

1 Packaging machines and devices

1.1 Preparing and feeding

- 1.1.1 Erecting machines for cardboard articles
- 1.1.2 Machines to insert package inserts
- 1.1.3 Machines for depalletizing, de-stacking, sorting, aligning and feeding of empty packagings and packaging components
- 1.1.4 Machines for cleaning or sterilising and drying packagings
 - 1.1.4.1 Air cleaning machines
 - 1.1.4.2 Cleaning machines
 - 1.1.4.3 Pasteurizing and sterilizing machines
- 1.1.5 Machines for the assembly of packaging and packaging components (e.g. dosing pumps, syringes)
- 1.1.6 Unpacking, emptying and depalletizing machines
- 1.1.7 Dosing and portioning machines
 - 1.1.7.1 Counting devices
 - 1.1.7.2 Cutting machines
 - 1.1.7.3 Gravimetric dosing
 - 1.1.7.4 Piece dosing device
 - 1.1.7.5 Volumetric dosing
- 1.1.8 Mixer and Carbonizer
- 1.1.9 Cleaning machines for products (e.g. fruit, salad)
- 1.1.10 Product sorting and/or feeding machines

1.2 Filling and packaging

- 1.2.1 Form, fill and seal machines (FFS)
 - 1.2.1.1 Horizontal form, fill and seal machines (H-FFS)
 - 1.2.1.2 Vertical form, fill and seal machines (V-FFS)
- 1.2.2 Form, fill and seal machines (FFS) for
 - 1.2.2.1 Blister
 - 1.2.2.2 Bottles
 - 1.2.2.3 Cups
 - 1.2.2.4 Sacks
 - 1.2.2.5 Trays and similar containers
- 1.2.3 Cartoners
 - 1.2.3.1 Horizontal cartoners
 - 1.2.3.2 Top load cartoners
 - 1.2.3.3 Vertical cartoners
- 1.2.4 Fill and seal machines (FS) for
 - 1.2.4.1 Ampoules, small bottles, vials
 - 1.2.4.2 Bags
 - 1.2.4.3 Barrels, kegs and similar containers
 - 1.2.4.4 Big-bags (FIBCs)
 - 1.2.4.5 Blister
 - 1.2.4.6 Bottles
 - 1.2.4.7 Buckets
 - 1.2.4.8 Canisters
 - 1.2.4.9 Cans
 - 1.2.4.10 Cardboard boxes
 - 1.2.4.11 Cartridges
 - 1.2.4.12 Cases
 - 1.2.4.13 Cups
 - 1.2.4.14 Drums
 - 1.2.4.15 Jars
 - 1.2.4.16 Packaging jars
 - 1.2.4.17 Nets

- 1.2.4.18 Sacks
- 1.2.4.19 Trays and similar containers
- 1.2.4.20 Tubes
- 1.2.5 Filling machines for
 - 1.2.5.1 Aerosol cans
 - 1.2.5.2 Ampoules, small bottles, vials
 - 1.2.5.3 Bags
 - 1.2.5.4 Barrels, kegs and similar containers
 - 1.2.5.5 Big-Bags
 - 1.2.5.6 Bottles
 - 1.2.5.7 Boxes
 - 1.2.5.8 Buckets
 - 1.2.5.9 Cases
 - 1.2.5.10 Cartons, Folding boxes
 - 1.2.5.11 Cans
 - 1.2.5.12 Cups
 - 1.2.5.13 Canisters
 - 1.2.5.14 Large containers
 - 1.2.5.15 Nets
 - 1.2.5.16 Packaging jars
 - 1.2.5.17 Sacks
 - 1.2.5.18 Trays and similar containers
 - 1.2.5.19 Tubes

- 1.2.6 Closing machines for
 - 1.2.6.1 Ampoules, small bottles, vials
 - 1.2.6.2 Bags
 - 1.2.6.3 Barrels, kegs and similar containers
 - 1.2.6.4 Bottles
 - 1.2.6.5 Buckets
 - 1.2.6.6 Cans
 - 1.2.6.7 Cartons and folding boxes
 - 1.2.6.8 Cases
 - 1.2.6.9 Cups
 - 1.2.6.10 Packaging jars
 - 1.2.6.11 Sacks
 - 1.2.6.12 Trays and similar containers
 - 1.2.6.13 Tubes

1.2.7 Wrapping machines

1.2.8 Shrink film machines

1.2.9 Shrinking devices

- 1.2.9.1 Drying tunnels
- 1.2.9.2 Shrink frames
- 1.2.9.3 Shrink ovens
- 1.2.9.4 Shrink tanks
- 1.2.9.5 Shrink tunnels

1.2.10 Packaging machines with special equipment for hygienic packaging

- 1.2.10.1 Aseptic filling machines
- 1.2.10.2 CAP (controlled atmosphere packaging)
- 1.2.10.3 Disinfection of packaging
- 1.2.10.4 MAP (modified atmosphere packaging)
- 1.2.10.5 Sterile packaging
- 1.2.10.6 Vacuum

