

Packaging machines and devices

- **Machines for the production of packaging and packaging components for packaging, preparing and feeding to the packaging machine**
- **Machines for the production of packaging and packaging components**
 - 1.1.1.1 Adhesive tape, adhesive strips
 - 1.1.1.2 Ampoules, vials and similar containers
 - 1.1.1.3 Bags
 - 1.1.1.4 Barrels and drums
 - 1.1.1.5 Big-bags
 - 1.1.1.6 Bottles, jerry cans and similar containers
 - 1.1.1.7 Boxes, cases and similar containers
 - 1.1.1.8 Buckets
 - 1.1.1.9 Cans
 - 1.1.1.10 Cardboard boxes
 - 1.1.1.11 Cups
 - 1.1.1.12 Flexible packagings
 - 1.1.1.13 Labels
 - 1.1.1.14 Mailing tubes
 - 1.1.1.15 Metal containers
 - 1.1.1.16 Packaging jars
 - 1.1.1.17 Padding materials and inserts
 - 1.1.1.18 Pallets
 - 1.1.1.19 Sacks
 - 1.1.1.20 Seals and other packaging components
 - 1.1.1.21 Tape, twine, wires
 - 1.1.1.22 Trays and similar containers
 - 1.1.1.23 Tubes
 - 1.1.1.24 Valves
- 1.1.2 **Erecting machines for cartons and cases**
- 1.1.3 **Machines to insert dividers**
- 1.1.4 **Machines for depalletizing, de-stacking, sorting, aligning and feeding of empty packagings and packaging components**
- **Machines for cleaning or sterilising and drying packagings**
 - 1.1.5.1 Air cleaning machines
 - 1.1.5.2 Cleaning machines
 - 1.1.5.3 Pasteurizing and sterilizing machines
- 1.1.6 **Machines for printing prefabricated packaging before packaging**
- 1.1.7 **Machines for the assembly of packaging and packaging components (e.g. dosing pumps, syringes)**
- **Machines for preparing and feeding of products**
- 1.2.1 **Machines for processing and refining of products**
- 1.2.2 **Unpacking, emptying and depalletizing machines**
- **Dosing and portion controlling machines**
 - 1.2.3.1 Gravimetric dosing
 - 1.2.3.2 Piece dosing device
 - 1.2.3.3 Volumetric dosing
- 1.2.4 **Mixer and Carbonizer**
- 1.2.5 **Cleaning machines for products (e.g. fruit, salad)**
- 1.2.6 **Picking systems**
- **Product moulding machines for**
 - 1.2.7.1 Bulk and powdered products
 - 1.2.7.2 Lumpy products
 - 1.2.7.3 Viscous products
- 1.2.8 **Product sorting and/or feeding machines**
- **Machines for packaging loose products**
- **Horizontal form, fill and seal machines (FFS) for flexible packaging**
 - 1.3.1.1 Side sealed bags
 - 1.3.1.2 Tubular bags from film sheets

