
CHAPTER I

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ANNEX I

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

. . . . . . . . . ....
PRELIMINARY OBSERVATIONS

1. . . . . . . . . ..... 
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
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
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. ..............
6. ..............
7. ..............
8. ..............
9. ..............
10. .............
11. ................
12. ................
13. ................
14. ................
15. ................
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. .................
2. .................
3. .................
4. .................
5. .................
6. .................
7. .................
ANNEX VII
MINIMUM CRITERIA TO BE TAKEN INTO ACCOUNT BY MEMBER STATES FOR THE NOTIFICATION OF BODIES

1. . . . . . . . .
2. . . . . . . . .
3. . . . . . . . .
4. . . . . . . . .
5. . . . . . . . .
6. . . . . . . . .
7. . . . . . . . .

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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