

DIN EN 1034-26:2012-06 (E)

Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 26: Roll packaging machines

| Contents | | Page |
|---|---|-------------|
| Foreword | | 4 |
| 1 | Scope | 6 |
| 2 | Normative references | 6 |
| 3 | Terms and definitions | 7 |
| 4 | List of significant hazards | 9 |
| 5 | Safety requirements and/or measures | 10 |
| 5.1 | General | 10 |
| 5.2 | Workplaces, access stairs, catwalks, passageways | 10 |
| 5.3 | Emergency stop device | 10 |
| 5.4 | Control systems and actuators | 11 |
| 5.5 | Isolation and energy dissipation, prevention of unexpected start-up | 11 |
| 5.6 | Make-ready and maintenance | 11 |
| 5.7 | Noise | 12 |
| 5.8 | Integrated lighting | 12 |
| 5.9 | Electrical equipment | 12 |
| 5.10 | Hydraulic equipment | 12 |
| 5.11 | Pneumatic equipment | 12 |
| 5.12 | Ergonomic principles | 12 |
| 5.13 | Power transmission elements | 12 |
| 5.14 | Hot surfaces | 12 |
| 5.15 | Fire | 12 |
| 5.16 | Packaging unit, folding device, head disc press, traversing packaging material unwind, integrated conveyors, roll pushers, rolling deck, roll stoppers and robots | 13 |
| 5.17 | Centring station | 14 |
| 5.18 | Packaging material unwinds | 14 |
| 5.19 | Threading the packaging material | 14 |
| 5.20 | Device for cross cutting the packaging material | 14 |
| 5.21 | Edge trimming of packaging material | 15 |
| 5.22 | Automatic roll labelling | 15 |
| 6 | Verification of safety requirements and/or measures | 15 |
| 7 | Information for use | 16 |
| 7.1 | General information | 16 |
| 7.2 | Instruction handbook | 16 |
| 7.3 | Marking | 17 |
| Annex A (informative) Figures | | 18 |
| Annex B (informative) Muting of electrosensitive protective devices on paper making and paper finishing machines | | 22 |
| Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC | | 24 |
| Figures | Figure A.1 -- Example of a roll packaging machine with robots | 18 |

| | |
|--|-----------|
| Figure A.2 -- Example of a roll packaging machine with robots | 19 |
| Figure A.3 -- Principle of a roll packaging machine with a traversing unwind for spiral winding of the packaging material web | 20 |
| Figure A.4 -- Example of a roll packaging machine with four wrapping paper unwinds | 21 |
| Figure B.1 -- Equipment (paper roll turner) provided with electrosensitive protective devices (ESPDs) which are muted for letting pass a paper roll | 23 |
| Figure B.2 -- Muting principle of an ESPD with a laser scanner | 23 |
| Tables Table 1 -- List of significant hazards (1 of 2) | 9 |
| Table 1 (2 of 2) | 10 |
| Table 2 -- List of safety functions, Performance Level and Safety Integrity Level specified in this standard | 11 |
| Table 3 -- Methods used to verify safety requirements and/or protective measures | 16 |