

Directive 98/37/EC of the European Parliament and of the Council of 22 June 1998 on the approximation of the laws of the Member States relating to machinery (repealed)

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ANNEX I

ESSENTIAL HEALTH AND SAFETY REQUIREMENTS RELATING TO THE DESIGN AND CONSTRUCTION OF MACHINERY AND SAFETY COMPONENTS

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PRELIMINARY OBSERVATIONS

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2.
3.

1 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

- 1.1. General remarks
 - 1.1.1. Definitions
 - 1.1.2. Principles of safety integration
 - 1.1.3. Materials and products
 - 1.1.4. Lighting
 - 1.1.5. Design of machinery to facilitate its handling
- 1.2. Controls
 - 1.2.1. Safety and reliability of control systems
 - 1.2.2. Control devices
 - 1.2.3. Starting
 - 1.2.4. Stopping device
 - Normal stopping
 - Emergency stop
 - Complex installations
 - 1.2.5. Mode selection
 - 1.2.6. Failure of the power supply
 - 1.2.7. Failure of the control circuit
 - 1.2.8. Software
- 1.3. Protection against mechanical hazards
 - 1.3.1. Stability
 - 1.3.2. Risk of break-up during operation
 - 1.3.3. Risks due to falling or ejected objects
 - 1.3.4. Risks due to surfaces, edges or angles
 - 1.3.5. Risks related to combined machinery
 - 1.3.6. Risks relating to variations in the rotational speed of tools...
 - 1.3.7. Prevention of risks related to moving parts
 - 1.3.8. Choice of protection against risks related to moving parts
 - A. Moving transmission parts
 - B. Moving parts directly involved in the process
- 1.4. Required characteristics of guards and protection devices
 - 1.4.1. General requirements
 - 1.4.2. Special requirements for guards
 - 1.4.2.1. Fixed guards
 - 1.4.2.2. Movable guards
 - A.
 - B.
 - 1.4.2.3. Adjustable guards restricting access
 - 1.4.3. Special requirements for protection devices
- 1.5. Protection against other hazards
 - 1.5.1. Electricity supply
 - 1.5.2. Static electricity
 - 1.5.3. Energy supply other than electricity
 - 1.5.4. Errors of fitting
 - 1.5.5. Extreme temperatures
 - 1.5.6. Fire
 - 1.5.7. Explosion
 - 1.5.8. Noise

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- 1.5.9. Vibration
- 1.5.10. Radiation
- 1.5.11. External radiation
- 1.5.12. Laser equipment
- 1.5.13. Emissions of dust, gases, etc.
- 1.5.14. Risk of being trapped in a machine
- 1.5.15. Risk of slipping, tripping or falling
- 1.6. Maintenance
 - 1.6.1. Machinery maintenance
 - 1.6.2. Access to operating position and servicing points
 - 1.6.3. Isolation of energy sources
 - 1.6.4. Operator intervention
 - 1.6.5. Cleaning of internal parts
- 1.7. Indicators
 - 1.7.0. Information devices
 - 1.7.1. Warning devices
 - 1.7.2. Warning of residual risks
 - 1.7.3. Marking
 - 1.7.4. Instructions
- 2. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS FOR CERTAIN CATEGORIES OF MACHINERY...
 - 2.1. Agri-foodstuffs machinery
 - Instructions
 - 2.2. Portable hand-held and/or hand-guided machinery
 - Instructions
 - 2.3. Machinery for working wood and analogous materials
- 3. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS TO OFFSET THE PARTICULAR HAZARDS...
 - 3.1. General
 - 3.1.1. Definition
 - 3.1.2. Lighting
 - 3.1.3. Design of machinery to facilitate its handling
 - 3.2. Work stations
 - 3.2.1. Driving position
 - 3.2.2. Seating
 - 3.2.3. Other places
 - 3.3. Controls
 - 3.3.1. Control devices
 - 3.3.2. Starting/moving
 - 3.3.3. Travelling function
 - 3.3.4. Movement of pedestrian-controlled machinery
 - 3.3.5. Control circuit failure
 - 3.4. Protection against mechanical hazards
 - 3.4.1. Uncontrolled movements
 - 3.4.2. Risk of break-up during operation
 - 3.4.3. Rollover
 - 3.4.4. Falling objects
 - 3.4.5. Means of access
 - 3.4.6. Towing devices
 - 3.4.7. Transmission of power between self-propelled machinery (or tractor) and recipient...

