

Organizzatore:  
CEPRA Srl Unipersonale  
Centro Direzionale Milanofiori  
1ª Strada - Palazzo F3  
I-20057 ASSAGO (MI)  
P.IVA 04701000152  
Cap. Sociale € 412.800,00 I.V  
R.E.A. 1031986  
Registro Imprese MI146-193211  
Tel. +39-02-89210200  
Fax +39-02-8259009  
info@xylexpo.com  
www.xylexpo.com



**28ª WORLD EXHIBITION FOR  
WOODWORKING TECHNOLOGY  
AND COMPONENTS FOR THE FURNITURE INDUSTRY  
MILAN (ITALY) - FIERAMILANO - FAIRGROUNDS RHO  
MAY 21/24, 2024**



**CLASSIFIED INDEX OF PRODUCTS**

# MAIN CATEGORIES

- 00 Machines, technical equipment and services for forestry
- 01 Machines and technical equipment for primary processing (production of semifinished products)
- 02 Machines and technical equipment for secondary processing (laminating, machining, gluing)
- 03 Machines and technical equipment for surface finishing
- 04 Machines and technical equipment for assembly, packaging
- 05 Materials handling, warehousing and commissioning technology
- 06 Robots technology
- 10 Machines and plants for special processes
- 11 Machines and plants for special product groups
- 18 Xiliary machines, equipment and devices; other
- 19 Portable machines for processing of timber, plastics, composites and other materials
- 20 Tools and auxiliaries
- 21 Machines, equipment and tools for maintenance and manufacturing of tools
- 22 Products for the equipment of machines
- 30 Use of residual wood (dust, chips, firewood, bark), generation of energy and heating using wood fuels
- 31 Energy saving, environmental protection, occupational safety, fire prevention and air-conditioning
- 40 Electronic data acquisition and data processing equipment; measuring, testing and control systems
- 70 Materials, elements, products and accessories for the wood and furniture industry
- 80 Delivery of complete plants, financing and leasing companies
- 90 Independent computer software (cad, erp, production planning and control, etc.)
- 95 Independent services for the wood industries
- 96 Research and testing institutes, educational institutions for the timber and woodworking industries (universities, technical colleges, etc.)
- 97 Publishers of literature for the timber and woodworking industries

## **00 MACHINES, TECHNICAL EQUIPMENT AND SERVICES FOR FORESTRY**

### **00.01 Machines, equipment, tools and auxiliary equipment for ...**

- 00.01.01 Soil cultivation
- 00.01.02 Fertilising
- 00.01.03 Forestry collection and plant production
- 00.01.04 Forest protection
- 00.01.05 Forestry track and waterway development
- 00.01.06 Tending of young growth and forest crops
- 00.01.07 Crop improvement, pruning and thinning
- 00.01.08 Plant and tree nurseries
- 00.01.09 Seed, site preparation and planting
- 00.01.10 Forestry surveying
- 00.01.11 Silviculture, site / soil rehabilitation, forest protection
- 00.01.12 Preservation of wood, pest control

### **00.02 Wood harvesting and skidding**

- 00.02.01 Machines and equipment for pruning
- 00.02.02 Debarking machines and equipment
- 00.02.03 Harvesting machines
- 00.02.04 Forest tractors, specialised forest tractors and equipment
- 00.02.05 Skidding and cable logging
- 00.02.06 Cranes and other forest equipment
- 00.02.07 Portable chain saws and auxiliary equipment
- 00.02.08 Drag carts / skidding trailer
- 00.02.09 Skidding cables, skidding choker, safety belt and assessment
- 00.02.10 Skidding winches, skidding tongs
- 00.02.11 Lubricants and fuel for forestry machines

### **00.03 Forestry tools and auxiliary equipment**

- 00.03.01 Axes, hatchets
- 00.03.02 Chains
- 00.03.03 Knives
- 00.03.04 Clippers
- 00.03.05 Ropes and cables
- 00.03.06 Anchor log, log cribbing
- 00.03.07 Equipment and auxiliary material for marking, labeling and numbering in the forest

### **00.04 Vehicles for timber transport and handling**

- 00.04.01 Truck loading cranes and log grabs
- 00.04.02 Shortwood trailers
- 00.04.03 Short loggers
- 00.04.04 Log trucks
- 00.04.05 Trailers
- 00.04.06 Auxiliary equipment for wood transport, forest machinery and vehicles

**00.05 Telecommunication facilities and mobile data processing for forestry**

- 00.05.01 Equipment and systems for forest inventories
- 00.05.02 Equipment and systems for measuring timber
- 00.05.03 Stock management and logistics
- 00.05.04 Software for forestry
- 00.05.05 Forest fire monitoring and fire fighting

**00.06 Occupational safety for forestry**

- 00.06.01 Protective clothing and work clothes
- 00.06.02 Protective equipment

**00.07 Services for forestry**

- 00.07.01 Work preparation and techniques
- 00.07.02 Services for wood harvesting
- 00.07.03 Forest inventory, forest monitoring
- 00.07.04 Forest certification
- 00.07.50 Independent engineering and consulting services for the forestry industry
- 00.07.99 "Services for the forestry industry; other"

**00.08 Publishers of literature for the forestry industry**

- 00.08.01 Technical journals and periodicals for the forestry industry
- 00.08.03 Technical books for the forestry industry
- 00.08.04 Web based publications for the forestry industry

**00.09 Research and testing institutes, educational institutions (universities, technical colleges, etc.) for the forestry industry**

- 00.09.01 Educational institutions for the forestry industry
- 00.09.02 Research institutions for the forestry industry
- 00.09.03 Testing institutions for the forestry industry

**00.10 Environmental protection for the forestry industry**

- 00.10.01 Mobile fuel tanks and pumps
- 00.10.02 Storage of water polluting materials (oil etc.)
- 00.10.03 Storage of hazardous materials

## **01 MACHINES AND TECHNICAL EQUIPMENT FOR PRIMARY PROCESSING (PRODUCTION OF SEMI-FINISHED PRODUCTS)**

### **01.01 Roundwood yard**

- 01.01.01 Mobile log conveyors
- 01.01.02 Cranes for roundwood yards
- 01.01.03 Stationary conveying devices for roundwood yards
- 01.01.04 Storage systems for roundwood yards
- 01.01.05 Log sorting stations
- 01.01.06 Sprinkling systems for wet preservation of wood
- 01.01.07 Machinery and tools for debarking of roundwood
- 01.01.08 Rotating log reducers / butt end reducers
- 01.01.09 Cross-cut saws
  - 01.01.09.01 Mobile chain saws
  - 01.01.09.02 Stationary chain saws
  - 01.01.09.03 Cross-cut circular saws
  - 01.01.09.04 Cutting to length station with continuous feed
- 01.01.10 Plants for measuring and optimization of roundwood
- 01.01.11 Metal detectors and removers for roundwood
- 01.01.12 Tools for marking and labeling of roundwood and logs

### **01.02 Sawmilling technology (sawn timber production)**

- 01.02.01 Log conversion and resawing machines
  - 01.02.01.01 Horizontal frame saws
  - 01.02.01.02 Vertical frame saws
  - 01.02.01.03 Log band saws, horizontal
  - 01.02.01.04 Log band saws, vertical
  - 01.02.01.05 Band resaws
  - 01.02.01.06 Multiple band saws
  - 01.02.01.07 Single arbour circular saws for roundwood
  - 01.02.01.08 Double arbour circular saws for roundwood
  - 01.02.01.09 Circular saws with freewheeling carriage for roundwood
  - 01.02.01.10 Circular saws for construction timber
  - 01.02.01.11 Chipper canters / profiling lines
  - 01.02.01.12 Chipper- / band saw combinations
  - 01.02.01.13 Chipless cutting machines for boards and laminated material
  - 01.02.01.14 Circular saws with carriage for resawing

