



Area of application: basic principles

## **Check list for the requirements for machines according to Annex I, section 2 to 6 of EC Machinery Directive 2006/42/EC "Additional essential health and safety requirements"**

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identification number 1246

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**Check list  
for the requirements for machines according to  
Annex I, section 2 to 6 of EC Machinery Directive  
2006/42/EC "Additional essential health and safety  
requirements"**

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**Check list  
for the requirements for machines according to Annex I, sections 2 to 6  
of EC Machinery Directive 2006/42/EC  
“Additional essential health and safety requirements”**

**Customer:** .....

**Order number:** .....  
*(Information in italics will be completed by the certification body)*

**Product details**

Q.v. CE08-7.e and CE08-8.e

**Check list structure**

This check list is a supplement to the check list CE08-8.e “General requirements” according to EC Machinery Directive 2006/42/EC, Annex I, section 1.

The check list is structured according to sections 2 to 6 in line with Annex I of Directive 2006/42/EC. Basically, the requirements must be fulfilled. The check-list questions must be understood as a summary; in individual cases, the requirements must be consulted.

In the first 4 columns, an  is used to indicate whether this criterion is relevant. The fifth column is free for individual criteria.

**Comments**

To prevent the check list from becoming excessively long, the space required for completion has deliberately been kept small. A copy template has been appended to the end of the check list. Additional information can be given with reference to the corresponding question.

In order to reduce the work done by both parties for the type-examination test, please complete the “Verification” lines, i.e. the reference where information on the question asked can be found in the technical documentation.

Assembly	Operation	Maintenance	Cleaning		<b>Essential health and safety requirements for the design and construction of machines</b>  <b>According to sections 2 to 6 of the Annex I of Directive 2006/42/EC</b>	Initialled	
						Fulfilled	Not fulfilled
					<b>2. Supplementary essential health and safety requirements for certain categories of machinery</b>		
					<b>2.1 Foodstuff machinery and machinery for cosmetics or pharmaceutical products</b>		
					2.1.1. General		
					Is the risk of infection, illness or contagion excluded?		
					Are the design approaches used suitable?		
					Verification <i>Comment</i>		
					Are the materials used suitable and do they correspond to the pertinent directive? (89/109/EEC)		
					Verification <i>Comment</i>		
					Are the equipment parts free from bumps and hollows to prevent organic substances from adhering to rough areas?		
					Verification <i>Comment</i>		
					Are connections, protruding parts, strip material and hidden corners reduced to a minimum?		
					Verification <i>Comment</i>		
					Can all machine parts that come into contact with foodstuffs or pharmaceutical products be easily cleaned and disinfected?		
					Verification <i>Comment</i>		
					Can cleaning and disinfecting agents drain off without restriction?		
					Verification <i>Comment</i>		
					Has the machine been built in such a way as to prevent any infiltration of liquids, settling of organic substances or ingress of living creatures (insects) into areas of the machine that are inaccessible for cleaning?		
					Verification <i>Comment</i>		

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						Fulfilled	Not fulfilled
					Has the machine been built in such a way that operating substances (e.g. lubricants) cannot come into contact with foodstuffs and that this can be checked on the machine?		
					Verification <i>Comment</i>		
					<b>2.1.2 Instructions</b>		
					Do the operating instructions contain the information required for cleaning, disinfecting and rinsing agent procedures?		
					Verification <i>Comment</i>		
					<b>2.2 Portable handheld and/or hand-guided machinery</b>		
					<b>2.2.1 General</b>		
					Has the machine been built in such a way that its stability when used appropriately is guaranteed by a satisfactorily large supporting surface and an adequate number of correctly dimensioned and arranged handles?		
					Verification <i>Comment</i>		
					Has the machine been designed and fitted with controls in such a manner that the handles need not be released to start it up or shut it down safely?		
					Verification <i>Comment</i>		
					Can the entry of the cutting tool into the material being machined be visually checked?		
					Verification <i>Comment</i>		
					<b>2.2.1.1 Instructions</b>		
					Do the operating instructions contain information on vibration?		
					Verification <i>Comment</i>		
					<b>2.2.2 Portable fixing and other impact machinery</b>		
					<b>2.2.2.1 General</b>		
					Can the impact only be triggered off when the tool is positioned correctly?		
					Verification <i>Comment</i>		

