

Components for safety applications

Dangerous machines and safety components subject to CE type inspection (appendix IV of the machinery directive)

Dangerous machines

1. Single and multi-blade circular saws for sawing wood and similar materials or for sawing meat and similar materials.
 - 1.1 Sawing machines with tool in fixed position when operating, with fixed bed and manual feed of the part, or with removable driver.
 - 1.2 Sawing machines with tool in fixed position when operating, with bench type bed or manually operated, reciprocating movement carrier.
 - 1.3 Sawing machines with tool in fixed position when operating, comprising a factory fitted mechanical driving device for the parts to be sawn, with manual loading or unloading.
 - 1.4 Sawing machines with moving tool when operating, mechanically moved, with manual loading and/or unloading.
2. Manual feed rough planing machines for working wood.
3. Single face planing machines, with manual loading or unloading, for working wood and processing meat products.
4. Band saws with fixed bed or moving carrier and manual loading and/or unloading, for working wood and similar materials or meat and similar materials.
5. Combination machines of the types described in points 1 to 4 and in point 7, for working wood and similar materials.
6. Multi-spindle tenoning machines with manual feed, for working wood .
7. Vertical spindle moulding machines with manual feed, for working wood and similar materials.
8. Portable chain saws for working wood.
9. Presses, including folding machines, for cold working of metal, with manual loading and/or unloading, whose moving working components can have a travel greater than 6 millimetres and a speed greater than 30 millimetres per second.
10. Plastic injection or compression moulding machines, with manual loading or unloading.
11. Rubber injection or compression moulding machines, with manual loading or unloading.
12. Machines for underground work of the following types:
 - moving machines on rails: locomotives and braking trucks
 - moving hydraulic props,
 - internal combustion engines designed to be fitted on machines used for underground work.
13. Domestic refuse collection trucks, with manual loading and comprising a compression mechanism.
14. Removable universal joint type power transmission shafts and protective devices as described in points 3.4.7.
15. Vehicle lifting ramps.
16. Devices designed for lifting persons, with risk of vertical falls greater than 3 metres.
17. Machines for making pyrotechnic articles.

Safety components

1. Electro-sensitive devices designed for the detection of persons (security light barriers, sensitive mats, electromagnetic sensors).
2. Logic blocks performing safety functions for two-hand control units.
3. Automatic moving guards for protection of the machines described in points 9, 10 and 11 above.
4. Roll over protection structures (ROPS).
5. Falling object protection structures (FOPS).