

DIN EN ISO 4254-1:2013-10 (E)

Agricultural machinery - Safety - Part 1: General requirements (ISO 4254-1:2013)

Contents		Page
Foreword		4
Introduction		6
1	Scope	7
2	Normative references	7
3	Terms and definitions	9
4	Safety requirements and/or measures applicable to all machines	11
4.1	Fundamental principles, design guidance	11
4.2	Protection from moving parts involved in the work	11
4.3	Noise	11
4.4	Vibration	12
4.5	Controls	12
4.6	Automatic mode of operation	13
4.7	Operator stations	13
4.8	Other than operator stations	16
4.9	Folding elements	18
4.10	Strength requirements for guards and barriers	18
4.11	Supports for service and maintenance	18
4.12	Electric equipment	19
4.13	Hydraulic components and fittings	19
4.14	Pneumatic systems	19
4.15	Operating fluids	19
4.16	Manual operation of individual assemblies	20
4.17	Service and handling of machine parts	20
4.18	Electromagnetic compatibility	20
4.19	Emergency stop	20
4.20	Safety-related parts of control systems	21
5	Safety requirements and/or measures -- Self-propelled ride-on machines	21
5.1	Operator station	21
5.2	Moving the machine	24
5.3	Electric	25
5.4	Fuel tank	25
5.5	Hot surfaces	25
5.6	Exhaust gases	25
5.7	Roll- and tip-over	25
6	Safety requirements and/or measures -- Mounted, semi-mounted and trailed machines	26
6.1	Stability	26
6.2	Stability	26
6.3	Hitches for towing	27
6.4	Transmission of mechanical power between self-propelled machines/tractors and recipient machinery	27
6.5	Hydraulic, pneumatic and electrical connections with a self-propelled machine or towing vehicle	28
7	Verification of safety requirements or protective measures	28

8	Information for use	29
8.1	General	29
8.2	Operator's manual	29
8.3	Safety and instructional signs	30
8.4	Marking	31
Annex A (informative)	List of significant hazards	32
Annex B (normative)	Noise test code (engineering method grade 2)	36
Annex C (normative)	Strength tests	40
Annex D (informative)	Stability of tractor machine combinations	42
Bibliography		45
Annex ZA (informative)	Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC 44	