

ISO 4254-1:2013-05 (E)

Agricultural machinery - Safety - Part 1: General requirements

Contents		Page
Foreword		v
Introduction		vii
1	Scope	1
2	Normative references	1
3	Terms and definitions	3
4	Safety requirements and/or measures applicable to all machines	5
4.1	Fundamental principles, design guidance	5
4.2	Protection from moving parts involved in the work	5
4.3	Noise	5
4.4	Vibration	6
4.5	Controls	6
4.6	Automatic mode of operation	7
4.7	Operator stations	7
4.8	Other than operator stations	10
4.9	Folding elements	12
4.10	Strength requirements for guards and barriers	12
4.11	Supports for service and maintenance	12
4.12	Electric equipment	13
4.13	Hydraulic components and fittings	13
4.14	Pneumatic systems	13
4.15	Operating fluids	13
4.16	Manual operation of individual assemblies	14
4.17	Service and handling of machine parts	14
4.18	Electromagnetic compatibility	14
4.19	Emergency stop	14
4.20	Safety-related parts of control systems	15
5	Safety requirements and/or measures — Self-propelled ride-on machines	15
5.1	Operator station	15
5.2	Moving the machine	18
5.3	Electric	19
5.4	Fuel tank	19
5.5	Hot surfaces	19
5.6	Exhaust gases	19
5.7	Roll- and tip-over	19
6	Safety requirements and/or measures — Mounted, semi-mounted and trailed machines	20
6.1	Controls	20
6.2	Stability	20
6.3	Hitches for towing	21
6.4	Transmission of mechanical power between self-propelled machines/tractors and recipient machinery	21
6.5	Hydraulic, pneumatic and electrical connections with a self-propelled machine or towing vehicle	22

7	Verification of safety requirements or protective measures	22
8	Information for use	23
8.1	General.....	23
8.2	Operator’s manual.....	23
8.3	Safety and instructional signs.....	24
8.4	Marking.....	25
	Annex A (informative) List of significant hazards	26
	Annex B (normative) Noise test code (engineering method grade 2)	30
	Annex C (normative) Strength tests	34
	Annex D (informative) Stability of tractor machine combinations	36
	Bibliography	38