

# DIN EN ISO 4254-1:2011-05 (E)

Agricultural machinery - Safety - Part 1: General requirements (ISO 4254-1:2008)  
(includes Corrigendum AC:2010)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		4
Introduction .....		5
<b>1</b>	<b>Scope .....</b>	<b>6</b>
<b>2</b>	<b>Normative references .....</b>	<b>7</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>8</b>
<b>4</b>	<b>Safety requirements and/or measures applicable to all machines .....</b>	<b>9</b>
4.1	Fundamental principles, design guidance .....	9
4.2	Noise .....	9
4.3	Vibration .....	9
4.4	Controls .....	10
4.5	Operator stations .....	10
4.5.1	Boarding means .....	10
4.5.2	Platforms .....	12
4.6	Boarding means for other than operator stations .....	14
4.7	Strength requirements for guards and barriers .....	15
4.8	Supports for service and maintenance .....	16
4.8.1	General .....	16
4.8.2	Mechanical supports .....	16
4.8.3	Hydraulic locking devices .....	16
4.9	Electrical equipment .....	16
4.10	Hydraulic components and fittings .....	17
4.11	Pneumatic systems .....	17
4.12	Operating fluids .....	17
4.13	Manual operation of individual assemblies .....	17
4.14	Service, maintenance and handling .....	17
<b>5</b>	<b>Safety requirements and/or measures -- Self-propelled ride-on machines .....</b>	<b>18</b>
5.1	Operator station .....	18
5.1.1	Access to operator's seat .....	18
5.1.2	Operator's seat .....	18
5.1.3	Propulsion and steering .....	18
5.1.4	Shearing and pinching points .....	20
5.1.5	Emergency exit .....	20
5.1.6	Cab material burning rate .....	20
5.1.7	Visibility .....	21
5.1.8	Starting and stopping the engine .....	21
5.2	Moving the machine .....	21
5.2.1	Attachments for towing .....	21
5.2.2	Moveable attachments .....	21
5.2.3	Use of lifting jacks .....	21
5.3	Electric .....	22
5.4	Fuel tank .....	22
5.5	Hot surfaces .....	22
5.6	Exhaust gases .....	22
<b>6</b>	<b>Safety requirements and/or measures -- Mounted, semi-mounted and trailed machines ...</b>	<b>22</b>

6.1	Controls .....	22
6.2	Stability .....	23
6.2.1	General .....	23
6.2.2	Mounted and semi-mounted machines .....	23
6.2.3	Trailed machines with vertical load on draw bar hitch 500 N .....	23
6.3	Hitches for towing .....	24
6.4	Transmission of mechanical power between self-propelled machines/tractors and recipient machinery .....	24
6.4.1	General .....	24
6.4.2	Stationary operation .....	24
6.5	Hydraulic, pneumatic and electrical connections with a self-propelled machine .....	24
7	Verification of safety requirements or protective measures .....	25
8	Information for use .....	25
8.1	Operator's manual .....	25
8.2	Safety and instructional signs .....	26
8.3	Marking .....	27
	Annex A (informative) List of significant hazards .....	28
	Annex B (normative) Noise test code (engineering method grade 2) .....	33
	Annex C (normative) Strength tests .....	37
	Bibliography .....	40
	Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC .....	41
	Annex ZB (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC .....	42