1.3 Final packaging and material flow

1.3.1 Filling machines for group and transport packaging

1.3.2 Bundling machines

- 1.3.2.1 Banderoling machines
- 1.3.2.2 Binding machines
- 1.3.2.3 Strapping machines

- 1.3.3 Picking systems
- 1.3.4 Palletizing machines
- 1.3.5 Machines for securing pallets and other loading units
 - 1.3.5.1 Compression strapping machines for pallets
 - 1.3.5.2 Shrink hood machines
 - 1.3.5.3 Strapping and banding machines
 - 1.3.5.4 Stretch-film wrapping machines
 - 1.3.5.5 Stretch hood machines
- 1.4 Inspection and control**
 - 1.4.1 Checkweighers
 - 1.4.2 Leakage test systems/devices
 - 1.4.3 Metal detectors
 - 1.4.4 Optical inspection systems
 - 1.4.5 X-ray inspection systems/devices
- 1.5 Additional machines and devices in the packaging process**
 - 1.5.1 Applicators for adding or sealing components to packagings (e.g. tear tapes, purging spouts or carrying handles)
 - 1.5.2 Capping machines
 - 1.5.3 Equipment for adding product supplements and product information to packs
 - 1.5.4 Foiling machines
 - 1.5.5 Gravimetric filling and price labelling machines
 - 1.5.6 Machines for automatically adding padding material and edge/corner protection
 - 1.5.7 Machines or equipment for conveying, storing or arranging packages or packaging components during the packaging process (without floor trucks)
 - 1.5.8 Machines and equipment for subsequently pasteurizing and sterilizing packaged products
 - 1.5.9 Punching devices
 - 1.5.10 Splicer for packaging material
 - 1.5.11 Laser perforation systems
 - 1.5.12 Machines for recovering products
 - 1.5.13 Robotic systems
 - 1.5.13.1 Articulated robots
 - 1.5.13.2 Gantry robots
 - 1.5.13.3 Pick & Place robots
- 1.6 Complete packaging lines**
 - 1.6.1 Primary packaging
 - 1.6.2 Secondary packaging
- 1.7 Tools and equipment to assist manual packaging**
 - 1.7.1 Adhesive-tape applicators
 - 1.7.2 Equipment for lifting heavy products
 - 1.7.3 Nail and staple guns
 - 1.7.4 Price marking equipment

- 1.7.5 Rollers for stretch film
- 1.7.6 Shrink guns

2**Packaging materials, packaging means and auxiliary packaging means****2.1 Packaging materials****2.1.1 Glass****2.1.2 Plastic from fossil raw materials**

- 2.1.2.1 Polyamide (PA)
- 2.1.2.2 Polybutylene adipate terephthalate (PBAT)
- 2.1.2.3 Polybutylensuccinat (PBS)
- 2.1.2.4 Polycaprolactam (PCL)
- 2.1.2.5 Polycarbonate (PC)
- 2.1.2.6 Polyethylene (PE, HDPE, LDPE, LLDPE)
- 2.1.2.7 Polyethylene terephthalate (PET)
- 2.1.2.8 Polypropylene (PP, BOPP, OPP, CPP)
- 2.1.2.9 Polystyrene (PS, EPS)
- 2.1.2.10 Polyvinyl chloride (PVC)

2.1.3 Plastic from renewable raw materials

- 2.1.3.1 Bio-polyamide (PA)
- 2.1.3.2 Bio-polyethylene (PE, HDPE, LDPE, LLDPE)
- 2.1.3.3 Bio-polyethylene terephthalate (PET)
- 2.1.3.4 Bio-polypropylene (PP, BOPP, OPP, CPP)
- 2.1.3.5 Cellophane
- 2.1.3.6 Polyactid Acid (PLA)
- 2.1.3.7 Polybutylene adipate terephthalate (PBAT)
- 2.1.3.8 Polybutylensuccinat (PBS)
- 2.1.3.9 Polyethylene furanoate (PEF)
- 2.1.3.10 Polyhydroxyalkanoates (PHA)
- 2.1.3.11 Polyhydroxybutyrates (PHB)
- 2.1.3.12 Thermoplastic starch (TPS)

2.1.4 Plastic from recyclates

- 2.1.4.1 Polyamide (rPA)
- 2.1.4.2 Polyethylene (rPE)
- 2.1.4.3 Polyethylene terephthalate (rPET)
- 2.1.4.4 Polypropylene (rPP)
- 2.1.4.5 Polystyrene (rEPS)
- 2.1.4.6 Polyactid Acid (rPLA)

