39 |
| 5.3 | Protection against non-mechanical hazards | 39 |
| 5.3.1 | Fire and explosion | 39 |
| 5.3.2 | Noise | 40 |
| 5.3.3 | Emission of chips, dust and gases | 41 |
| 5.3.4 | Electricity | 41 |
| 5.3.5 | Ergonomics and handling | 42 |
| 5.3.6 | Lighting | 42 |
| 5.3.7 | Pneumatic | 42 |
| 5.3.8 | Hydraulic | 42 |
| 5.3.9 | Heat | 42 |
| 5.3.10 | Substances | 42 |
| 5.3.11 | Vibration | 42 |
| 5.3.12 | Radiation | 43 |
| 5.3.13 | Laser | 43 |
| 5.3.14 | Static electricity | 43 |
| 5.3.15 | Errors of fitting | 43 |
| 5.3.16 | Isolation | 43 |
| 5.3.17 | Maintenance | 44 |
| 6 | Information for use | 44 |

| | | |
|--|---|----|
| 6.1 | Warning devices | 44 |
| 6.2 | Marking | 44 |
| 6.2.1 | Marking of the machine | 44 |
| 6.2.2 | Marking of riving knives | 45 |
| 6.3 | Instruction handbook | 45 |
| Annex A (normative) Open frame machines stability test | | 49 |
| Annex B (normative) Dimensional tolerances of saw spindles | | 50 |
| Annex C (normative) Riving knife mounting strength test | | 51 |
| Annex D (normative) Riving knife lateral stability test | | 52 |
| Annex E (normative) Saw blade guard stability test | | 53 |
| E.1 | General | 53 |
| E.2 | Machines with saw blade guards with lead-in | 53 |
| E.3 | Machines with saw blade guards with in-feed rollers | 53 |
| Annex ZA (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives | | 56 |
| Bibliography | | 58 |