- 01.02.01.15 Circular resaws
- 01.02.01.16 Single arbor edger / rip saw
- 01.02.01.17 Double arbor edger / rip saw
- 01.02.01.18 Combined vertical-horizontal circular saws
- 01.02.01.19 Optimizing board edgers
- 01.02.01.20 Cross-cutting saws
- 01.02.01.21 Continuous trim saws
- 01.02.01.22 Cross-cut saws with guide bar for timber packs
- 01.02.02 Equipment for transportation, sorting and stacking of sawn timber
- 01.02.02.01 Timber sorting stations
- 01.02.02.02 Conveyors for sawn timber (roller conveyors / tracks, cross-transfer units, etc.)
- 01.02.02.03 Timber stacking and bundling stations
- 01.02.03 Measuring and registration of sawn timber
- 01.02.04 Mobile log saws
- 01.02.04.01 Mobile log band saws
- 01.02.04.02 Mobile log circular saws

### **01.03 Drying, steaming and impregnation of solid timber and other materials**

- 01.03.01 Steaming plants
- 01.03.02 Kiln dryers
- 01.03.02.01 Conventional dryers
- 01.03.02.02 Vacuum dryers
- 01.03.02.03 Condensation dryers, e.g. heat pump dryers
- 01.03.02.04 Dryers for special processes (e.g. high frequency drying, micro wave drying)
- 01.03.03 Wood moisture measuring equipment
- 01.03.03.01 Moisture meters, hand-held
- 01.03.03.02 Moisture meters, inline
- 01.03.04 Kiln control equipment
- 01.03.05 Impregnating plants
- 01.03.06 Plants for heat treatment of wood for changing its physical characteristics
- 01.03.07 Plants for chemical treatment of wood for changing its appearance (e.g. by ammonia, oils etc.)

### **01.04 Production of veneers**

- 01.04.01 Steaming / cooking plants for veneer flitches
- 01.04.02 Specialised sawing machines for sawing of veneer logs
- 01.04.03 Flitch planers
- 01.04.04 Veneer slicers

- 01.04.05      Rotation slicers
- 01.04.06      Veneer peelers
- 01.04.07      Centering and loading equipment
- 01.04.08      Staylog devices
- 01.04.09      Veneer reeling, sorting and offloading equipment
- 01.04.10      Conveying and storage equipment (magazines) for sliced and peeled veneers
- 01.04.11      Veneer dryers
- 01.04.11.01    Belt dryers
- 01.04.11.02    Roller dryers
- 01.04.11.03    Press / ironing dryers
- 01.04.12      Inline wood moisture control equipment for veneer dryers
- 01.04.13      Veneer guillotines / clippers
- 01.04.13.01    Sliced veneer guillotines
- 01.04.13.02    Peeled veneer clippers
- 01.04.14      Devices / plants for measuring and labeling of veneers
- 01.04.15      Veneer bundling machines

**01.05    Production of solid coating materials based on paper (laminates, films, etc.)**

- 01.05.01      Lines for impregnating and coating of papers and tissue
- 01.05.02      Air flotation dryers for impregnated / coated papers
- 01.05.03      Resin blenders and proportioning devices / systems
- 01.05.04      Cycle presses for laminates (e.g. HPL)
- 01.05.05      Continuous-type presses for laminates (e.g. CPL)
- 01.05.06      Laminate and film cutting machines
- 01.05.06.01    Laminate and film clippers
- 01.05.06.02    Laminate and film cutting machines with roller shear knives
- 01.05.07      Systems for production data acquisition and quality monitoring for solid coating materials

**01.06    Production of veneer plywood and laminated veneer lumber**

- 01.06.01      Jointing machines for peeled veneer
- 01.06.02      Splicers for peeled veneer
- 01.06.03      Scarfing lines for peeled veneer
- 01.06.04      Core stock gluing machines (cutting to length, gluing, pressing, etc.)
- 01.06.05      Glue spreaders for veneers and boards
- 01.06.06      Block presses for plywood and laminated veneer lumber
- 01.06.07      Plywood presses for flat surfaces
- 01.06.09      Equipment for glue preparation, proportioning and transport for plywood plants

- 01.06.10 Conveying and storage equipment for plywood plants
- 01.06.11 Systems for production data acquisition and quality monitoring for plywood plants

**01.07 Production of particle board, fibre board and OSB**

- 01.07.01 Crushers for waste materials, e.g. waste wood, demolition wood, used wood products etc.
- 01.07.02 Chipper and chipping mills
- 01.07.03 Flakers
  - 01.07.03.01 Long log flakers
  - 01.07.03.02 Flakers for industrial waste wood (slabs, offcuts, etc.) and other materials
  - 01.07.03.03 Knife ring flakers for hogged wood and other materials
- 01.07.04 Hammermills, beating flakers
- 01.07.05 Grinders for shavings, flakes, sawdust, etc. (impact mills, sievering mills, etc.)
- 01.07.06 Cleaning plants for hogged wood
- 01.07.07 Conveying and storage equipment for hogged wood chips, fibres, etc.
- 01.07.08 Refiners
- 01.07.09 Dryers for chips, fibres, strands
- 01.07.10 Sifting / screening equipment
- 01.07.11 Glue preparation and dosing equipment
- 01.07.12 Gluing and mixing equipment
- 01.07.13 Spreading and matforming systems
- 01.07.14 Belt scales
- 01.07.15 Moisturing equipment for chips and fibre mats
- 01.07.16 Presses
  - 01.07.16.01 Cycle pre-presses
  - 01.07.16.02 Continuous pre-presses
  - 01.07.16.03 Multi-daylight presses
  - 01.07.16.04 Single daylight presses
  - 01.07.16.05 Continuous-type presses
  - 01.07.16.06 Calender presses
- 01.07.17 Panel edging machines
- 01.07.18 Running cross-cut saws
- 01.07.19 Cooling stations
- 01.07.20 Sanding lines
- 01.07.21 Panel dividing machines
- 01.07.22 Warehousing, handling, commissioning equipment for panels
- 01.07.23 Packaging equipment for panels

01.07.24 Systems for production data acquisition and quality monitoring for particle board, fibre board and OSB plants

01.07.25 Special equipment components for machinery and plants for particle boards, fibre boards and OSB production

01.07.26 Separating technology

#### **01.08 Production of lightweight boards / sandwich elements**

01.08.01 Machines for expanding and drying honeycombs

01.08.02 Machines for panel frames

01.08.03 Machines for core composition

01.08.04 Presses for lightweight boards / sandwich elements production

#### **01.09 Production of contoured surfaces and mouldings**

01.09.01 Presses for moulded parts of particles, fibres and other materials

01.09.02 Presses for contoured surfaces and mouldings of plywood or other laminates

01.09.03 Extruders

#### **01.99 Machines and technical equipment for primary processing, other**

### **02 MACHINES AND TECHNICAL EQUIPMENT FOR SECONDARY PROCESSING (LAMINATING, MACHINING, GLUING)**

#### **02.01 Veneer processing**

02.01.01 Veneer ironing presses

02.01.02 Veneer cross-cutters

02.01.03 Veneer pack shears

02.01.03.01 Single knife veneer pack shears

02.01.03.02 Double knife veneer pack shears

02.01.04 Veneer strip sizing machines

02.01.05 Circular saws for veneer packs

02.01.06 Edge planing / cutting machines for veneer packs

02.01.07 Machines for glue application on veneer edges

02.01.08 Longitudinal veneer splicers

02.01.09 Cross-feed veneer splicers

02.01.10 End gluing machines

02.01.11 Machines and equipment for lengthwise joining of veneers (e.g. by means of finger joints)

02.01.12 Veneer patching machines

02.01.13 Equipment for measuring and optimizing of veneers

02.01.14 Luminous tables for veneer inspection

02.01.15 Veneer tenderizing machines (flexer)

## **02.02 Presses, laminating and profile wrapping machines for solid coating materials (veneering, laminating, film coating, etc.)**