- 1.3.1.3 Tubular bags from film tubes
- **Vertical form, fill and seal machines (FFS) for flexible packaging - for reel fed pre-made bags**
 - 1.3.2.1 Quadratic form packagings
 - 1.3.2.2 Side sealed bags
 - 1.3.2.3 Stick packs
 - 1.3.2.4 Tubular bags from film tubes
 - 1.3.2.5 Tubular bags from sheets
- 1.3.3 **Form, fill and seal machines (FFS) for sacks**
- **Form, fill and seal machines (FFS) for rigid containers**
 - 1.3.4.1 Blister
 - 1.3.4.2 Bottles
 - 1.3.4.3 Cups
 - 1.3.4.4 Deep drawing containers
 - 1.3.4.5 Tray and similar containers
- **Erecting, filling and closing machines for cartons and boxes**
 - 1.3.5.1 Horizontal cartoning machines
 - 1.3.5.2 Vertical cartoning machines
- **Fill and seal machines (FS) for flexible packaging**
 - 1.3.6.1 Bags
 - 1.3.6.2 Big-bags (FIBCs)
 - 1.3.6.3 Nets
 - 1.3.6.4 Tubes
- **Fill and seal machines (FS) for rigid containers**
 - 1.3.7.1 Ampoules, vials and similar containers
 - 1.3.7.2 Barrels, kegs and similar containers
 - 1.3.7.3 Big-bags (IBCs)
 - 1.3.7.4 Blister
 - 1.3.7.5 Bottles
 - 1.3.7.6 Buckets
 - 1.3.7.7 Canisters
 - 1.3.7.8 Cans
 - 1.3.7.9 Cardboard boxes
 - 1.3.7.10 Cartridges
 - 1.3.7.11 Cases
 - 1.3.7.12 Cups
 - 1.3.7.13 Drums
 - 1.3.7.14 Jars
 - 1.3.7.15 Packaging jars
 - 1.3.7.16 Trays and similar containers
- 1.3.8 **Fill and seal machines (FS) for sacks**
- **Filling machines for**
 - 1.3.9.1 Aerosol cans
 - 1.3.9.2 Ampoules, vials and similar containers
 - 1.3.9.3 Bags
 - 1.3.9.4 Barrels, kegs and similar containers
 - 1.3.9.5 Big-Bags
 - 1.3.9.6 Bottles
 - 1.3.9.7 Buckets
 - 1.3.9.8 Cans
 - 1.3.9.9 Cups
 - 1.3.9.10 Canisters
 - 1.3.9.11 Large containers
 - 1.3.9.12 Nets
 - 1.3.9.13 Packaging jars
 - 1.3.9.14 Sacks
 - 1.3.9.15 Trays and similar containers
 - 1.3.9.16 Tubes
- **Closing machines for**
 - 1.3.10.1 Ampoules, vials and similar containers
 - 1.3.10.2 Bags
 - 1.3.10.3 Barrels, kegs and similar containers
 - 1.3.10.4 Bottles

- 1.3.10.5 Buckets
- 1.3.10.6 Cans
- 1.3.10.7 Cartons and boxes
- 1.3.10.8 Cases
- 1.3.10.9 Cups
- 1.3.10.10 Packaging jars
- 1.3.10.11 Sacks
- 1.3.10.12 Trays and similar containers
- 1.3.10.13 Tubes

■ **Machines for inserting piece goods into pre-fabricated packaging**

- 1.3.11.1 Boxes
- 1.3.11.2 Cases
- 1.3.11.3 Thermoformed containers (e.g. retail blister packs)
- 1.3.11.4 Trays and similar containers

■ **Machines for end-loading piece goods into**

- 1.3.12.1 Cartons
- 1.3.12.2 Folding boxes

■ **Machines to wrap piece goods (no shrinkwrapping machines)**

- 1.3.13.1 Full wrapping machines
- 1.3.13.2 Machines for partial wrap (banding machine)
- 1.3.13.3 Wrapping machines for large products

■ **Shrink wrapping machines**

- 1.3.14.1 Sleeve wrapping machines (partly wrapped)
- 1.3.14.2 Wrapping machines (fully wrapped)
- 1.3.14.3 Wrapping machines for large products

1.3.15 Strapping and banding machines

■ **Packaging machines with special equipment for hygienic packaging**

- 1.3.16.1 Aseptic filling machines
- 1.3.16.2 CAP (controlled atmosphere packaging)
- 1.3.16.3 Disinfection of packaging
- 1.3.16.4 MAP (modified atmosphere packaging)
- 1.3.16.5 Vacuum
- 1.3.16.6 Sterile packaging

