

# DIN EN 1034-8:2012-06 (E)

## Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 8: Refining plants

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
Introduction .....		5
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	7
4	List of significant hazards .....	8
5	Safety requirements and/or measures .....	10
5.1	General .....	10
5.2	Workplaces, means of access, walkways, passageways .....	11
5.3	Emergency stop device .....	11
5.4	Control system and actuators .....	11
5.5	Power, temperature and pressure control system, forced lubrication system .....	12
5.6	Refining gap adjustment .....	12
5.7	Energy isolation and dissipation, prevention of unexpected start-up .....	12
5.8	Electrical drive systems .....	12
5.9	Power transmission elements .....	12
5.10	Stock pumps, gate valves, piping .....	12
5.11	Electrical equipment .....	13
5.12	Hydraulic equipment .....	13
5.13	Pneumatic equipment .....	13
5.14	Equipment and measures for cleaning and maintenance .....	13
5.15	Noise .....	13
5.16	Hot surfaces .....	14
5.17	Integrated lighting .....	14
5.18	Ergonomic principles .....	14
6	Verification of safety requirements and/or measures .....	14
7	Information for use .....	15
7.1	General information .....	15
7.2	Instruction handbook .....	15
7.3	Marking .....	16
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC .....		17
Tables Table 1 -- List of significant hazards .....		9
Table 2 -- Safety Integrity Level und Performance Level .....		11
Table 3 -- Methods used to verify safety requirements and/or measures .....		15