- 02.02.01 Brushing and cleaning machines for workpieces
- 02.02.02 Glue spreaders for boards / veneers
- 02.02.03 Mechanical feeding, storing and laying systems for coating materials
- 02.02.04 Cycle presses
  - 02.02.04.01 Hand-fed cycle presses
  - 02.02.04.02 Mechanised fed cycle presses / short-cycle presses
  - 02.02.04.03 Block cycle presses for laminating
  - 02.02.04.04 Cycle presses for laminating of moulded parts
  - 02.02.04.05 Membrane presses
- 02.02.05 Continuous press / laminating systems
  - 02.02.05.01 Double-band presses
  - 02.02.05.02 Foil roll-on lines / continuous surface laminating plants
  - 02.02.05.03 Continuous surface laminating plants with integrated edge-wrapping units
  - 02.02.05.04 Profile wrapping machines
- 02.02.06 Machines for the application of protective films
- 02.02.07 Gilding machines for hot application of gold foil
- 02.02.08 Aggregates for dividing and trimming of coated parts
- 02.02.09 Equipment for loading, offloading and conveying of laminated parts
- 02.02.10 Equipment for glue preparation, proportioning and transport
- 02.02.11 Fleece backing machines for veneer and synthetic coating material

## **02.03 Sawing machines for further processing of solid wood, wood-based panels, plastics, composites and other materials**

- 02.03.01 Undercut cross-cutting saws
- 02.03.02 Topcut cross-cutting saws
  - 02.03.02.01 Pendulum saws
  - 02.03.02.02 Radial arm saws
- 02.03.03 Optimizing cross-cutting saws
- 02.03.04 Single and double mitre saws
- 02.03.05 Multi-blade trimming circular saws
- 02.03.06 Single blade circular saws with moving saw unit
- 02.03.07 Single- and multi-blade circular saws for edging or ripping
- 02.03.08 Special sawing machines for thin saw kerfs
  - 02.03.08.01 Frame saws for thin saw kerfs
  - 02.03.08.02 Circular saws for thin saw kerfs

- 02.03.09 Table saws
- 02.03.10 Sliding table saws
- 02.03.11 Vertical panel saws
- 02.03.12 Horizontal panel saws with pressure beam
  - 02.03.12.01 Horizontal panel saws with pressure beam for longitudinal cuts
  - 02.03.12.02 Horizontal panel saws with pressure beam for cross cuts
  - 02.03.12.03 Horizontal panel saws with pressure beam for longitudinal and cross cuts (angular system)
- 02.03.13 Overhead panel saws (portal saws) for longitudinal and / or cross-cutting
- 02.03.14 Narrow band saws
- 02.03.15 Copying band saws
- 02.03.16 Jig saws
- 02.03.17 Notching saws
- 02.03.18 Sawing machines for building sites
- 02.03.19 CNC band saws
- 02.03.20 Double panel sizing circular sawing machines for parallel and / or squaring cuts, hand feed
- 02.03.21 Optimizing rip saws

#### **02.04 Moulding and planing machines**

- 02.04.01 Surface planers
- 02.04.02 Thickness planers
- 02.04.03 Scraper machines
- 02.04.04 Planing / sawing machines
- 02.04.05 Planer / sander combinations
- 02.04.06 Angular-edge surface planers for surfacing and jointing in one operation
- 02.04.07 Two-side thicknessing planers for surfacing and thicknessing in one operation
- 02.04.08 Three- and four-side planers
- 02.04.09 Moulding machines for three-and four-side machining
- 02.04.10 Face milling machines for one and multi-side machining
- 02.04.11 Single-spindle moulders
- 02.04.12 Finger jointing machines
- 02.04.13 Routers
- 02.04.14 CNC routers
- 02.04.15 Copy moulders
  - 02.04.15.01 Copy moulders for longitudinal processing of moulded parts (also with additional sanding units, etc.)
  - 02.04.15.02 Copy moulders with rotating table (also with additional sanding units, etc.)

- 02.04.15.03 Copy moulders with tool control by pattern and automatic rotation of workpiece (with one or more spindles, also with additional sanding units)
- 02.04.16 Double-sided CNC moulding (and sanding) machines for contoured parts
- 02.04.17 Copy carving machines
- 02.04.18 Rod moulders
- 02.04.19 Lip trimmers
- 02.04.20 Round rod moulders
- 02.04.21 Spiral moulders
- 02.04.22 Mitre moulders
- 02.04.23 Mullion moulders
- 02.04.24 Groove cutters for stairs, ladders and louvres
- 02.04.25 Decorative strip moulders
- 02.04.26 Scarf moulders
- 02.04.99 Moulding machines for special applications

#### **02.05 Finger jointing technology**

- 02.05.01 Machines for cutting finger joints
- 02.05.02 Glue application systems for finger joints
- 02.05.03 Finger jointing presses
- 02.05.04 Finger jointing lines for cross-cutting, cutting finger joints, glue application, pressing, etc.

#### **02.06 Tenoning machines**

- 02.06.01 End tenoners for straight tenons
- 02.06.01.01 Single-end tenoners for straight tenons
- 02.06.01.02 Double-end tenoners for straight tenons
- 02.06.02 Round end tenoners
- 02.06.02.01 Single round end tenoners
- 02.06.02.02 Double round end tenoners

#### **02.07 Profiling and sizing machines (trimming, length cutting, profiling, sanding, etc.)**

- 02.07.01 Single-end profilers / sizing machines for non-flat parts, e.g. scantlings
- 02.07.02 Single-end profilers / sizing machines for flat parts, e.g. panels
- 02.07.03 Double-end profilers / sizing machines for non-flat parts, e.g. scantlings
- 02.07.04 Double-end profilers / sizing machines for flat parts, e.g. panels

#### **02.08 Edge banding machines (edge banding, trimming, sanding, etc.)**

- 02.08.01 Single-end edge banding machines
- 02.08.01.01 Single-end edge banding machines for straight edges
- 02.08.01.02 Single-end edge banding machines for softforming
- 02.08.01.03 Single-end edge banding machines for shaped / curved parts

- 02.08.02 Double-end edge banding machines
- 02.08.02.01 Double-end edge banding machines for straight edges
- 02.08.02.02 Double-end edge banding machines for softforming
- 02.08.02.03 Double-end edge banding machines for shaped / curved parts
- 02.08.03 Table edge banding machines

#### **02.09 Sizing and edge banding machines (sizing, profiling, edge banding, trimming, sanding, etc.)**

- 02.09.01 Single-end sizing and edge banding machines
- 02.09.01.01 Single-end sizing and edge banding machines for straight edges
- 02.09.01.02 Single-end sizing and edge banding machines for softforming
- 02.09.01.03 Single-end sizing and edge banding machines for shaped / curved parts
- 02.09.02 Double-end sizing and edge banding machines
- 02.09.02.01 Double-end sizing and edge banding machines for straight edges
- 02.09.02.02 Double-end sizing and edge banding machines for softforming
- 02.09.02.03 Double-end sizing and edge banding machines for shaped / curved parts

#### **02.10 Postforming machines**

- 02.10.01 Postforming machines for stationary processing
- 02.10.02 Postforming machines for through-feed processing
- 02.10.02.01 Postforming machines for laminates
- 02.10.02.02 Direct-postforming machines for laminated / veneered panels

#### **02.11 Folding systems**

- 02.11.01 Longitudinal folding systems
- 02.11.02 Mitre cutting machines for cross-folding
- 02.11.03 Carcass presses / gluing stations for cross-folding
- 02.11.04 Cross-folding systems (cutting to length, mitre cutting, glue application, folding, pressing, etc.)