2.1.5 Metal

- 2.1.5.1 Aluminium
- 2.1.5.2 Steel
- 2.1.5.3 Tinplate

2.1.6 Paper, carton and cardboard

- 2.1.6.1 Carton
- 2.1.6.2 Corrugated board
- 2.1.6.3 Paper
- 2.1.6.4 Paper pulp
- 2.1.6.5 Solid board

2.1.7 Textiles, non-woven material and woven material**2.1.8 Composite packaging materials based on**

- 2.1.8.1 Aluminium
- 2.1.8.2 Cartonboard
- 2.1.8.3 Paper
- 2.1.8.4 Plastics

2.1.9 Alternative packaging materials

- 2.1.9.1 Chitin

- 2.1.9.2 Eggshells
- 2.1.9.3 Mycelium (fungal filaments)
- 2.1.9.4 Plant fibers (grass, hemp, flax, straw, banana, leaves, bamboo, silphia, bagasse, etc.)
- 2.1.9.5 Seaweed

2.2 Packagings made from

2.2.1 Aluminium

- 2.2.1.1 Aerosol cans
- 2.2.1.2 Beverage cans
- 2.2.1.3 Blister packagings
- 2.2.1.4 Bottles
- 2.2.1.5 Cans
- 2.2.1.6 Capsules
- 2.2.1.7 Cartridges
- 2.2.1.8 Containers for storage and transport
- 2.2.1.9 Flexible tubes
- 2.2.1.10 Foils
- 2.2.1.11 Screw caps / Closures
- 2.2.1.12 Semi-rigid container/trays
- 2.2.1.13 Small cases (etuis)
- 2.2.1.14 Small tubes
- 2.2.1.15 Trays
- 2.2.1.16 Tubular jackets

2.2.2 Carton

- 2.2.2.1 Bag-in-box packagings
- 2.2.2.2 Baskets
- 2.2.2.3 Blister packagings
- 2.2.2.4 Boxes (folded boxes, rigid boxes, cut-outs)
- 2.2.2.5 Buckets
- 2.2.2.6 Cans
- 2.2.2.7 Cases and similar containers
- 2.2.2.8 Carrier-bags and shopping bags
- 2.2.2.9 Crates
- 2.2.2.10 Cups
- 2.2.2.11 Display packagings
- 2.2.2.12 Rigid tubes

2.2.3 Composite material

- 2.2.3.1 Bags
- 2.2.3.2 Blister packagings
- 2.2.3.3 Cans
- 2.2.3.4 Carrier-bags and shopping bags
- 2.2.3.5 Cups
- 2.2.3.6 Foils
- 2.2.3.7 Skin packagings
- 2.2.3.8 Boxes (folded boxes, rigid boxes)
- 2.2.3.9 Tablet blisters
- 2.2.3.10 Tubes

2.2.4 Corrugated board

- 2.2.4.1 Bag-in-box packagings
- 2.2.4.2 Boxes (folded boxes, rigid boxes, cut-outs)
- 2.2.4.3 Cases and similar containers
- 2.2.4.4 Containers for storage and transport
- 2.2.4.5 Crates
- 2.2.4.6 Display packagings

2.2.5 Fibre pulp material

- 2.2.5.1 Trays
- 2.2.5.2 Trays (deep drawn or pressed)

2.2.6 Glass

- 2.2.6.1 Ampoules
- 2.2.6.2 Bottles

- 2.2.6.3 Cartridges & syringes
- 2.2.6.4 Packaging glass (no bottles)
- 2.2.6.5 Preserving jars
- 2.2.6.6 Tablet tubes

2.2.7 Paper

- 2.2.7.1 Bags
- 2.2.7.2 Baskets
- 2.2.7.3 Blister packagings
- 2.2.7.4 Bottles
- 2.2.7.5 Buckets
- 2.2.7.6 Cans
- 2.2.7.7 Capsules
- 2.2.7.8 Carrier-bags and shopping bags
- 2.2.7.9 Cups
- 2.2.7.10 Drums
- 2.2.7.11 Gift wrap paper
- 2.2.7.12 Labels
- 2.2.7.13 Mailing tubes
- 2.2.7.14 Sacks
- 2.2.7.15 Small cases (etuis)
- 2.2.7.16 Trays
- 2.2.7.17 Trays (deep drawn or pressed)
- 2.2.7.18 Tubular jackets