- 3.4.8. Moving transmission parts
 - 3.5. Protection against other hazards
 - 3.5.1. Batteries
 - 3.5.2. Fire
 - 3.5.3. Emissions of dust, gases, etc.
 - 3.6. Indications
 - 3.6.1. Signs and warning
 - 3.6.2. Marking
 - 3.6.3. Instruction handbook
- 4. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS TO OFFSET THE PARTICULAR HAZARDS...
 - 4.1. General remarks
 - 4.1.1. Definitions
 - 4.1.2. Protection against mechanical hazards
 - 4.1.2.1. Risks due to lack of stability
 - 4.1.2.2. Guide rails and rail tracks
 - 4.1.2.3. Mechanical strength
 - 4.1.2.4. Pulleys, drums, chains or ropes
 - 4.1.2.5. Separate lifting accessories
 - 4.1.2.6. Control of movements
 - 4.1.2.7. Handling of loads
 - 4.1.2.8. Lightning
 - 4.2. Special requirements for machinery whose power source is other than...
 - 4.2.1. Controls
 - 4.2.1.1. Driving position
 - 4.2.1.2. Seating
 - 4.2.1.3. Control devices
 - 4.2.1.4. Loading control
 - 4.2.2. Installation guided by cables
 - 4.2.3. Risks to exposed persons. Means of access to driving position...
 - 4.2.4. Fitness for purpose
 - 4.3. Marking
 - 4.3.1. Chains and ropes
 - 4.3.2. Lifting accessories
 - 4.3.3. Machinery
 - 4.4. Instruction handbook
 - 4.4.1. Lifting accessories
 - 4.4.2. Machinery
- 5. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS FOR MACHINERY INTENDED FOR UNDERGROUND...
 - 5.1. Risks due to lack of stability
 - 5.2. Movement
 - 5.3. Lighting
 - 5.4. Control devices
 - 5.5. Stopping
 - 5.6. Fire
 - 5.7. Emissions of dust, gases, etc.
- 6. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS TO OFFSET THE PARTICULAR HAZARDS...
 - 6.1. General

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- 6.1.1. Definition
- 6.1.2. Mechanical strength
- 6.1.3. Loading control for types of device moved by power other...
- 6.2. Controls
 - 6.2.1.
 - 6.2.2.
 - 6.2.3.
- 6.3. Risks of persons falling from the carrier
 - 6.3.1.
 - 6.3.2.
 - 6.3.3.
- 6.4. Risks of the carrier falling or overturning
 - 6.4.1.
 - 6.4.2.
- 6.5. Markings

ANNEX II

- A. Contents of the EC declaration of conformity for machinery
- B. Contents of the declaration by the manufacturer or his authorised...
- C. Contents of the EC declaration of conformity for safety components...

ANNEX III

CE CONFORMITY MARKING

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ANNEX IV

TYPES OF MACHINERY AND SAFETY COMPONENTS FOR WHICH THE PROCEDURE REFERRED TO IN ARTICLE 8(2)(b) AND (c) MUST BE APPLIED

- A. Machinery
 - 1.
 - 1.1.
 - 1.2.
 - 1.3.
 - 1.4.
 - 2.
 - 3.
 - 4.
 - 5.
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 - 7.
 - 8.
 - 9.
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- 11.
- 12.
- 13.
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- 16.
- 17.

B. Safety components

- 1.
- 2.
- 3.
- 4.
- 5.

ANNEX V

EC DECLARATION OF CONFORMITY

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- 1.
- 2.
- 3.
- 4.

ANNEX VI

EC TYPE-EXAMINATION

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- 1.
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- 7.

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ANNEX VII

MINIMUM CRITERIA TO BE TAKEN INTO ACCOUNT BY MEMBER STATES FOR THE NOTIFICATION OF BODIES

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ANNEX VIII

Part A
Repealed Directives

Part B
List of deadlines for transposition into and application in national law

ANNEX IX

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