#### **02.12 Machines for boring, dowel-driving and hardware inserting**

- 02.12.01 Boring machines with one or several boring heads
- 02.12.01.01 Universal multispindle boring machines, stationary processing
- 02.12.01.02 Multispindle boring machines with horizontal and / or vertical heads, stationary processing
- 02.12.01.03 Through feed multi-spindle boring machines with horizontal and / or vertical heads
- 02.12.02 Dowel hole boring machines for rack, frame and other prismatic components, stationary or through feed processing
- 02.12.03 Boring machines for sawing, moulding, boring and dowel-driving
- 02.12.04 Machines for boring, milling, hardware inserting, etc.
- 02.12.05 CNC boring machines
- 02.12.05.01 CNC boring machines for stationary processing

- 02.12.05.02 Through feed CNC boring machines
- 02.12.06 Dowel driving machines (gluing, driving-in)
- 02.12.07 Machines for hardware inserting
- 02.12.08 Knothole boring machines
- 02.12.09 Bench- and column-type boring machines
- 02.12.10 Slot boring machines

### **02.13 Hardware recessing machines**

### **02.14 Mortising machines**

- 02.14.01 Mortisers with orbital tool action
- 02.14.02 Chain mortisers
- 02.14.03 Chisel mortisers
- 02.14.04 Mortisers, optionally for chain or chisel

### **02.15 Turning machines**

- 02.15.01 Turning lathes
- 02.15.02 Facing lathes
- 02.15.03 Profiling lathes
- 02.15.04 Copying lathes with tool control by template
- 02.15.05 CNC lathes

### **02.16 Sanding machines**

- 02.16.01 Longbelt sanders with table
- 02.16.02 Longbelt sanders with mechanical feed
- 02.16.03 Wide-belt sanders
- 02.16.04 Cross-belt / wide-belt sanders
- 02.16.05 Veneer sheet sanders
- 02.16.06 Abrasive calibrating machines
- 02.16.07 Wide-belt sanders for calibrating and sanding
- 02.16.08 Drum sanders for surface sanding
- 02.16.09 Sanders for curved and moulded components
- 02.16.10 Sanders for intermediate lacquer sanding
- 02.16.11 Profile sanders
  - 02.16.11.01 Single-end profile sanders
  - 02.16.11.02 Double-end profile sanders
- 02.16.12 Bobbin sanders
- 02.16.13 Belt sanders
- 02.16.14 Disc sanders

- 02.16.15 Sanders for round rods
- 02.16.16 Sanders for lathe turned parts
- 02.16.17 CNC sanding centres for complete sanding of all surfaces

#### **02.17 Polishing and buffing machines**

- 02.17.01 Polishing machines for flat surfaces
- 02.17.02 Polishing machines for mouldings
- 02.17.03 Polishing machines for strips
- 02.17.04 Polishing / buffing machines with automatic feed
- 02.17.05 Buffing stands

#### **02.18 Forming machines**

- 02.18.01 Bending machines
- 02.18.02 Embossing machines
- 02.18.02.01 Stationary embossing machines
- 02.18.02.02 Through feed embossing machines
- 02.18.99 "Forming machines; other"

#### **02.19 Combined machines (space-induced combinations)**

- 02.19.01 Surfacing and thicknessers
- 02.19.02 Combined circular saws and moulders
- 02.19.03 Combined circular saws, moulders and slot mortisers
- 02.19.04 Combined circular saws, surfacing, moulders and slot mortisers
- 02.19.05 Universal combined machines for carpentry and joinery
- 02.19.06 Universal combined machines for DIY
- 02.19.99 "Combined machines; other"

#### **02.20 Machining centres (stationary processing)**

- 02.20.01 Machining centres for sawing, routing, profiling, boring, sanding
- 02.20.02 Machining centres for edge-banding
- 02.20.03 Machining centres for routing, sawing, boring, edge banding
- 02.20.04 Machining centres for routing, sawing, boring, hardware and dowel inserting, etc.

#### **02.21 Manufacturing cells**

#### **02.22 Presses and equipment for gluing of solid timber components and other materials**

- 02.22.01 Vertical edge joint gluing machines
- 02.22.02 Continuous feed edge joint gluing presses for boards and scantlings
- 02.22.03 Core composer / board gluing machines
- 02.22.04 Laminated timber presses / clamps for construction timber, glulam, etc.

#### **02.23 Presses / clamps for corner joints**

- 02.23.01 Universal table presses
- 02.23.02 Frame clamps
- 02.23.03 Semicircular arch joint gluing machines

#### **02.24 Punch presses**

- 02.24.01 Punch presses for mitres
- 02.24.02 Punch presses for muntin bars
- 02.24.99 "Punch presses; other"

### **03 MACHINES AND TECHNICAL EQUIPMENT FOR SURFACE FINISHING**

#### **03.01 Coating with liquid materials (lacquering, etc.)**

- 03.01.01 Surface pre-conditioning
  - 03.01.01.01 Sand-blasting equipment
  - 03.01.01.02 Texturing / brushing machines
  - 03.01.01.03 Cleaning brushes
- 03.01.02 Bleaching and staining plants
- 03.01.03 Filler applying machines by knife or roller
- 03.01.04 Printing (e.g. wood grain) plants
- 03.01.05 Automatic spraying machines / robots for spray finishing
- 03.01.06 Rotation spraying systems
- 03.01.07 Electrostatic spraying equipment
- 03.01.08 Curtain coaters
- 03.01.09 Roller coaters
- 03.01.10 Vacuum coaters
- 03.01.11 Dipping equipment
- 03.01.12 Flooding systems
- 03.01.13 Edge coating systems
- 03.01.14 Drum coating systems
- 03.01.15 Spray walls and booths
- 03.01.16 Lacquer drying and curing lines
- 03.01.17 Conveyers for lacquering plants
- 03.01.18 Equipment for preparation, dosing and transport of liquid coating materials (e.g. lacquer, stain, etc.)