■ **Machines for packaging packaged products**

1.4.1 Erecting machines for cartons and folded boxes

1.4.2 Machines to fill bags and sacks for multipacks

■ **Packaging machines for group and transport packaging**

- 1.4.3.1 Droploder
- 1.4.3.2 Sideloder
- 1.4.3.3 Toploader

1.4.4 Machines for erecting, filling and sealing group packages

■ **Wrapping machines for group and transport packagings**

- 1.4.5.1 with film and subsequent shrinking
- 1.4.5.2 with film no subsequent shrinking
- 1.4.5.3 with kraft paper or carton blank

1.4.6 Sealing machines for group and transport packagings

■ **Bundling machines**

- 1.4.7.1 Banding or strapping
- 1.4.7.2 Film wrapping
- 1.4.7.3 Labelling

■ **Palettizing machines for**

- 1.4.8.1 Barrels and similar containers
- 1.4.8.2 Bottles and cans
- 1.4.8.3 Cases and other rectangular products
- 1.4.8.4 Crates for beverages
- 1.4.8.5 Flexible, flat products

■ **Machines for securing pallets and other loading units**

- 1.4.9.1 Pallet packaging presses
- 1.4.9.2 Shrink hood machines
- 1.4.9.3 Strapping and banding machines
- 1.4.9.4 Stretch wrapping machines
- 1.4.9.5 Stretch hood machines

■ **Machines for additional operations within the packaging process**

■ **Labelling machines (inline) for**

- 1.5.1.1 Heat-seal labels
- 1.5.1.2 Hot-melt glue labels
- 1.5.1.3 Pre-gummed labels
- 1.5.1.4 Pressure sensitive labels
- 1.5.1.5 Shrink labels
- 1.5.1.6 Tag labels
- 1.5.1.7 Wet glue labels

■ **Decorating machines**

- 1.5.2.1 Capsule and capsuling machines
- 1.5.2.2 Foiling machines
- 1.5.2.3 Tag labelling machines

1.5.3 Gravimetric filling and price labelling machines

■ **Inspection machines for**

- 1.5.4.1 filling height
- 1.5.4.2 foreign materials and matters
- 1.5.4.3 leak tightness of packagings
- 1.5.4.4 product and packaging alignment
- 1.5.4.5 product and packaging information
- 1.5.4.6 product attributes
- 1.5.4.7 products and packaging damages
- 1.5.4.8 weight and volume (e.g. checkweighers)

■ **Machines for coding and/or marking within the packaging process**

- 1.5.5.1 Coding machines (Encoder)
- 1.5.5.2 Embossing systems
- 1.5.5.3 On-line printing equipment
- 1.5.5.4 Track & Trace (e.g. RFID)

■ **Applicators**

- 1.5.6.1 Equipment for adding free gifts and product information to packs
- 1.5.6.2 Equipment for adding or sealing components to packagings (e.g. tear tapes, purging spouts or carrying handles)

1.5.7 Machines and equipment for subsequently pasteurizing and sterilizing packaged products

1.5.8 Machines or equipment for conveying, storing or arranging packages or packaging components during the packaging process (without floor trucks)

■ **Shrinking equipment**

- 1.5.9.1 Shrink frames
- 1.5.9.2 Shrink ovens
- 1.5.9.3 Shrink tanks
- 1.5.9.4 Shrink tunnels

1.5.10 Machines for automatically adding padding material and edge/corner protection

■ **Machines for recovering products**

- 1.5.11.1 Blister
- 1.5.11.2 Cans and bags

■ **Other additional functions**

- 1.5.12.1 Punching devices
- 1.5.12.2 Splicer for packaging material

■ **Tools and equipment to assist manual packaging**

- 1.6.1 Adhesive-tape applicators**
- 1.6.2 Equipment for foam-filling packaging**
- 1.6.3 Equipment for lifting heavy products**
- 1.6.4 Nail and staple guns**
- 1.6.5 Price marking equipment**
- 1.6.6 Rollers for stretch film**
- 1.6.7 Shrink guns**