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						Fulfilled	Not fulfilled
					Are the protection devices required provided by the manufacturer?		
					Verification <i>Comment</i>		
					<b>2.2.2.2 Instructions</b>		
					Is the information required correctly provided?		
					Verification <i>Comment</i>		
					<b>2.3 Machinery for working wood and material with similar physical characteristics</b>		
					Has the machine been designed and built in such a way that the surface for the workpiece provides adequate stability and that the workpiece is securely positioned, guided and, when moved manually, is not obstructed?		
					Verification <i>Comment</i>		
					Has the machine been designed and built so that a return blow of a workpiece is avoided or that nobody is hurt by a return blow?		
					Verification <i>Comment</i>		
					Is the machine fitted with brakes?		
					Is the risk of injuries satisfactorily minimised in the case of semi-automatic machines?		
					Verification <i>Comment</i>		
					<b>2.4 Machinery for pesticide application</b>		
					<b>2.4.1 Definition</b>		
					“Machinery for pesticide application”: machinery that is specifically intended for the application of plant protection products within the meaning of Article 2(1) of Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market.		
					<b>2.4.2 General</b>		
					Have the risks of the unintended exposure of the environment to pesticides been assessed and reduced?		

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						Fulfilled	Not fulfilled
					Has the machinery been designed and constructed so that the machinery can be operated, adjusted and maintained without unintended exposure of the environment to pesticides?		
					Are leakages prevented at all times?		
					Verification <i>Comment</i>		
					<b>2.4.3 Controls and monitoring</b>		
					Is it possible to easily and accurately control, monitor and immediately stop the pesticide application from the operating positions?		
					Verification <i>Comment</i>		
					<b>2.4.4 Filling and emptying</b>		
					Has the machinery been designed and constructed to facilitate precise filling with the necessary quantity of pesticide and to ensure easy and complete emptying, while preventing spillage of pesticide and avoiding the contamination of the water source during such operations?		
					Verification <i>Comment</i>		
					<b>2.4.5 Application of pesticides</b>		
					<b>2.4.5.1 Application rate</b>		
					Is the machinery fitted with a means of adjusting the application rate easily, accurately and reliably?		
					Verification <i>Comment</i>		
					<b>2.4.5.2 Distribution, deposition and drift of pesticide</b>		
					Has the machinery been designed and constructed to ensure that pesticide is deposited on target areas, to minimise losses to other areas and to prevent drift of pesticide to the environment?		
					Where this is appropriate: is an even distribution and homogeneous deposition ensured?		
					Verification <i>Comment</i>		

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						Fulfilled	Not fulfilled
					2.4.5.3 Tests		
					Can the manufacturer or his authorised representative substantiate the requirements set out in sections 2.4.5.1 and 2.4.5.2 with a test?		
					Verification <i>Comment</i>		
					2.4.5.4 Losses during stoppage		
					Has the machinery been designed and constructed to prevent losses during and after the stoppage of the pesticide application function?		
					Verification <i>Comment</i>		
					2.4.6 Maintenance		
					2.4.6.1 Cleaning		
					Has the machinery been designed and constructed to allow its easy and thorough cleaning without contamination of the environment?		
					Verification <i>Comment</i>		
					2.4.6.2 Servicing		
					Has the machinery been designed and constructed to facilitate the unobstructed changing of worn parts without contamination of the environment?		
					Verification <i>Comment</i>		
					2.4.7 Inspections		
					Can the necessary measuring instruments be easily connected to the machinery to check the correct functioning of the machinery?		
					Verification <i>Comment</i>		
					2.4.8 Marking of nozzles, strainers and filters		
					Are these elements marked so that their type and size can be clearly identified?		
					Verification <i>Comment</i>		



