

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