■ **Robotic systems**

- 1.7.1 Articulated robots**

- 1.7.2 Gantry robots
 - 1.7.3 Pick & place robots
 - Complete packaging lines
 - 1.8.1 Primary packaging
 - 1.8.2 Secondary packaging
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- Packaging materials, packaging means, auxiliary packaging means**
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- Packaging materials**
- 2.1.1 Glass
 - 2.1.2 Ceramics
 - Plastic (pellets, films)
 - Bio plastics
 - 2.1.3.1.1 Polyactid Acid (PLA)
 - 2.1.3.1.2 Polyhydroxybutyrates (PHB)
 - 2.1.3.1.3 Strach & Starch blends
 - 2.1.3.2 Polyamide (PA)
 - 2.1.3.3 Polycarbonate (PC)
 - 2.1.3.4 Polyethylene (PE)
 - 2.1.3.5 Polyethylene naphthaline (PEN)
 - 2.1.3.6 Polyethylene terephthalate (PET)
 - Polypropylene (PP)
 - 2.1.3.7.1 Bi-oriented Polypropylene (BOPP)
 - 2.1.3.7.2 Orientated Polypropylene (OPP)
 - Polystyrene (PS)
 - 2.1.3.8.1 Expanded Polystyrene (EPS)
 - 2.1.3.9 Polyurethane (PU)
 - 2.1.3.10 Polyvinyl chloride (PVC)
 - Metal
 - 2.1.4.1 Aluminium
 - 2.1.4.2 Steel
 - 2.1.4.3 Tinplate
 - Paper, carton and cardboard
 - 2.1.5.1 Cardboard
 - 2.1.5.2 Cardboard
 - 2.1.5.3 Corrugated board
 - 2.1.5.4 Paper
 - 2.1.5.5 Paper pulp
 - 2.1.5.6 Solid fibre board
 - 2.1.6 Stoneware
 - 2.1.7 Textiles, non-woven material and woven material
 - 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
 - Packagings
 - Aluminium
 - 2.2.1.1 Aerosol cans
 - 2.2.1.2 Barrels (with screw cap or with lid)
 - 2.2.1.3 Beverage cans
 - 2.2.1.4 Blister packagings
 - 2.2.1.5 Bottles
 - 2.2.1.6 Cans
 - 2.2.1.7 Capsules
 - 2.2.1.8 Cartridges
 - 2.2.1.9 Containers for storage and transport
 - 2.2.1.10 Flexible tubes
 - 2.2.1.11 Foils
 - 2.2.1.12 Mailing tubes
 - 2.2.1.13 Screw caps / Closures
 - 2.2.1.14 Semi-rigid container/trays

- 2.2.1.15 Small tubes
- 2.2.1.16 Trays
- 2.2.1.17 Tubular jackets
- Cardboard
 - 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 Canisters
 - 2.2.2.7 Cans
 - 2.2.2.8 Cases and similar containers
 - 2.2.2.9 Crates
 - 2.2.2.10 Display packagings
 - 2.2.2.11 Drums
 - 2.2.2.12 Mailing tubes
 - 2.2.2.13 Push-out packs
 - 2.2.2.14 Small cases (etuis)
 - 2.2.2.15 Tubular jackets
 - Carton
 - 2.2.3.1 Bag-in-box packagings
 - 2.2.3.2 Baskets
 - 2.2.3.3 Blister packagings
 - 2.2.3.4 Boxes (folded boxes, rigid boxes, cut-outs)
 - 2.2.3.5 Buckets
 - 2.2.3.6 Cans
 - 2.2.3.7 Carrier-bags and shopping bags
 - 2.2.3.8 CD / DVD packs
 - 2.2.3.9 Crates
 - 2.2.3.10 Cups
 - 2.2.3.11 Display packagings
 - 2.2.3.12 Push-out packs
 - 2.2.3.13 Rigid tubes
 - 2.2.3.14 Small cases (etuis)
 - Ceramics
 - 2.2.4.1 Bottles
 - Composite material
 - 2.2.5.1 Bags
 - 2.2.5.2 Blister packagings
 - 2.2.5.3 Cans
 - 2.2.5.4 Carrier-bags and shopping bags
 - 2.2.5.5 Cups
 - 2.2.5.6 Foils
 - 2.2.5.7 Lipstick tubes
 - 2.2.5.8 Tablet blisters
 - 2.2.5.9 Tubes
 - Corrugated board
 - 2.2.6.1 Boxes (folded boxes, rigid boxes, cut-outs)
 - 2.2.6.2 Cases and similar containers
 - 2.2.6.3 Containers for storage and transport
 - 2.2.6.4 Crates
 - 2.2.6.5 Display packagings
 - Fibre pulp material
 - 2.2.7.1 Trays
 - 2.2.7.2 Trays (deep drawn or pressed)
 - Glass
 - 2.2.8.1 Ampoules
 - 2.2.8.2 Bottles
 - 2.2.8.3 Cartridges & syringes
 - 2.2.8.4 Flacons
 - 2.2.8.5 Preserving jars
 - 2.2.8.6 Tablet tubes
 - Metal
 - 2.2.9.1 Bottles
 - 2.2.9.2 Buckets