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						Fulfilled	Not fulfilled
					2.4.9 Indication of pesticide in use		
					Can, where appropriate, the name of the pesticide in use be displayed by the operator?		
					Verification <i>Comment</i>		
					2.4.10 Instructions		
					Is the following information given in the operating instructions?		
					a) precautions to be taken during mixing, loading, application, emptying, cleaning, servicing and transport operations in order to avoid contamination of the environment;		
					b) detailed conditions of use for the different operating environments envisaged, including the corresponding preparation and adjustments required to ensure the deposition of pesticide on target areas while minimising losses to other areas, to prevent drift to the environment and, where appropriate, to ensure an even distribution and homogeneous deposition of pesticide;		
					c) the range of types and sizes of nozzles, strainers and filters that can be used with the machinery;		
					d) the frequency of checks and the criteria and method for the replacement of parts subject to wear that affect the correct functioning of the machinery, such as nozzles, strainers and filters;		
					e) specification of calibration, daily maintenance, winter preparation and other checks necessary to ensure the correct functioning of the machinery;		
					f) types of pesticides that may cause incorrect functioning of the machinery;		
					g) an indication that the operator should keep updated the name of the pesticide in use on the specific mounting referred to in section 2.4.9;		
					h) the connexion and use of any special equipment or accessories, and the necessary precautions to be taken;		
					i) an indication that the machinery may be subject to national requirements for regular inspection by designated bodies, as provided for in Directive 2009/128/EC of the European Parliament and of the Council of 21 October 2009 establishing a framework for Community action to achieve the sustainable use of pesticides;		

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						Fulfilled	Not fulfilled
					j) the features of the machinery which must be inspected to ensure its correct functioning;		
					k) instructions for connecting the necessary measuring instruments.		
					Verification <i>Comment</i>		
					<b>3. Supplementary essential health and safety requirements to offset hazards due to the mobility of machinery</b>		
					<b>3.1 General</b>		
					3.1.1 Definitions		
					Is the machine mobile?		
					Verification <i>Comment</i>		
					<b>3.2 Work positions</b>		
					3.2.1 Driving position		
					Can the machine be operated from the driver's position with a good overall view?		
					Is the driver protected from contact with wheels or chains?		
					Does the machine have a cab for the driver?		
					Verification <i>Comment</i>		
					3.2.2. Seating		
					Is the machine fitted with restraint systems?		
					Verification <i>Comment</i>		
					3.2.3. Positions for other persons		
					Is the machine fitted with additional places to transport people?		
					Verification <i>Comment</i>		
					<b>3.3 Control systems</b>		
					Is the control system secure against unauthorised usage?		
					Verification <i>Comment</i>		

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						Fulfilled	Not fulfilled
					<b>3.3.1 Control devices</b>		
					Does the arrangement of the adjustment components correspond to the demands in all parts?		
					Verification <i>Comment</i>		
					<b>3.3.2 Starting/moving</b>		
					Can the machine only be operated from a safe driving position?		
					Verification <i>Comment</i>		
					<b>3.3.3 Travelling function</b>		
					Can the machine be safely braked in any situation?		
					Verification <i>Comment</i>		
					<b>3.3.4 Movement of pedestrian-controlled machinery</b>		
					Does the functioning of the control components correspond to requirements in all aspects?		
					Verification <i>Comment</i>		
					<b>3.3.5 Control circuit failure</b>		
					Can the machine also be controlled if steering power assistance fails?		
					Verification <i>Comment</i>		
					<b>3.4 Protection against mechanical hazards</b>		
					<b>3.4.1 Uncontrolled movements</b>		
					Is stability maintained if the centre of gravity shifts?		
					Verification <i>Comment</i>		
					<b>3.4.2 Moving transmission parts</b>		
					Do any existing moving transmission elements fulfil demands?		
					Verification <i>Comment</i>		

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					Fulfilled	Not fulfilled
				3.4.3 Roll-over and tip-over		
				Is the machine equipped with effective antiroll protection?		
				Verification Comment		
				3.4.4 Falling objects		
				Is the machine effectively protected against falling objects?		
				Verification Comment		
				3.4.5 Means of access		
				Are the access options fitted in such a way that they can be used without obstructing any operating elements?		
				Verification Comment		
				3.4.6 Towing devices		
				Is the machine equipped with a suitable towing device?		
				Verification Comment		
				3.4.7 Transmission of power between self-propelled machinery (or a tractor) and recipient machinery		
				Are the articulated shafts protected along their entire length?		
				Is the machine fitted with a torque limiter?		
				In the area of removable articulated shafts, are access points specified for workplaces?		
				Verification Comment		
				<b>3.5 Protection against other hazards</b>		
				3.5.1 Batteries		
				Is the battery compartment arranged to avoid the accumulation of fumes at the operator's position?		
				Can the batteries be disconnected using devices provided?		
				Verification Comment		
				3.5.2 Fire		
				Is the machine fitted with fire-fighting equipment?		
				Verification Comment		

