

DIN EN 15094:2023-12 (E)

Safety of machinery - Safety requirements for cold flat rolling mills

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	6
3	Terms and definitions	9
4	Significant hazards and risk assessment	15
4.1	General	15
4.2	Interfaces to the linked/integrated equipment	15
5	Safety requirements and/or protective/risk reduction measures	15
5.1	General	15
5.2	General requirements for design, planning and risk assessment	16
5.3	Significant hazards, hazardous situations, safety requirements and/or protective/risk reduction measures	35
6	Verification/validation of safety requirements/functions and/or protective/risk reduction measures	57
6.1	General	57
6.2	Required verification D	57
6.3	Required verification V, M and T	57
7	Information for use	59
7.1	General	59
7.2	Warning devices and safety signs	59
7.3	Minimum marking	59
7.4	Accompanying documents	59
7.5	Training of personnel	63
8	Supplementary information regarding repair work	63
Annex A (normative) Requirements for shut-down, emergency stop and other stop functions		64
Annex B (normative) Noise test code		71
Annex C (normative) Protection of persons in case of using asphyxiant gases used in firefighting systems		76
Annex D (informative) Machines and/or equipment covered by this document		80
Annex E (informative) Roll spalling		82
Annex F (informative) Example for modes of operation in relation to segregated areas		83
Annex G (informative) Example for the risk analysis due to interfaces		84
Bibliography		85