#### **03.02 Surface finishing with solid materials**

- 03.02.01 Machines and equipment for powder coating
- 03.02.02 Plaster coating machines

- 03.02.03 Engraving and coating machines on wood and with wood pulp
- 03.02.99 "Machines and equipment for coating with solid material; other"

**03.03 Machines and equipment for pyrography or marking**

**04 MACHINES AND TECHNICAL EQUIPMENT FOR ASSEMBLY, PACKAGING**

**04.01 Assembly technology**

- 04.01.01 Pre-assembly lines for furniture parts
- 04.01.02 Carcass gluing station
  - 04.01.02.01 Glue spreading stations for carcass components
  - 04.01.02.02 Pre-clamping station
  - 04.01.02.03 Carcass clamps
- 04.01.03 Final assembly work stations for furniture parts, carcass furniture
- 04.01.04 Final assembly lines for furniture
- 04.01.05 Assembly work stations and lines for windows, doors and facade elements
- 04.01.99 "Assembly systems; other"

**04.02 Nailing, stapling and screw-setting machines**

- 04.02.01 Nailing machines
- 04.02.02 Stapling and stitching machines
- 04.02.03 Screw-setting machines

**04.03 Packaging technology**

- 04.03.01 Packaging machines for furniture parts and carcass furniture
- 04.03.02 Packaging machines for flat parts (floor elements, panels, etc.)
- 04.03.03 Packaging machines for boards, custom sized boards, etc.
- 04.03.99 "Packaging machines; other"

**05 MATERIALS HANDLING, WAREHOUSING AND COMMISSIONING TECHNOLOGY**

**05.01 Materials handling technology**

- 05.01.01 Off-road forklifts, front and side forklifts including auxiliary equipment
- 05.01.03 Lifting tables
- 05.01.04 Stacking and bundling stations
- 05.01.05 Vacuum lifting equipment
- 05.01.06 Infeed units
- 05.01.07 Outfeed and stacking units
- 05.01.08 Board turning stations
- 05.01.09 Angle transfer stations

- 05.01.10 Cross conveyors
- 05.01.11 Reverse conveyors
- 05.01.12 Roller conveyors
- 05.01.12.01 Driven roller conveyors
- 05.01.12.02 Undriven roller conveyors
- 05.01.13 Belt conveyors
- 05.01.14 Overhead conveyors
- 05.01.15 Transport trolleys, shelf trolleys, etc.
- 05.01.16 Commissioning trolleys, commissioning containers
- 05.01.17 Roller stands
- 05.01.18 Feeding units for joiners machines (surface planers, single-spindle moulders etc.)
- 05.01.90 Specialised materials handling technology
- 05.01.90.01 Specialised materials handling technology for optimizing rip saws
- 05.01.90.02 Specialised materials handling technology for finger jointing lines
- 05.01.90.03 Specialised materials handling technology for planing lines
- 05.01.90.04 Specialised materials handling technology for sawing lines
- 05.01.90.20 Specialised feeding systems for crushers, chippers etc.
- 05.01.90.99 "Specialised materials handling technology; other"

## **05.02 Warehousing and commissioning technology**

- 05.02.01 Shelving systems
- 05.02.02 Storage and retrieval equipment for shelves and racks
- 05.02.03 Sorting and commissioning systems
- 05.02.04 Storage and commissioning systems for large boards (e.g. stacking cranes)
- 05.02.99 "Storage systems; other"

## **06 ROBOTS TECHNOLOGY**

- 06.01 Robots for handling, feeding and palleting, etc.**
- 06.02 Robots for joining and assembling**
- 06.03 Robots for spraying, lacquering, etc.**
- 06.04 Robots for chipping processes (sanding, cutting, etc.)**
- 06.99 Robots; other**