2.2.9.3 Canisters
 2.2.9.4 Cans
 2.2.9.5 Cartridges
 2.2.9.6 Cases and similar containers
 2.2.9.7 Coatings
 2.2.9.8 Containers for storage and transport
 2.2.9.9 Containers with lid
 2.2.9.10 Hobbocks
 2.2.9.11 Jugs
 2.2.9.12 Tubular jackets

■ **Paper**

2.2.10.1 Bag-in-box packagings
 2.2.10.2 Bags
 2.2.10.3 Baskets
 2.2.10.4 Blister packagings
 2.2.10.5 Buckets
 2.2.10.6 Canisters
 2.2.10.7 Cans
 2.2.10.8 Carrier-bags and shopping bags
 2.2.10.9 CD / DVD packs
 2.2.10.10 Cups
 2.2.10.11 Drums
 2.2.10.12 Gift wrap paper
 2.2.10.13 Labels
 2.2.10.14 Mailing tubes
 2.2.10.15 Push-out packs
 2.2.10.16 Sacks
 2.2.10.17 Small cases (etuis)
 2.2.10.18 Tubular jackets
 2.2.10.19 Trays
 2.2.10.20 Trays (deep drawn or pressed)

■ **Plastic (not Bio)**

2.2.11.1 Ampoules
 2.2.11.2 Bag-in-box packagings
 2.2.11.3 Bags
 2.2.11.4 Bags for boiling and cooking
 2.2.11.5 Baskets
 2.2.11.6 Barrels (with screw cap or with lid)
 2.2.11.7 Bottles
 2.2.11.8 Boxes (folded boxes, rigid boxes, cut-outs)
 2.2.11.9 Buckets
 2.2.11.10 Canisters
 2.2.11.11 Cans
 2.2.11.12 Carboys
 2.2.11.13 Carrier-bags and shopping bags
 2.2.11.14 Cartridges
 2.2.11.15 Cases and similar containers
 2.2.11.16 CD / DVD packs
 2.2.11.17 Containers for storage and transport
 2.2.11.18 Containers with lid
 2.2.11.19 Crates
 2.2.11.20 Cups
 2.2.11.21 Display packagings
 2.2.11.22 Drums
 2.2.11.23 Dunnage Trays
 2.2.11.24 FIBC
 2.2.11.25 Flacons
 2.2.11.26 Foils
 2.2.11.27 Hobbocks
 2.2.11.28 IBC
 2.2.11.29 Jars
 2.2.11.30 Jugs
 2.2.11.31 Mailing tubes
 2.2.11.32 Nets
 2.2.11.33 Sacks

2.2.11.34 Tablet tubes
 2.2.11.35 Trays
 2.2.11.36 Trays (deep drawn or pressed)
 2.2.11.37 Tubular jackets
 2.2.11.38 Tubes

