

## **Classifications of Machinery Directive annex IV**

### **A. Machinery**

1. Circular saws (single or multi-blade) for working with wood and analogous materials and meat and analogous materials, including:
  1. 1.1 Sawing machines with a fixed tool during operation, having a fixed bed with manual feed of the 'workpiece' or with a demountable power feed;
  2. 1.2 Sawing machines with fixed tool during operation, having a manually operated reciprocating saw-bench or carriage;
  3. 1.3 Sawing machines with fixed tool during operation, having a built-in mechanical feed device for the 'workpieces', and with manual loading and / or unloading;
  4. 1.4 Sawing machines with movable tool during operation, with a mechanical feed device and manual loading and/or unloading.
2. Hand-fed surface planing machines for woodworking.
3. Thicknessers for one-side dressing with manual loading and/or unloading for woodworking.
4. Band-saws with a fixed or mobile bed and band-saws with a mobile carriage, with manual loading and/or unloading, for working with wood and analogous materials and for working with meat and analogous materials.
5. Combined machines of the types referred to in 1 to 4 and 7 for working with wood and analogous materials.
6. Hand-fed tenoning machines with several tool holders for woodworking.
7. Hand-fed vertical spindle moulding machines for working with wood and analogous materials.
8. Portable chain saws for woodworking.
9. Presses, including press-brakes, for the cold working of metals, with manual loading and/or unloading, whose movable working parts may have a travel exceeding 6mm and a speed exceeding 30 mm/s.
10. Injection or compression plastics-moulding machines with manual loading or unloading.
11. Injection or compression rubber-moulding machines with manual loading or unloading.
12. Machinery for underground working of the following types: machinery on rails: locomotives and brake-vans; hydraulic-powered roof supports; internal combustion engines to be fitted to machinery for underground working.
13. Manually-loaded trucks for the collection of household refuse incorporating a compression mechanism.
14. Guards and detachable transmission shafts with universal joints.
15. Vehicles servicing lifts.
16. Devices for the lifting of persons involving a risk of falling from a vertical height of more than three metres.
17. Machines for the manufacture of pyrotechnics.

### **B. Safety components**

1. Electro-sensitive devices designed specifically to detect persons in order to ensure their safety (non-material barriers, sensor mats, electromagnetic detectors, etc.).
2. Logic units which ensure the safety functions of bi-manual controls.
3. Automatic movable screens to protect the presses referred to in 9, 10 and 11.
4. Roll-over protection structures (ROPS).
5. Falling-object protective structures (FOPS).