## **10 MACHINES AND PLANTS FOR SPECIAL PROCESSES**

- 10.01 Laser technology**
- 10.02 High frequency technology**

**10.03 Microwave technology**

**10.04 Supersonic technology**

**10.06 Thermic smoothening**

**10.07 Water jet cutting**

**10.99 Special processes; other**

## **11 MACHINES AND PLANTS FOR SPECIAL PRODUCT GROUPS**

### **11.01 Machines and plants for structural elements**

11.01.01 Machines and plants for windows and facades

11.01.01.01 Processing centres for longitudinal and cross-wise processing of window parts

11.01.01.99 Machines for windows and facades; other

11.01.02 Machines and plants for doors and frames

11.01.03 Machines and plants for timber construction

11.01.03.01 Trimming lines

11.01.03.02 Special machines for carpenters and building industry

11.01.04 Machines and plants for prefab house construction, e.g. wood frame construction

11.01.04.01 Assembly tables

11.01.04.02 Automatic nailers for wall units, etc.

11.01.04.03 Machining centres for structural elements

11.01.05 Machines and equipment for glue laminated timber / glulam construction

11.01.06 Machines and equipment for timber flooring / parquetry

11.01.07 Machines and equipment for laminate floorings

11.01.08 Machines and equipment for stair construction

### **11.02 Machines and equipment for manufacturing solid timber boards**

### **11.03 Machines and equipment for manufacturing rack furniture (chairs, tables, etc.)**

### **11.04 Machines for manufacturing and treatment of wooden packaging (pallets, boxes, etc.)**

11.04.01 Machines and equipment for manufacturing pallets, stationary

11.04.02 Pallets production lines

11.04.03 Machines and equipment for manufacturing packing for vegetables and fruits, stationary

11.04.04 Production lines for manufacturing packing for vegetables and fruits

11.04.05 Machines for manufacturing industrial packing (boxes, etc.)

11.04.06 Machines for manufacturing cable drums

11.04.07 Plants for heat treatment of pallets and other wood packaging material

11.04.08 Plants for fumigation of pallets and other wood packaging material

### **11.05 Machines and equipment for manufacturing doors for furniture**

**11.06 Machines and equipment for manufacturing drawers**

**11.07 Machines and equipment for manufacturing picture frames and frames**

11.07.01 V-cutting double circular saws

11.07.02 Stapling, stapling-gluing machines for assembling frames

11.07.03 Machines for metallic joining elements and respective hardware (V staples, flexible tabs, etc.)

11.07.04 Single Head Miter Cutting machines

11.07.05 Miter Cutting Guillotines

11.07.06 Automated systems for frame manufacturing

**11.08 Machines and equipment for manufacturing wood barrels**

**11.09 Machines for manufacturing and processing insulating materials**

11.09.01 Machines for manufacturing insulating materials

11.09.02 Machines for processing insulating materials

**11.99 Machines and plants for different products**

11.99.01 Machines and plants for brooms and brushes

11.99.02 Machines and plants for pencils

11.99.03 Machines and plants for clogs, wood soles, wood heels, shoes last

11.99.04 Machines and plants for dowels

11.99.05 Machines and plants for poles, masts, palisades, wood fences

11.99.06 Machines and plants for rattan furniture

11.99.07 Machines and plants for furniture handles

11.99.08 Machines and plants for louvres and shutters

11.99.09 Machines and plants for coffins

11.99.10 Machines and plants for shuttering panels

11.99.11 Machines and plants for agricultural tool handles (for shovel, spade, hoe, rake, hammer, pick, etc.)

11.99.12 Machines and plants for sporting equipment (billiard cues, paddles, oars, etc.)

11.99.13 Machines and plants for tooth picks / chop sticks

11.99.14 Machines and plants for matches

11.99.15 Machines and plants for woodwool

11.99.16 Machines and plants for wood shavings for animal bedding

11.99.17 Machines and plants for wood shingles

11.99.18 Machines and plants for bed staves / slats

**18 AUXILIARY MACHINES, EQUIPMENT AND DEVICES; OTHER**

**18.02 Stirring units**

**18.03 Weighting systems**

**18.04 Planing benches, working tables**

**18.05 Clamps**

**18.99 Auxiliary machines; other**

**19 PORTABLE MACHINES FOR PROCESSING OF TIMBER, PLASTICS, COMPOSITES AND OTHER MATERIALS**

**19.01 Portable plastic shears**

**19.02 Portable keyhole saws**

**19.03 Portable band saws**

**19.04 Portable circular saws**

**19.05 Portable debarkers**

**19.06 Portable planers**

**19.07 Portable routers**

**19.08 Portable edge working machines**

**19.09 Portable boring machines**

**19.10 Portable chain mortisers**

**19.11 Portable chisel mortisers**

**19.12 Portable vibratory sanders**

**19.13 Portable belt sanders**

**19.14 Portable disc sanders**

**19.15 Portable nailers**

**19.16 Portable staplers**

**19.17 Portable powered screwdrivers**

**19.18 Portable glue spreaders**

**1919 Portable spraying equipment (e.g. guns for lacquers / adhesives)**

**19.20 Portable veneer splicing equipment**

**19.21 Layed floor sanding machines**

**19.90 Cases for portable machines, tools etc.**

**19.99 Special-purpose portable machines**

**20 TOOLS AND AUXILIARIES**

**20.01 Machine cutting tools**

**20.01.01 Band saw blades**

**20.01.01.01 Band saw blades for log band saws / band resaws**

20.01.01.02	Band saw blades for narrow band saws
20.01.02	Frame saw blades
20.01.02.01	Frame saw blades, all-steel
20.01.02.02	Frame saw blades, chrome-plated
20.01.02.03	Frame saw blades, tipped with cobalt alloy
20.01.02.04	Frame saw blades, HW-tipped
20.01.03	Circular saw blades
20.01.03.01	Circular saw blades, all-steel
20.01.03.02	Circular saw blades, tipped with cobalt alloy
20.01.03.03	Circular saw blades, HW-tipped
20.01.03.04	Circular saw blades, DP-tipped
20.01.04	Hogging systems
20.01.04.01	Hogging systems for shaping of flat parts (e.g. panels), HW-tipped
20.01.04.02	Hogging systems for shaping of flat parts (e.g. panels), DP-tipped
20.01.04.03	Folding hogger, HW-tipped
20.01.04.04	Folding hogger, DP-tipped
20.01.04.05	Hoggers for shaping of non-flat parts, e.g. scantlings
20.01.05	Long planer heads
20.01.06	Cutters with bore (cutters and cutter heads)
20.01.06.01	Cutters with bore, all-steel
20.01.06.02	Cutters with bore, HW- / special steel-tipped
20.01.06.03	Cutters with bore, with turnover knives (HW / special steel)
20.01.06.04	Cutters with bore, DP-tipped
20.01.07	Shank cutters
20.01.07.01	Shank cutters for routers
20.01.07.03	Shank cutters for portable machines
20.01.07.10	Shank cutters for CNC routers and machining centres, all-steel
20.01.07.11	Shank cutters for CNC routers and machining centres, HW- / special steel-tipped
20.01.07.12	Shank cutters for CNC routers and machining centres, with turnover knives (HW / special steel)
20.01.07.13	Shank cutters for CNC routers and machining centres, DP-tipped
20.01.07.99	Shank cutters; other
20.01.08	Machine boring bits
20.01.08.01	Twist drill
20.01.08.02	Through-hole boring bits
20.01.08.03	Dowel bits
20.01.08.04	Cylinder boring bits
20.01.08.05	Step boring bits

- 20.01.08.06 Countersink bits
- 20.01.08.07 Plug cutters
- 20.01.09 Tool systems for window and door manufacturing incl. slotting and tenoning cutters
- 20.01.10 Cutters with taper shank (cutters and cutter heads)
- 20.01.10.01 Cutters with taper shank, all-steel
- 20.01.10.02 Cutters with taper shank, HW- / special steel-tipped
- 20.01.10.03 Cutters with taper shank, with turnover knives (HW / special steel)
- 20.01.10.04 Cutters with taper shank, DP-tipped
- 20.01.50 "Machine cutting tools; other"
- 20.01.50.01 Oscillating mortise chisel and auxiliary equipment
- 20.01.50.02 Mortise chains and auxiliary equipment
- 20.01.50.03 Scraping tools and auxiliary equipment
- 20.01.50.04 Turning tools
- 20.01.50.05 Saw chains
- 20.01.50.06 Master plates for circular saw blades
- 20.01.90 Tools for special materials
- 20.01.90.01 Tools for working with light alloy
- 20.01.90.02 Tools for working with glass
- 20.01.90.03 Tools for working with stone
- 20.01.90.04 Tools for working with mineral materials
- 20.01.90.99 Tools for special materials; other
- 20.02 Knives, turn blade knives, hogger segments, etc.**
- 20.02.01 Knives for cutters, cutter heads
- 20.02.02 Turn blade knives
- 20.02.03 Backing plates, limiters
- 20.02.04 Blank knives
- 20.02.05 Hogger segments
- 20.02.06 Cast cobalt alloys
- 20.02.07 Semi-finished products made from tungsten carbide, e.g. rods, strips, tips for saw blades, etc.
- 20.02.08 Hogging knives
- 20.02.09 Circular knives
- 20.02.10 Peeling and veneer knives
- 20.02.11 Semi-finished products made from PCD, e.g. discs, segments, saw tips for saw-blades, etc.
- 20.03 Tool clamping systems**
- 20.03.01 Clamping systems for circular saw blades
- 20.03.02 Clamping systems for cutters with bore

20.03.03 Clamping systems for shank cutters

20.03.04 Clamping systems for boring bits

#### **20.04 Tool measuring and setting systems**

20.04.01 Tool measuring and setting instruments

20.04.02 Tool measuring and setting gauges

#### **20.05 Tool management systems**

20.05.01 Systems for tool encoding

20.05.02 Software for tool management systems

#### **20.06 Sanding and buffing tools**

20.06.01 Long sanding belts

20.06.02 Wide sanding belts

20.06.03 Buffing tools

20.06.04 Abrasive discs and wheels

20.06.05 Sanding brushes

20.06.06 Profile sanding tools

20.06.99 Sanding tools and materials; other

#### **20.07 Auxiliary equipment and spare parts for machine tools (e.g. clamping wedges, spacers, guide rings, sharpening devices)**

#### **20.08 Manual hand-held tools**

20.08.01 Hand saws

20.08.02 Hand planes

20.08.03 Chisels, turning tools, carving tools, etc.

20.08.04 Hammers

20.08.05 Tools for measuring and marking

20.08.99 Manual hand-held tools; other

#### **20.09 Clamps and guides for tools**

20.09.01 Saw tensioners, frame saw buckles and spacers

20.09.02 Band saw guides

20.09.03 Cutter bars for saw chains

20.09.04 Moulding spindles / cutter arbors

### **21 MACHINES, EQUIPMENT AND TOOLS FOR MAINTENANCE AND MANUFACTURING OF TOOLS**

#### **21.01 Machines, equipment and tools for maintenance and manufacturing of machine cutting tools**

21.01.01 Saw sharpeners

21.01.02 Saw filers

- 21.01.03 Saw setting, swaging and dressing machines
- 21.01.04 Saw brazing and welding machines
- 21.01.05 Saw blade rolling and leveling machines
- 21.01.06 Hardening machines for saw tooth points
- 21.01.07 Band saw blade shearing and scarf-jointing machines
- 21.01.08 Knife grinding machines
- 21.01.08.01 Knife grinding machines for planing, flaking and chipper knives
- 21.01.08.02 Knife grinding machines for veneer knives (slicing, peeling, clipping)
- 21.01.08.03 Knife grinding machines for knife rings
- 21.01.08.90 Clamping systems for knife grinding machines
- 21.01.09 Sharpeners for scrapers
- 21.01.10 Sharpeners for moulding cutters
- 21.01.11 Sharpeners for boring bits and routing cutters
- 21.01.12 Sharpeners for chain tools
- 21.01.13 Universal tool and cutter sharpeners
- 21.01.14 Sharpeners for carbide-tipped sawing, moulding and planing tools
- 21.01.15 Sharpeners for diamond tools
- 21.01.50 Cleaning machines and equipment for machine tools
- 21.01.60 Wheels for sharpening tools (except diamond wheels)
- 21.01.61 Diamond wheels for sharpening tools
- 21.01.90 Sharpeners for special applications
- 21.01.99 Machines, equipment and tools for maintenance and manufacturing of machine cutting tools; other