■ **Solid fibreboard**

2.2.12.1 Baskets
 2.2.12.2 Boxes (folded boxes, rigid boxes, cut-outs)
 2.2.12.3 Buckets
 2.2.12.4 Canisters
 2.2.12.5 Cans
 2.2.12.6 Cases and similar containers
 2.2.12.7 Containers for storage and transport
 2.2.12.8 Crates
 2.2.12.9 Drums
 2.2.12.10 Tubular jackets

■ **Steel**

2.2.13.1 Barrels (with screw cap or with lid)

■ **Textile material**

2.2.14.1 Nets

■ **Tinplate**

2.2.15.1 CD / DVD packs

■ **Wood**

2.2.16.1 Barrels (with screw cap or with lid)
 2.2.16.2 Baskets
 2.2.16.3 Boxes (folded boxes, rigid boxes, cut-outs)
 2.2.16.4 Cases and similar containers
 2.2.16.5 Containers with lid
 2.2.16.6 Crates

■ **Woven material**

2.2.17.1 Carrier-bags and shopping bags
 2.2.17.2 Containers for storage and transport
 2.2.17.3 Sacks

■ **Other Packagings**

2.2.18.1 Gelatine capsules
 2.2.18.2 Gift wrap paper
 2.2.18.3 Packaging glass (no bottles)
 2.2.18.4 Packaging stoneware
 2.2.18.5 Pitchers, jugs
 2.2.18.6 Skin packagings
 2.2.18.7 Small cases (etuis)
 2.2.18.8 Transparent packagings

■ **Auxiliary packaging means**

2.3.1 Bottle sleeves

■ **Box pallets**

2.3.2.1 Metal
 2.3.2.2 Plastic

2.3.3 Carrier handles

■ **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)
 Packaging straps

■ **Composite material**

2.3.4.4.1 Metal
 2.3.4.4.2 Paper
 2.3.4.4.3 Plastic
 2.3.4.4.4 Textile

■ **Packaging threads (string, twine, cord)**

2.3.4.5.1 Plastic
 2.3.4.5.2 Textiles

■ **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**
- **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**
- **Padding material**
- 2.3.16.1 Corner edge protection
- 2.3.16.2 foam material/foam plastic
- 2.3.17 Pallet frames**
- 2.3.18 Pallet stabilizing accessories**
- **Pallets**
- 2.3.19.1 Corrugated board
- 2.3.19.2 Metal
- 2.3.19.3 Plastic
- 2.3.19.4 Solid Fibreboard
- 2.3.20 Protective gases**
- 2.3.21 Sealing materials**
- 2.3.22 Valves**

Machines and equipment for the production of confectionery, bakery and pharmaceuticals

■ Complete lines for the production of confectionery

- 3.1.1 Processing of almonds, nuts and others
- 3.1.2 Processing of cocoa
- 3.1.3 Production of candy and cereal bars
- 3.1.4 Production of chewing gum
- 3.1.5 Production of chocolate
- 3.1.6 Production of cocoa butter
- 3.1.7 Production of cocoa liquor
- 3.1.8 Production of cocoa powder
- 3.1.9 Production of craknel
- 3.1.10 Production of foam sugar products
- 3.1.11 Production of fondant masses
- 3.1.12 Production of gum and jelly products
- 3.1.13 Production of hard and soft caramels
- 3.1.14 Production of ice cream
- 3.1.15 Production of liquorice confectionery

■ Complete lines for manufacturing bakery products, snacks and cereals

- 3.2.1 Production of bread
- 3.2.2 Production of bread rolls
- 3.2.3 Production of cereals
- 3.2.4 Production of crackers
- 3.2.5 Production of crisp bread
- 3.2.6 Production of croissants
- 3.2.7 Production of deep fried pastries
- 3.2.8 Production of donuts
- 3.2.9 Production of extruded flat bread
- 3.2.10 Production of extrudes snacks
- 3.2.11 Production of flat breads and pizza
- 3.2.12 Production of lye dough pastries
- 3.2.13 Production of pastry products
- 3.2.14 Production of pies
- 3.2.15 Production of rusk
- 3.2.16 Production of sheet cakes
- 3.2.17 Production of special bread (baguette, chiabatta, focaccia)
- 3.2.18 Production of spritz biscuits
- 3.2.19 Production of sticks
- 3.2.20 Production of thin dough (filo dough) products
- 3.2.21 Production of toast