2.2.8 Plastic from fossil/renewable raw materials

- 2.2.8.1 Ampoules
- 2.2.8.2 Bag-in-box packagings
- 2.2.8.3 Bags
- 2.2.8.4 Bags for boiling and cooking
- 2.2.8.5 Barrels (with screw cap or with lid)
- 2.2.8.6 Baskets
- 2.2.8.7 Blister packagings
- 2.2.8.8 Bottles
- 2.2.8.9 Boxes (folded boxes, rigid boxes)
- 2.2.8.10 Buckets
- 2.2.8.11 Canisters
- 2.2.8.12 Cans
- 2.2.8.13 Capsules
- 2.2.8.14 Carrier-bags and shopping bags
- 2.2.8.15 Cartridges
- 2.2.8.16 Cases and similar containers
- 2.2.8.17 Containers for storage and transport
- 2.2.8.18 Containers with lid
- 2.2.8.19 Crates
- 2.2.8.20 Cups
- 2.2.8.21 Display packagings
- 2.2.8.22 Drums
- 2.2.8.23 Dunnage Trays
- 2.2.8.24 FIBC
- 2.2.8.25 Foils
- 2.2.8.26 Hobbocks
- 2.2.8.27 IBC
- 2.2.8.28 Insulating packaging
- 2.2.8.29 Jars
- 2.2.8.30 Mailing tubes
- 2.2.8.31 Nets
- 2.2.8.32 Sacks
- 2.2.8.33 Shrink films
- 2.2.8.34 Skin films
- 2.2.8.35 Small cases (etuis)
- 2.2.8.36 Stretch film
- 2.2.8.37 Tablet tubes
- 2.2.8.38 Trays
- 2.2.8.39 Trays (deep drawn or pressed)

- 2.2.8.40 Tubes
- 2.2.8.41 Tubular jackets
- 2.2.9 Plastic recycle**
- 2.2.9.1 Bags
- 2.2.9.2 Barrels (with screw cap or with lid)
- 2.2.9.3 Blister packaging
- 2.2.9.4 Bottles
- 2.2.9.5 Buckets
- 2.2.9.6 Cartridges
- 2.2.9.7 Cups
- 2.2.9.8 Dunnage Trays
- 2.2.9.9 FIBC
- 2.2.9.10 Foils
- 2.2.9.11 IBC
- 2.2.9.12 Jars
- 2.2.9.13 Nets
- 2.2.9.14 Sacks
- 2.2.9.15 Shipping bags
- 2.2.9.16 Small cases (etuis)
- 2.2.9.17 Trays
- 2.2.9.18 Tubular jackets
- 2.2.10 Solid fibreboard**
- 2.2.10.1 Bag-in-box packagings
- 2.2.10.2 Baskets
- 2.2.10.3 Blister packagings
- 2.2.10.4 Bottles
- 2.2.10.5 Boxes (folded boxes, rigid boxes, cut-outs)
- 2.2.10.6 Buckets
- 2.2.10.7 Canisters
- 2.2.10.8 Cans
- 2.2.10.9 Cases and similar containers
- 2.2.10.10 Containers for storage and transport
- 2.2.10.11 Crates
- 2.2.10.12 Display packagings
- 2.2.10.13 Drums
- 2.2.10.14 Mailing tubes
- 2.2.10.15 Tubular jackets
- 2.2.11 Steel**
- 2.2.11.1 Barrels (with screw cap or with lid)
- 2.2.12 Tinplate**
- 2.2.12.1 Bottles
- 2.2.12.2 Buckets
- 2.2.12.3 Canisters
- 2.2.12.4 Cans
- 2.2.12.5 Cases and similar containers
- 2.2.12.6 CD / DVD packs
- 2.2.12.7 Containers for storage and transport
- 2.2.12.8 Containers with lid
- 2.2.12.9 Hobbocks
- 2.2.12.10 Small cases (etuis)
- 2.2.13 Wood**
- 2.2.13.1 Barrels (with screw cap or with lid)
- 2.2.13.2 Baskets
- 2.2.13.3 Boxes
- 2.2.13.4 Cans
- 2.2.13.5 Containers for storage and transport
- 2.2.13.6 Cases and similar containers
- 2.2.13.7 Containers with lid
- 2.2.13.8 Crates
- 2.2.13.9 Trays