## **21.02 Machines, equipment and tools for maintenance and manufacturing of manual hand-held tools**

## **22 PRODUCTS FOR THE EQUIPMENT OF MACHINES**

### **22.01 Drive systems**

- 22.01.01 Electric drive systems
  - 22.01.01.01 Electric motors
  - 22.01.01.02 Electrospindles
  - 22.01.01.03 Gear motors
  - 22.01.01.04 Frequency converters
  - 22.01.01.05 Electronic drive units
  - 22.01.01.06 Linear motors / electro-cylinders
  - 22.01.01.07 Electric, electronic and magnetic switchgear and control units
  - 22.01.01.99 Electric drive systems; other

- 22.01.02 Pneumatic drive units
- 22.01.02.02 Pneumatic components and equipment
- 22.01.02.03 Pneumatic controls and regulators
- 22.01.03 Hydraulic drive units
- 22.01.03.01 Hydraulic components and equipment
- 22.01.03.02 Hydraulic controls and regulators
- 22.01.10 Elements and accessories for drive systems
- 22.01.10.01 Speed reducers and controllers
- 22.01.10.02 Clutches and brakes
- 22.01.10.03 Roller bearings and precision bearings
- 22.01.10.04 Linear modules
- 22.01.10.99 Elements and accessories for drive systems; other
- 22.01.20 Compressors

## **22.02 Machining units**

- 22.02.01 Sawing units
- 22.02.02 Planing units
- 22.02.03 Moulding units
- 22.02.04 Boring units
- 22.02.05 Mortising units
- 22.02.06 Sanding and polishing units
- 22.02.07 Spraying units
- 22.02.08 Gluing units
- 22.02.09 Assembling units
- 22.02.10 High frequency and microwave equipment (e.g. generators)
- 22.02.11 Tool changers for CNC machines
- 22.02.12 Cam mechanisms and cams
- 22.02.13 Antistatic systems

## **22.03 Clamps and guides for workpieces**

- 22.03.01 Laser projectors, shadow guiding devices
- 22.03.02 Workpiece fences and stops
- 22.03.02.01 Workpiece fences and stops, mechanised positioning
- 22.03.02.02 Workpiece fences and stops, computerised positioning
- 22.03.03 Clamping devices
- 22.03.04 Vacuum systems
- 22.03.04.01 Pumps and components for vacuum systems
- 22.03.04.02 Vacuum cup clamping devices

- 22.03.04.03 Central vacuum systems
- 22.03.05 Dovetailing attachments
- 22.03.06 Dowel boring jigs
- 22.04 Mechanical operating and clamping elements for machines, devices and conveyors (handles, handwheels, knobs, etc.)**
- 22.05 Operating supply items**
- 22.05.01 Lubricants
- 22.05.02 Flux materials
- 22.99 Items of equipment; other**
- 22.99.01 Pumps, valves, pipe systems
- 22.99.02 Drainage screens
- 22.99.03 Plates, screens and plastic inserts for presses
- 22.99.04 Press belts for continuous presses
- 22.99.05 Hot platens and heating rods
- 22.99.06 Press moulds and cylinders for manufacturing moulded parts of chips, fibres, plastics, or for overlaying with solid materials
- 22.99.07 Conveyor elements
- 22.99.07.01 Rollers and wheels
- 22.99.07.02 Belts
- 22.99.07.99 Conveyor elements; other
- 22.99.08 Non-electronic control units and devices
- 22.99.09 Central lubrication systems
- 22.99.10 Belt sanding pads
- 22.99.11 Filters, filter elements and cartridges
- 22.99.12 Cable routers
- 22.99.13 UV-beamers / bulbs for UV curing
- 22.99.14 Rollers and wheels with needles for towing of wood
- 22.99.15 Transmission and conveyor chains

## **30 USE OF RESIDUAL WOOD (DUST, CHIPS, FIREWOOD, BARK), GENERATION OF ENERGY AND HEATING USING WOOD FUELS**

### **30.01 Preparation, transportation and storage of dust, chips, firewood, etc.**

- 30.01.01 Cleaving machines for roundwood, firewood, etc.
- 30.01.02 Hoggers
- 30.01.02.01 Stationary hoggers
- 30.01.02.02 Mobile hoggers

- 30.01.03 Chopping machines (slow-speed)
- 30.01.04 Firewood saws
- 30.01.05 Firewood bundling machines
- 30.01.06 Briquetting presses
- 30.01.07 Wood pelleting presses
- 30.01.12 Sweeping machines
- 30.01.13 Pellet storage and transport systems
- 30.01.14 Turn-key wood pellets plants
- 30.01.15 Dryers for wood pellets materials
- 30.01.16 Dryers for wood fuels
- 30.01.20 Chips and dust extraction equipment
- 30.01.20.01 Chips and dust extraction systems (including filters)
- 30.01.20.02 Extraction systems
- 30.01.20.03 Extraction machines, stand alone
- 30.01.20.04 Filtering separators
- 30.01.20.05 Silos
- 30.01.20.06 Industrial vacuum cleaners
- 30.01.20.07 Fans
- 30.01.20.08 Warm air heaters
- 30.01.20.09 Residual dust concentration monitoring systems
- 30.01.20.10 Specialised control systems for chips and dust extraction systems
- 30.01.20.99 Chips and dust extraction equipment; other

### **30.02 Generation of energy and heating using wood fuels**

- 30.02.01 Boiler systems with furnaces for wood fuels (solid wood, chips, dust, etc.)
- 30.02.02 Wood furnaces for generating hot gas
- 30.02.03 Wood gas generators
- 30.02.04 Wood furnaces for generating electrical energy
- 30.02.05 Chimneys, ovens and burners
- 30.02.99 Plants, units and auxiliary equipment for energy generation; other

## **31 ENERGY SAVING, ENVIRONMENTAL PROTECTION, OCCUPATIONAL SAFETY, FIRE PREVENTION AND AIR-CONDITIONING**

### **31.01 Energy saving**

- 31.01.01 Plants and equipment for energy recycling
- 31.01.02 Energy-saving pneumatic conveying systems and auxiliary equipment
- 31.01.99 Plants, units and auxiliary equipment for energy saving; other

### **31.02 Safety technology**

### **31.03 Environmental protection**

- 31.03.01 Purification plants for water and liquid chemicals
- 31.03.02 Environmentally friendly lubricants and fuels
- 31.03.03 Exhaust air and gases purification plants and equipment
- 31.03.04 Combustion plant for chemicals (lacquers, glues, films, etc.)