3.3 Complete coffee processing lines

3.4 Complete lines for the production of pharmaceutical products

■ Single machines /equipment for the production of confectionery, bakery and pharmaceuticals

- 3.5.1 Aerating equipment
- 3.5.2 Beating machines
- 3.5.3 Bending machines (e.g. for croissants)
- 3.5.4 Biscuit and wafer filling equipment
- 3.5.5 Blending and granulating equipment
- 3.5.6 Bread roll forming equipment
- 3.5.7 Breaking drums
- 3.5.8 Caramelisers
- 3.5.9 Cleaning machines for cocoa beans, nuts, almonds and others
- 3.5.10 Cluster equipment
- 3.5.11 Coating machines
- 3.5.12 Coating systems
- 3.5.13 Cocoa bean crushers
- 3.5.14 Cocoa mass and cocoa butter compression coolers

3.5.15 Cocoa powder equipment
 3.5.16 Cocoa presses
 3.5.17 Compacting and briquetting presses
 3.5.18 Conches
 3.5.19 Conditioning machines
 3.5.20 Cone baking equipment
 3.5.21 Cooking equipment
 3.5.22 Cooking extruders
 3.5.23 Cooling belts
 3.5.24 Cooling equipment
 3.5.25 Cooling machines
 3.5.26 Cooling tunnels
 3.5.27 Crushing machines
 3.5.28 Cutting machines
 3.5.29 Decorating equipment
 3.5.30 Deep frying equipment
 3.5.31 Depositing equipment/depositors
 3.5.32 Depositing machines
 3.5.33 Deshelling equipment/machines for nuts, almonds and others
 3.5.34 De-Starching equipment
 3.5.35 De-tempering equipment
 3.5.36 Dosing and mixing equipment
 3.5.37 Dough band formers
 3.5.38 Dough dividing machines
 3.5.39 Dough rollers
 3.5.40 Drying equipment
 3.5.41 Enrobing equipment
 3.5.42 Extruders
 3.5.43 Filling systems
 3.5.44 Finishing machines
 3.5.45 Flaking rollers
 3.5.46 Forming and cutting machines
 3.5.47 Forming lines
 3.5.48 Forming machines
 3.5.49 Freeze dryer
 3.5.50 Freezers
 3.5.51 Granulating machines
 3.5.52 Guillotines
 3.5.53 Heat exchangers
 3.5.54 Heat tunnels
 3.5.55 High frequency/microwave dryers
 3.5.56 Hollow article moulding equipment
 3.5.57 Hollow wafer stick equipment
 3.5.58 Hot air dryers/toasters
 3.5.59 Industrial proofing systems
 3.5.60 Infrared-dryers/toasters
 3.5.61 Isolators
 3.5.62 Kneader
 3.5.63 Laminators
 3.5.64 Machines and equipment for dragee and tablet production
 3.5.65 Marzipan paste production machines
 3.5.66 Melting equipment
 3.5.67 Mills
 3.5.68 Mixers
 3.5.69 Mixing and kneading equipment
 3.5.70 Mogul equipment
 3.5.71 Moulding equipment
 3.5.72 Moulding machines for pastries
 3.5.73 Moulding rollers, engraved
 3.5.74 Moulds for solid and hollow article moulding equipment
 3.5.75 Multi-deck baking ovens
 3.5.76 Nougat cream production machines
 3.5.77 Oiling equipment
 3.5.78 Panning machines
 3.5.79 Praline forming machines