- 2.2.14 Woven material**
- 2.2.14.1 Carrier-bags and shopping bags
- 2.2.14.2 Containers for storage and transport
- 2.2.14.3 Nets
- 2.2.14.4 Sacks
- 2.2.15 Other material**
- 2.2.15.1 Gelatine capsules
- 2.2.16 Alternative packaging materials**
- 2.2.16.1 Bags
- 2.2.16.2 Bottles
- 2.2.16.3 Boxes
- 2.2.16.4 Cans
- 2.2.16.5 Cups
- 2.2.16.6 Foils
- 2.2.16.7 Insulating packaging
- 2.2.16.8 Nets
- 2.2.16.9 Protection packaging
- 2.2.16.10 Sacks
- 2.2.16.11 Trays
- 2.3 Auxiliary packaging means**
- 2.3.1 Bottle sleeves**
- 2.3.2 Box pallets**
- 2.3.2.1 Metal
- 2.3.2.2 Plastic
- 2.3.3 Carrier handles**
- 2.3.4 Closing/sealing accessories**
- 2.3.4.1 Adhesive tapes
- 2.3.4.2 Adhesives
- 2.3.4.3 Closing/sealing accessories mechanical (e.g. staples, nails)
- 2.3.4.4 Packaging straps
- 2.3.4.4.1 Composite material
- 2.3.4.4.2 Metal
- 2.3.4.4.3 Paper
- 2.3.4.4.4 Plastic
- 2.3.4.4.5 Textile
- 2.3.4.5 Packaging threads (string, twine, cord)
- 2.3.4.5.1 Plastic
- 2.3.4.5.2 Textiles
- 2.3.5 Closures, closing means**
- 2.3.5.1 Bag closures
- 2.3.5.2 Bayonet closures
- 2.3.5.3 Cap closures
- 2.3.5.4 Caps for aerosol cans
- 2.3.5.5 Capsule closures
- 2.3.5.6 Child-proof closures
- 2.3.5.7 Child-proof twist off tops
- 2.3.5.8 Clips
- 2.3.5.9 Corks
- 2.3.5.10 Crimped closures
- 2.3.5.11 Crown corks
- 2.3.5.12 Dropper closures
- 2.3.5.13 Flacon closures
- 2.3.5.14 Glass closures
- 2.3.5.15 Grooved lids
- 2.3.5.16 Lead seals
- 2.3.5.17 Lever closures
- 2.3.5.18 Lids
- 2.3.5.19 Peel-off foils / films

- 2.3.5.20 Portion controlling caps
- 2.3.5.21 Pouring spout closures
- 2.3.5.22 Press-in closures
- 2.3.5.23 Pump seals, manual
- 2.3.5.24 Roll-on closures
- 2.3.5.25 Safety closures
- 2.3.5.26 Screw lids
- 2.3.5.27 Screw lids
- 2.3.5.28 Seals, protecting cap
- 2.3.5.29 Sliding closures
- 2.3.5.30 Snap lids
- 2.3.5.31 Spray seals
- 2.3.5.32 Stoppers
- 2.3.5.33 Tear-off closures
- 2.3.5.34 Tear-open strips
- 2.3.5.35 Toggle-type closures
- 2.3.5.36 Tube caps
- 2.3.5.37 Valve seals
- 2.3.5.38 Veaded capsule closures
- 2.3.6 Corrosion protecting agents**
- 2.3.7 Decorating material**
- 2.3.8 Desiccation bags**
- 2.3.9 Dosing inserts**
- 2.3.10 Edge protection**
- 2.3.11 Labels**
 - 2.3.11.1 Heat-adhesive labels
 - 2.3.11.2 RFID-labels
 - 2.3.11.3 Self-adhesive labels
 - 2.3.11.4 Shrink sleeves
 - 2.3.11.5 Wet-adhesive labels
- 2.3.12 Leaflets (customer information)**
- 2.3.13 Marking devices**
- 2.3.14 Nozzles**
- 2.3.15 Packaging inserts**
- 2.3.16 Padding material**
 - 2.3.16.1 Air bubble film
 - 2.3.16.2 Air cushion pillow
 - 2.3.16.3 Corner edge protection
 - 2.3.16.4 foam material/foam plastic
 - 2.3.16.5 Packaging chips
- 2.3.17 Pallet frames**
- 2.3.18 Pallet stabilizing accessories**
- 2.3.19 Pallets**
 - 2.3.19.1 Corrugated board
 - 2.3.19.2 Metal
 - 2.3.19.3 Plastic
 - 2.3.19.4 Wood
 - 2.3.19.5 Paper pulp
- 2.3.20 Protective gases**
- 2.3.21 Sealing materials**
- 2.3.22 Valves**

3**Machines and equipment for the production of confectionery (Chocolate confectionery, sugar confectionery, gum)****3.1****Complete lines for the production of confectionery (Chocolate confectionery, sugar confectionery, gum)**

- 3.1.1 Processing of almonds, nuts and others
- 3.1.2 Production of caramel
- 3.1.3 Processing of cocoa
- 3.1.4 Production of candy and cereal bars
- 3.1.5 Production of chewy candy masses
- 3.1.6 Production of chewing gum
- 3.1.7 Production of chocolate
- 3.1.8 Production of cocoa butter
- 3.1.9 Production of cocoa liquor
- 3.1.10 Production of cocoa powder
- 3.1.11 Production of craknel
- 3.1.12 Production of foam sugar products
- 3.1.13 Production of fondant masses
- 3.1.14 Production of gum and jelly products
- 3.1.15 Production of hard and soft caramels
- 3.1.16 Production of ice cream
- 3.1.17 Production of liquorice confectionery
- 3.1.18 Machines and equipment for dragee and tablet production (confectionery)

3.2**Single machines /equipment for the production of confectionery (Chocolate confectionery, sugar confectionery, gum)**