### **31.04 Occupational safety**

- 31.04.01 Sound-proofing equipment (sound-proofing cabins, etc.)
- 31.04.02 Safety devices for machines
- 31.04.03 Protective clothing and equipment (including work clothes)

### **31.05 Fire protection and fighting, explosion protection**

- 31.05.01 Fire alarm systems
- 31.05.02 Fire and spark extinguishing systems
- 31.05.03 Sprinkler systems
- 31.05.04 Explosion protection systems

### **31.06 Air-conditioning technology**

- 31.06.01 Air-conditioning equipment
- 31.06.02 Air-conditioning chambers
- 31.06.03 Air humidification systems
- 31.06.04 Measuring and control units for air-conditioning

## **40 ELECTRONIC DATA ACQUISITION AND DATA PROCESSING EQUIPMENT; MEASURING, TESTING AND CONTROL SYSTEMS**

### **40.01 Electronic data acquisition and data processing equipment**

- 40.01.01 Numerical control systems
- 40.01.02 CAM systems
- 40.01.03 NC programming systems
- 40.01.04 Identification systems for component identification and labeling (Barcode, etc.)
- 40.01.05 Image processing systems for identification of colours, structure, surface inspection, optical measuring, etc.
- 40.01.06 Electronic equipment for data acquisition and data processing for special manufacturing sectors and areas
  - 40.01.06.01 Electronic equipment for data acquisition and data processing for roundwood yards and saw mills
  - 40.01.06.02 Electronic equipment for data acquisition and data processing for veneer plants
  - 40.01.06.03 Electronic equipment for data acquisition and data processing for veneer cutting and splicing
  - 40.01.06.04 Electronic equipment for data acquisition and data processing for furniture manufacturing

40.01.06.05 Electronic equipment for data acquisition and data processing for wood-based panels manufacturing

**40.02 Measuring, testing and control systems**

40.02.01 Workpiece measuring instruments

40.02.02 Material testing and fault detection instruments

40.02.03 Production monitoring systems

40.02.04 Metal detectors and removers

40.02.99 Measuring and testing equipment; other

**70 MATERIALS, ELEMENTS, PRODUCTS AND ACCESSORIES FOR THE WOOD AND FURNITURE INDUSTRY**

**70.01 Wooden or wood-based materials, semi-finished products and finished products.**

70.01.01 Timber

70.01.02 Wood-based panels

70.01.03 Wooden semi-finished products

70.01.04 Semi-finished products made from wood-based materials

70.01.05 Veneering and veneered panels

70.01.06 Borders

70.01.07 Battens, profiles and mouldings

70.01.08 Furniture components

70.01.08.01 Frames

70.01.08.02 Cupboard doors

70.01.08.03 Furniture components, other

70.01.09 Wooden building materials

70.01.09.01 Building materials and structural products e.g. beams

70.01.09.02 Building components e.g. parquet, mouldings, etc.

70.01.99 Wooden or wood-based materials, semi-finished products and finished products, other

**70.02 Chemical products for the wood industry**

70.02.01 Preservatives

70.02.02 Impregnating agents

70.02.03 Colorants

70.02.04 Fire retardant agents

70.02.05 Adhesives and glues

70.02.06 Resins

70.02.99 Chemical products for the wood industry, other

**70.03 Surface treatment and finishing materials**

- 70.03.01 Decorative paper
- 70.03.02 Films
- 70.03.03 Laminated products
- 70.03.04 Veneered products
- 70.03.05 Abrasives, see voices 20.06.01 - 20.06.02 -20.06.03 -20.06.04 -20.06.05 -20.06.06
- 70.03.99 Surface treatment and finishing materials, other

**70.04 Auxiliary chemical products for surface treatment and finishing**

- 70.04.01 Surface preparation - primers, fillers and other products
- 70.04.02 Colours
- 70.04.03 Lacquers
- 70.04.04 Paint
- 70.04.05 Solvents
- 70.04.99 Auxiliary chemical products for surface treatment and finishing, other

**70.05 Connection and fastening elements**

- 70.05.01 Nails, fasteners, staples, screws, etc see also 04.02.01 - 04.02.02 -04.02.03
- 70.05.02 Furniture assembly parts
- 70.05.99 Connection and fastening elements, other

**70.06 Functional elements and hardware for wooden articles**

- 70.06.01 Hinges
- 70.06.02 Closing devices
- 70.06.03 Guides and slides
- 70.06.04 Handles, knobs and decorative parts
- 70.06.99 Functional elements and hardware for wooden articles, other

**70.07 Domestic appliances, built-in elements and kitchen equipment**

**70.08 Padding material and equipment**

- 70.08.01 Frames
- 70.08.02 Padding material
- 70.08.03 Upholstery material
- 70.08.04 Machines and equipment for manufacturing padded articles

**80 DELIVERY OF COMPLETE PLANTS, FINANCING AND LEASING COMPANIES**

**80.01 General contractors for the delivery of complete plants**

- 80.01.01 General contractors for saw mills
- 80.01.02 General contractors for veneer and plywood plants

- 80.01.03 General contractors for plants for manufacturing of solid coating materials (laminates, films, foils, etc.)
- 80.01.04 General contractors for particle board, fibre board and OSB production plants
- 80.01.05 General contractors for furniture production plants
- 80.01.06 General contractors for solid wood processing plants
- 80.01.07 General contractors for plants for manufacturing of wooden construction elements (windows, facades, etc.)
- 80.01.08 General contractors for timber construction and wooden houses
- 80.01.09 General contractors for laminate flooring plants
- 80.01.10 General contractors for solid wood parquetry plants
- 80.01.11 General contractors for plants for solid wood panel production
- 80.01.12 General contractors for plants for mineral bonded wood (cement) boards
- 80.01.99 General contractors, other

**80.02 Financing companies**

**80.03 Leasing companies**

**90 INDEPENDENT COMPUTER SOFTWARE (CAD, ERP, PRODUCTION PLANNING AND CONTROL, ETC.)**

**90.01 Independent software for saw mills and roundwood yards**

**90.02 Independent software for veneer and plywood production**

**90.03 Independent software for particle board, fibre board and OSB production**

**90.04 Independent software for veneer processing**

**90.05 Independent software for solid wood processing**

**90.06 Independent software for the furniture industry**

**90.07 Independent software for window construction**

**90.08 Independent software for timber construction**

**90.09 Independent software for the craft business**

**90.10 Independent software for stair construction**

**90.11 Independent software for the timber trade**

**90.50 Standard software for the wood industries (ERP, material management, personnel management, cost accounting, etc.)**

**90.99 Independent software; other**

**95 INDEPENDENT SERVICES FOR THE WOOD INDUSTRIES**

**95.01 Independent engineering and consulting services for the wood industries**

95.01.01 Independent engineering and consulting services for saw mills

95.01.02 Independent engineering and consulting services for veneer and plywood plants

- 95.01.03 Independent engineering and consulting services for manufacturing of solid coating materials and laminating technology (laminates, films, foils, etc.)
- 95.01.04 Independent engineering and consulting services for particle board, fibre board and OSB production
- 95.01.05 Independent engineering and consulting services for the furniture industry
- 95.01.06 Independent engineering and consulting services for solid wood drying and steaming
- 95.01.07 Independent engineering and consulting services for solid wood processing
- 95.01.08 Independent engineering and consulting services for windows and facades
- 95.01.09 Independent engineering and consulting services for timber construction
- 95.01.10 Independent engineering and consulting services for craft business
- 95.01.11 Independent engineering and consulting services for surface finishing
- 95.01.12 Independent engineering and consulting services for the generation of energy using wood fuels and energy saving
- 95.01.13 Independent engineering and consulting services for environmental protection
- 95.01.14 Independent engineering and consulting services for safety technology, occupational and fire safety

**95.02 Training services**

**95.03 Maintenance, repair, installation, de-installation, refurbishing and retrofitting of machines and plants**

**95.04 Associations**

**95.05 Fair organisations**

**95.99 Services; other**

**96 RESEARCH AND TESTING INSTITUTES, EDUCATIONAL INSTITUTIONS FOR THE TIMBER AND WOODWORKING INDUSTRIES (UNIVERSITIES, TECHNICAL COLLEGES, ETC.)**

**96.01 Educational institutions for the timber and woodworking industries**

**96.02 Research institutions for the timber and woodworking industries**

**96.03 Testing institutions for the timber and woodworking industries**

**97 PUBLISHERS OF LITERATURE FOR THE TIMBER AND WOODWORKING INDUSTRIES**

**97.01 Technical journals and periodicals for the timber and woodworking industries**

**97.03 Technical books for the timber and woodworking industries**

**97.04 Web based publications for the timber and woodworking industries**