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						Fulfilled	Not fulfilled
					<b>3.5.3 Emissions of hazardous substances</b>		
					Is the operating personnel satisfactorily protected against the emission of harmful substances?		
					Verification <i>Comment</i>		
					<b>3.6 Information and indications</b>		
					<b>3.6.1 Signs, signals and warnings</b>		
					Is the machine marked with the required symbols and warning plates?		
					Is an acoustic warning device fitted?		
					Are the movements of remote-controlled machines indicated?		
					Verification <i>Comment</i>		
					<b>3.6.2 Marking</b>		
					Is all the required information available in the quality required?		
					Verification <i>Comment</i>		
					<b>3.6.3 Instructions</b>		
					<b>3.6.3.1 Vibrations</b>		
					Is the required information about transmitted vibration available?		
					Verification <i>Comment</i>		
					<b>3.6.3.2 Multiple uses</b>		
					Do the operating instructions indicate that the machine can be used in several different ways?		
					Verification <i>Comment</i>		
					<b>4. Supplementary essential health and safety requirements to offset hazards due to lifting operations</b>		
					<b>4.1 General</b>		
					<b>4.1.1 Definitions</b>		
					Are defined terms used?		
					Verification <i>Comment</i>		

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						Fulfilled	Not fulfilled
					4.1.2 Protection against mechanical hazards		
					4.1.2.1 Risks due to lack of stability		
					Is stability achieved in all load cases?		
					Verification <i>Comment</i>		
					4.1.2.2 Machinery running on guide rails and rail tracks		
					Is the machine secured against derailment?		
					Verification <i>Comment</i>		
					4.1.2.3 Mechanical strength		
					Are the correct coefficients for all operating states taken into consideration in the strength calculations? Static tests: Appropriate safety level a) Manually-operated machinery and lifting accessories: 1,5 b) Other machinery: 1,25 c) Dynamic tests: Appropriate safety level: 1,1		
					Verification <i>Comment</i>		
					4.1.2.4 Pulleys, drums, wheels, ropes and chains		
					Are the correct operating coefficients for the suspension equipment used taken into account in calculations? Appropriate safety level: - For ropes and rope ends: 5 - For lifting chains: 4		
					Verification <i>Comment</i>		
					4.1.2.5 Lifting accessories and their components		
					Are the correct operating coefficients for the components used taken into account in calculations? Appropriate safety level for: - Wire ropes/rope-ends combination: 5 - Chains: 4 - Textile ropes or slings: 7 - Slings: 4		
					Verification <i>Comment</i>		

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						Fulfilled	Not fulfilled
					4.1.2.6 Control of movements		
					Can the movement limiters halt the machine in a safe position?		
					Verification <i>Comment</i>		
					4.1.2.7 Movements of loads during handling		
					Can the course of movement of the machine be monitored from the operator's position?		
					Verification <i>Comment</i>		
					4.1.2.8 Machinery serving fixed landings		
					4.1.2.8.1 Movements of the carrier		
					Is the carrier rigidly supported?		
					Verification <i>Comment</i>		
					4.1.2.8.2 Access to the carrier		
					Can the carrier be safely accessed?		
					Verification <i>Comment</i>		
					4.1.2.8.3 Risks due to contact with the moving carrier		
					Is the space required for inspection and maintenance available?		
					Verification <i>Comment</i>		
					4.1.2.8.4 Risks due to the load falling off the carrier		
					What measures have been taken to prevent loads from falling?		
					Verification <i>Comment</i>		
					4.1.2.8.5 Landings		
					What measures have been taken to prevent people from falling?		
					Verification <i>Comment</i>		

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						Fulfilled	Not fulfilled
					4.1.3 Fitness for purpose		
					Was the full functionality of the machine tested before it was first used?		
					Verification <i>Comment</i>		
					<b>4.2 Requirements for machinery whose power source is other than manual effort</b>		
					4.2.1 Control of movements		
					Do the adjustment components return to their original position by themselves?		
					Verification <i>Comment</i>		
					4.2.2 Loading control		
					Are the load limiters required installed? (Maximum carrying capacity greater or equal to 1,000 kg, or a tipping moment greater or equal to 40,000 Nm)		
					Verification <i>Comment</i>		
					4.2.3 Installations guided by ropes		
					Are devices fitted to maintain pretension?		
					Verification <i>Comment</i>		
					<b>4.3 Information and markings</b>		
					4.3.1 Chains, ropes and webbing		
					Is the data required for the marking available?		
					Manufacturer's name and address		
					Description with nominal measurements, configuration, material, possibly metallurgical special treatment		
					Information on the testing method used		
					Max. carrying capacity/value range		
					Verification <i>Comment</i>		
					4.3.2 Lifting accessories		
					Is the data required for the marking available?		
					Verification <i>Comment</i>		