- 3.2.1 Aerating equipment
- 3.2.2 Beating machines
- 3.2.3 Blending and granulating equipment
- 3.2.4 Breaking drums
- 3.2.5 Caramelisers
- 3.2.6 Cleaning machines for cocoa beans, nuts, almonds and others
- 3.2.7 Cluster equipment
- 3.2.8 Coating machines
- 3.2.9 Coating systems
- 3.2.10 Cocoa bean crushers
- 3.2.11 Cocoa mass and cocoa butter compression coolers
- 3.2.12 Cocoa powder equipment
- 3.2.13 Cocoa presses
- 3.2.14 Compacting and briquetting presses
- 3.2.15 Conches
- 3.2.16 Conditioning machines
- 3.2.17 Cooking equipment
- 3.2.18 Crushing machines
- 3.2.19 Cutting machines
- 3.2.20 Decorating equipment
- 3.2.21 Deep frying equipment
- 3.2.22 Depositing equipment/depositors
- 3.2.23 Depositing machines
- 3.2.24 Deshelling equipment/machines for nuts, almonds and others
- 3.2.25 De-Starching equipment
- 3.2.26 De-tempering equipment
- 3.2.27 Dosing and mixing equipment
- 3.2.28 Drying equipment
- 3.2.29 Enrobing equipment
- 3.2.30 Extruders
- 3.2.31 Filling systems
- 3.2.32 Finishing machines
- 3.2.33 Flaking rollers

- 3.2.34 Forming machines
- 3.2.35 Cutting machines
- 3.2.36 Freeze dryer
- 3.2.37 Freezing systems/Freezers
- 3.2.38 Granulating machines
- 3.2.39 Dryers
- 3.2.40 Hollow article moulding equipment
- 3.2.41 Kneader
- 3.2.42 Marzipan paste production machines
- 3.2.43 Melting equipment
- 3.2.44 Mills
- 3.2.45 Mixers
- 3.2.46 Mixing and kneading equipment
- 3.2.47 Mogul equipment
- 3.2.48 Moulding equipment
- 3.2.49 Moulding rollers, engraved
- 3.2.50 Moulds for solid and hollow article moulding equipment
- 3.2.51 Nougat cream production machines
- 3.2.52 Oiling equipment
- 3.2.53 Panning machines
- 3.2.54 Praline forming machines
- 3.2.55 Chocolate forming equipment
- 3.2.56 Bar forming equipment
- 3.2.57 Praline masses manufacturing machines
- 3.2.58 Pulling machines
- 3.2.59 Refining machines
- 3.2.60 Rework converting machines
- 3.2.61 Roasting and cooling equipment
- 3.2.62 Roasting machines
- 3.2.63 Rolling and scoring lines (sticks and pellets)
- 3.2.64 Rolling machines
- 3.2.65 Rope forming and sizing machines
- 3.2.66 Sheeters
- 3.2.67 Sieving machines, equipment
- 3.2.68 Spraying equipment
- 3.2.69 Spreading machines
- 3.2.70 Sprinkling equipment
- 3.2.71 Starch equipment
- 3.2.72 Sterilizing equipment for cocoa, nuts, almonds and others
- 3.2.73 Sugar sanding equipment
- 3.2.74 Tablet presses (confectionery)
- 3.2.75 Tempering equipment
- 3.2.76 Vermicelli and non-pareille equipment

3.3 Operating and auxiliary equipment for the production of confectionery (Chocolate confectionery, sugar confectionery, gum)

- 3.3.1 Cleaning and disinfection systems (CIP and HACCP)
- 3.3.2 Cleaning machines
- 3.3.3 Containers for charging/discharging machines
- 3.3.4 Cooling and air conditioning technology
- 3.3.5 Laboratory equipment
- 3.3.6 Lifting and tipping devices for containers
- 3.3.7 Magnetic separators
- 3.3.8 Metal detectors
- 3.3.9 Nozzle systems
- 3.3.10 Pumps
- 3.3.11 Pumps and valve systems
- 3.3.12 Sifting and classifying machines
- 3.3.13 Sorting equipment
- 3.3.14 Vacuum technology
- 3.3.15 Weighing equipment
- 3.3.16 Heat exchangers
- 3.3.17 Heat tunnels

4

Machines and equipment for the production of bakery products, snacks and cereals (including biscuits, waffles, etc.)

4.1

Complete lines for manufacturing bakery products, snacks and cereals (including biscuits, waffles, etc.)