3.5.80 Praline masses manufacturing machines
 3.5.81 Puffing equipment
 3.5.82 Pulling machines
 3.5.83 Punching and cutting machines for raw pastries
 3.5.84 Refining machines
 3.5.85 Rework converting machines
 3.5.86 Roasting and cooling equipment
 3.5.87 Roasting machines
 3.5.88 Rolling and scoring lines (sticks and pellets)
 3.5.89 Rolling machines
 3.5.90 Rope forming and sizing machines
 3.5.91 Sheeters
 3.5.92 Sieving machines, equipment
 3.5.93 Spraying equipment
 3.5.94 Spreading machines
 3.5.95 Sprinkling equipment
 3.5.96 Starch sprinklers
 3.5.97 Starch trays
 3.5.98 Steam cooking equipment
 3.5.99 Sterilizing equipment for cocoa, nuts, almonds and others
 3.5.100 Sugar sanding equipment
 3.5.101 Tablet presses
 3.5.102 Tempering and aerating equipment
 3.5.103 Tempering belts
 3.5.104 Tempering cylinders
 3.5.105 Tempering equipment
 3.5.106 Tray loaders
 3.5.107 Tray stackers
 3.5.108 Tunnel ovens
 3.5.109 Twisting machines
 3.5.110 Vermicelli and non-pareille equipment
 3.5.111 Wafer baking ovens
 3.5.112 Wafer cream production equipment
 3.5.113 Wafer production equipment
 3.5.114 Wire-cut and roll-out biscuit machines
 3.5.115 Wood fired ovens
 3.5.116 Wrapping machines

■ **Operating and auxiliary equipment for the production of confectionery, bakery and pharmaceuticals**

3.6.1 Cleaning and disinfection systems (CIP and HACCP)
 3.6.2 Cleaning machines
 3.6.3 Containers for charging/discharging machines
 3.6.4 Cooling and air conditioning technology
 3.6.5 Laboratory equipment
 3.6.6 Lifting and tipping devices for containers
 3.6.7 Magnetic separators
 3.6.8 Metal detectors
 3.6.9 Nozzle systems
 3.6.10 Pumps
 3.6.11 Pumps and valve systems
 3.6.12 Sifting and classifying machines
 3.6.13 Sorting equipment
 3.6.14 Vacuum technology
 3.6.15 Weighing equipment

■ **Storage, logistics and transport equipment**

3.7.1 Conveying and storage systems
 3.7.2 Feeding systems
 3.7.3 Pallet conveyors
 3.7.4 Silos and accessories
 3.7.5 Stacking units
 3.7.6 Steel belt conveyors
 3.7.7 Storage systems

- 3.7.8 Take-off systems
- 3.7.9 Tanks (heated)
- 3.7.10 Thermal storage tanks
- 3.7.11 Transport trolley
- Transport and handling systems for
- 3.7.12.1 ... bulk goods
- 3.7.12.2 ... solid goods

Services

- **Business support**
- 4.1.1 Assembly, maintenance and repair services
- 4.1.2 Consulting and project planning of track & trace solutions
- 4.1.3 Contract packaging and fulfilment
- 4.1.4 Leasing / rental services
- 4.1.5 Operating (Co-Packing)
- 4.1.6 Packaging consulting
- 4.1.7 Packaging design
- 4.1.8 Packaging waste disposal and recycling
- 4.1.9 Project planning and implementation of packaging lines
- 4.1.10 Recycling operators
- 4.1.11 Remote diagnosis / teleservice
- 4.1.12 Retrofit
- 4.1.13 Software solutions for the manufacturing and packaging process
- 4.1.14 Trainings
- **Trade press**
- 4.2.1 Online media
- 4.2.2 Trade books
- 4.2.3 Trade magazines
- **Research and teachings**
- 4.3.1 Institutes
- 4.3.2 Universities and Universities of applied sciences
- 4.4 **Associations and branch organizations**