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						Fulfilled	Not fulfilled
					<b>4.3.3 Lifting machinery</b>		
					Is the carrying capacity marked on it?		
					Are the load diagrams available if necessary?		
					Verification <i>Comment</i>		
					<b>4.4 Instructions</b>		
					<b>4.4.1 Lifting accessories</b>		
					Are adequate operating instructions available to meet demands?		
					Verification <i>Comment</i>		
					<b>4.4.2 Lifting machinery</b>		
					Are adequate operating instructions available to meet demands?		
					Verification <i>Comment</i>		
					<b>5. Supplementary essential health and safety requirements for machinery intended for underground work</b>		
					<b>5.1 Risks due to lack of stability</b>		
					Is it impossible for the machine to topple over?		
					Verification <i>Comment</i>		
					<b>5.2 Movement</b>		
					Can people move without any hindrance?		
					Verification <i>Comment</i>		
					<b>5.3 Control devices</b>		
					Does the arrangement of the adjustment components correspond to the demands in all parts?		
					Verification <i>Comment</i>		
					<b>5.4 Stopping</b>		
					Is the function button installed correctly?		
					Verification <i>Comment</i>		

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						Fulfilled	Not fulfilled
					<b>5.5 Fire</b>		
					Is the brake system built in such a way that no sparks or fires can be created?		
					Verification <i>Comment</i>		
					<b>5.6 Exhaust emissions</b>		
					Does the system allow exhaust emissions to escape upwards?		
					Verification <i>Comment</i>		
					<b>6. Supplementary essential health and safety requirements for machinery presenting particular hazards due to the lifting of persons</b>		
					<b>6.1 General</b>		
					6.1.1 Mechanical strength		
					Is the load carrier strong enough to meet the demands and does it have enough space for people?		
					Verification <i>Comment</i>		
					6.1.2 Loading control for machinery moved by power other than human strength		
					How is the risk of overloading and toppling counteracted?		
					Verification <i>Comment</i>		
					<b>6.2 Control devices</b>		
					Does the arrangement of the adjustment components correspond to the demands in all parts?		
					Verification <i>Comment</i>		
					<b>6.3 Risks to persons in or on the carrier</b>		
					6.3.1 Risks due to movements of the carrier		
					Are people not at risk from accelerating and decelerating forces?		
					Verification <i>Comment</i>		

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						Fulfilled	Not fulfilled
					6.3.2 Risk of persons falling from the carrier		
					Is the stability of the carrier guaranteed in all positions?		
					Verification <i>Comment</i>		
					6.3.3.Risks due to objects falling on the carrier		
					Is the machine effectively protected against falling objects?		
					Verification <i>Comment</i>		
					<b>6.4 Machinery serving fixed landings</b>		
					6.4.1 Risks to persons in or on the carrier		
					Can the carrier be moved so that people are not at risk?		
					Verification <i>Comment</i>		
					6.4.2 Controls at landings		
					Are the controls arranged to prevent any dangerous movements at the stops?		
					Verification <i>Comment</i>		
					6.4.3 Access to the carrier		
					Can the carrier be safely accessed?		
					Verification <i>Comment</i>		
					<b>6.5 Markings</b>		
					Is the carrier correctly marked? - Permissible number of people carried - Max. carrying capacity		
					Verification <i>Comment</i>		

**For supplements to the individual check-list entries**

Assembly	Operation	Maintenance	Cleaning		<b>Essential health and safety requirements for the design and construction of machines</b>  <b>According to sections 2 to 6 of Annex I of Directive 2006/42/EC</b>	<i>Initialled</i>	
						<i>Fulfilled</i>	<i>Not fulfilled</i>

**Assessment**

*Requirements fulfilled*

*Requirements not fulfilled*

*Comments:* .....  
.....  
.....

	<i>Place:</i>	<i>Date:</i>	<i>Signature:</i>	<i>Initialed by:</i>
<i>Safety expert :</i>	.....	.....	.....	.....
<i>Experts consulted:</i>	.....	.....	.....	.....
<i>Specialists :</i>	.....	.....	.....	.....
<i>Specialists :</i>	.....	.....	.....	.....