- 4.1.1 Production of bread
- 4.1.2 Production of bread rolls
- 4.1.3 Production of cereals
- 4.1.4 Production of crackers
- 4.1.5 Production of crisp bread
- 4.1.6 Production of croissants
- 4.1.7 Production of deep fried pastries
- 4.1.8 Production of extruded flat bread
- 4.1.9 Production of extruded snacks
- 4.1.10 Production of flat breads and pizza
- 4.1.11 Production of lye dough pastries
- 4.1.12 Production of pastry products
- 4.1.13 Production of pies
- 4.1.14 Production of rusk
- 4.1.15 Production of sheet cakes
- 4.1.16 Production of special bread (baguette, chiabatta, focaccia)
- 4.1.17 Production of spritz biscuits
- 4.1.18 Production of sticks
- 4.1.19 Production of thin dough (filo dough) products
- 4.1.20 Production of toast
- 4.1.21 Production of wafer (flat wafers, hollow wafers, wafer cones, wafer cup)

4.2

Single machines /equipment for the production of bakery products, snacks and cereals (including biscuits, waffles, etc.)

- 4.2.1 Biscuit and wafer filling equipment
- 4.2.2 Bread roll forming equipment
- 4.2.3 Coating machines
- 4.2.4 Cooking extruders
- 4.2.5 Cooling equipment
- 4.2.6 Ice cream machines (chip ice, flake ice)
- 4.2.7 Cutting machines
- 4.2.8 Deep frying equipment
- 4.2.9 Depositing machines
- 4.2.10 Dosing and mixing equipment
- 4.2.11 Dough band formers
- 4.2.12 Dough dividing machines
- 4.2.13 Dough rollers
- 4.2.14 Drying equipment
- 4.2.15 Enrobing equipment
- 4.2.16 Extruders
- 4.2.17 Filling systems
- 4.2.18 Flaking rollers
- 4.2.19 Forming machines
- 4.2.20 Cutting machines
- 4.2.21 Guillotines
- 4.2.22 Dryers
- 4.2.23 Hollow wafer stick equipment
- 4.2.24 Industrial proofing systems
- 4.2.25 Kneader
- 4.2.26 Laminators
- 4.2.27 Mixers
- 4.2.28 Mixing and kneading equipment
- 4.2.29 Moulding machines for pastries
- 4.2.30 Moulding rollers, engraved
- 4.2.31 Multi-deck baking ovens

- 4.2.32 Puffing equipment
- 4.2.33 Punching and cutting machines for raw pastries
- 4.2.34 Refining machines
- 4.2.35 Sheeters
- 4.2.36 Spraying equipment
- 4.2.37 Spreading machines
- 4.2.38 Steam cooking equipment
- 4.2.39 Tunnel ovens
- 4.2.40 Twisting machines
- 4.2.41 Wafer baking ovens
- 4.2.42 Wafer cream production equipment
- 4.2.43 Wire-cut and roll-out biscuit machines

4.3 Operating and auxiliary equipment for the production of bakery products, snacks and cereals (including biscuits, waffles, etc.)

- 4.3.1 Cleaning and disinfection systems (CIP and HACCP)
- 4.3.2 Cleaning machines
- 4.3.3 Containers for charging/discharging machines
- 4.3.4 Cooling and air conditioning technology
- 4.3.5 Laboratory equipment
- 4.3.6 Lifting and tipping devices for containers
- 4.3.7 Magnetic separators
- 4.3.8 Metal detectors
- 4.3.9 Nozzle systems
- 4.3.10 Pumps
- 4.3.11 Pumps and valve systems
- 4.3.12 Sifting and classifying machines
- 4.3.13 Sorting equipment
- 4.3.14 Vacuum technology
- 4.3.15 Weighing equipment
- 4.3.16 Heat exchangers
- 4.3.17 Heat tunnels

5

Machines and equipment for the processing of other food products (e.g. coffee processing, production of ice cream, etc.)

5.1 Complete lines for the processing of other food products (no confectionery and bakery machines)

5.2 Single machines /equipment for the processing of other food products (no confectionery and bakery machines)

5.3 Operating and auxiliary equipment for the processing of other food products (no confectionery and bakery machines)

6

Machines and equipment for the production of pharmaceuticals and cosmetics

6.1 Complete lines for the production of pharmaceutical and cosmetic products

- 6.1.1 Complete lines for solida production
- 6.1.2 Complete lines for liquida production
- 6.1.3 Complete lines for semi-solida production
- 6.1.4 Complete lines for suppository production

6.2 Single machines /equipment for the production of pharmaceutical and cosmetic products

- 6.2.1 Capsule cleaning and polishing machines
- 6.2.2 Classifying machines

- 6.2.3 Coating systems
- 6.2.4 Compacting and briquetting presses
- 6.2.5 Containment solutions
- 6.2.6 Containter systems
- 6.2.7 Crystallization equipment
- 6.2.8 Crusher
- 6.2.9 Dryers
- 6.2.10 Extracting equipment
- 6.2.11 Fermenter
- 6.2.12 Fluid bed systems
- 6.2.13 Granulating machines
- 6.2.14 Grinding systems
- 6.2.15 Homogenizers
- 6.2.16 Inspection machines
- 6.2.17 Isolators
- 6.2.18 Lyophilizer
- 6.2.19 Machines for the production of oral dissolvable films (ODF)
- 6.2.20 Machines for the production of transdermal adhesive patches
- 6.2.21 Mixers
- 6.2.22 Pelletizing equipment
- 6.2.23 Pharma extruders
- 6.2.24 Sifting machines
- 6.2.25 Spouted bed units
- 6.2.26 Spray encapsulation equipment
- 6.2.27 Tablet presses
- 6.2.28 Web-Converting equipment

6.3 Operating and auxiliary equipment for the production of pharmaceuticals and cosmetics

- 6.3.1 Analyzing and testing devices
- 6.3.2 Clean room engineering
- 6.3.3 Coating pans
- 6.3.4 Containers
- 6.3.5 Containers for charging/discharging machines
- 6.3.6 Deduster
- 6.3.7 Feeding systems
- 6.3.8 Filters, pumps, valves
- 6.3.9 Filtration units
- 6.3.10 Generation systems of purified/highly purified water
- 6.3.11 Heat exchangers
- 6.3.12 Laboratory equipment
- 6.3.13 Laboratory facilities
- 6.3.14 Lifting and tipping devices for containers
- 6.3.15 Pure steam generator
- 6.3.16 Metal detectors
- 6.3.17 Sorting equipment
- 6.3.18 Spraying equipment
- 6.3.19 Sterilization units
- 6.3.20 Stirrers
- 6.3.21 Stirring vessels (heated)
- 6.3.22 Tablet deburring devices
- 6.3.23 Tanks
- 6.3.24 Temperature devices
- 6.3.25 Washing equipment for the pharmaceutical industry
- 6.3.26 Weighing equipment
- 6.3.27 WIP/CIP cleaning

7**Packaging production, Converting and packaging printing****7.1****Machines for the production of packaging and packaging components**

- 7.1.1 Adhesive tape, adhesive strips
- 7.1.2 Ampoules, vials and similar containers
- 7.1.3 Bags
- 7.1.4 Barrels and drums
- 7.1.5 Big-bags
- 7.1.6 Bottles, jerry cans and similar containers
- 7.1.7 Boxes, cases and similar containers
- 7.1.8 Buckets
- 7.1.9 Cans
- 7.1.10 Cardboard boxes
- 7.1.11 Cups
- 7.1.12 Flexible packagings
- 7.1.13 Labels
- 7.1.14 Mailing tubes
- 7.1.15 Metal containers
- 7.1.16 Packaging jars
- 7.1.17 Padding materials and inserts
- 7.1.18 Pallets
- 7.1.19 Sacks
- 7.1.20 Seals and other packaging components
- 7.1.21 Tape, twine, wires
- 7.1.22 Trays and similar containers
- 7.1.23 Tubes
- 7.1.24 Valves

7.2**Machines and equipment for the finishing of packaging media****7.3****Machines and equipment for the printing of packaging media****8****Labelling and marking****8.1****Labelling machines**

- 8.1.1 Hot glue labelling machines
- 8.1.2 Hot melt glue labelling machines
- 8.1.3 Hot seal labelling machines
- 8.1.4 Labelling machines for tag labels
- 8.1.5 Pressure sensitive labelling machines
- 8.1.6 Sleeve labelling machines
- 8.1.7 Wet glue labelling machines

8.2**Digital direct printing devices****8.3****Coding devices****8.4****Embossing systems****8.5****Printer (Thermo, Inkjet, Matrix)****8.6****Laser coding systems****9****Storage, logistics and transport equipment****9.1****Conveying and storage systems****9.2****Feeding systems****9.3****Product and material handling****9.4****Silos and accessories****9.5****Stacking devices****9.6****Storage systems****9.7****Take-off systems****9.8****Tanks (heated)****9.9****Transport trolley****9.10****Transport and handling systems****10****Services****10.1****Business support**

- 10.1.1 Assembly, maintenance and repair services
- 10.1.2 Consulting and project planning of track & trace solutions
- 10.1.3 Contract packaging and fulfilment
- 10.1.4 Leasing / rental services
- 10.1.5 Operating (Co-Packing)
- 10.1.6 Packaging consulting
- 10.1.7 Packaging design
- 10.1.8 Packaging waste disposal and recycling
- 10.1.9 Project planning and implementation of packaging lines
- 10.1.10 Recycling operators
- 10.1.11 Remote diagnosis / teleservice
- 10.1.12 Retrofit
- 10.1.13 Software solutions for the manufacturing and packaging process
- 10.1.14 Trainings

10.2**Trade press**

- 10.2.1 Online media
- 10.2.2 Trade books
- 10.2.3 Trade magazines

10.3**Research and teachings**

- 10.3.1 Institutes
- 10.3.2 Universities and Universities of applied sciences

10.4**Associations and branch organizations**