

17 BUILDING MACHINES

17. 1 Machines and devices for earth works and rock works

- 17. 1. 1 Shovel excavators
- 17. 1. 1. 1 Micro and mini excavators up to Gj max. 8 t with all types of chassis
- 17. 1. 1. 2 Wheel excavators of the tractor type with loading and excavating devices
- 17. 1. 1. 3 Wheel excavators with normal and telescopic booms and rope control incl. excavators on car chassis
- 17. 1. 1. 4 Caterpillars with normal and telescopic booms and rope control
- 17. 1. 1. 5 Special equipment for excavators (booms, working containers and others)
- 17. 1. 2 Bucket excavators for surface mining (in brickworks)
- 17. 1. 3 Ditch excavators (chain ditchers, bucket ditchers, milling etc.)
- 17. 1. 4 Special excavators
- 17. 1. 5 Wheel and caterpillar tractor machines and their working equipment
- 17. 1. 5. 1 Tractors and carriers
- 17. 1. 5. 2 Dozers
- 17. 1. 5. 3 Rippers
- 17. 1. 5. 4 Pipes and underground cables layer
- 17. 1. 5. 5 Machinery for laying cables in protective sheaths
- 17. 1. 6 Graders and their working equipment
- 17. 1. 6. 1 Levelling graders
- 17. 1. 7 Scrapers, including scrapers with elevators
- 17. 1. 8 Consolidation machinery for earthworks
- 17. 1. 8. 1 Static runner rollers including pneumatic
- 17. 1. 8. 2 Vibrating rollers - towed, controlled and guided
- 17. 1. 8. 3 Vibrating towed rollers
- 17. 1. 8. 4 Plate vibrators
- 17. 1. 8. 5 Vibrating rammers
- 17. 1. 8. 6 Explosive tamping machines
- 17. 1. 8. 7 Compactors
- 17. 1. 8. 8 Underground vibrators
- 17. 1. 9 Machine and equipment for quarry-faced boreholes
- 17. 1. 9. 1 Boring instruments, hammers and tools
- 17. 1. 9. 2 Boring quarry-faced sets of all types
- 17. 1.10 Machines for orchard and garden adaptations
- 17. 1.11 Equipment for building machines diagnostics
- 17. 1.12 Additional equipment for earthworking building machines
- 17. 1.12. 1 Hydraulic grabs
- 17. 1.13 Combustion engines for building machinery
- 17. 1.14 Wheels and tires for building machines
- 17. 1.15 Rubber tracks for construction equipment
- 17. 1.16 Accumulators for building machines
- 17. 1.17 Lubrication technology for building machines
- 17. 1.18 Lubricants for construction equipment
- 17. 1.19 GPS systems for building machines
- 17. 1.99 Machines and devices for earthworks and rock works - other

17. 2 Machines and devices for production, transport and concrete mixture processing and reinforcement to concrete

- 17. 2. 1 Machines and equipment for aggregate treatment
- 17. 2. 1. 1 Crushers and mills
- 17. 2. 1. 2 Graders and washers
- 17. 2. 1. 3 Crushing and grading movable and stable sets
- 17. 2. 2 Equipment for stone transport and storage at plants
- 17. 2. 3 Machines and devices for production of reinforcement to concrete
- 17. 2. 3. 1 Straighteners
- 17. 2. 3. 2 Cutters
- 17. 2. 3. 3 Benders
- 17. 2. 3. 4 Production lines for concrete reinforcing steels
- 17. 2. 3. 5 Sets for prepressing of concrete reinforcement
- 17. 2. 3. 6 Winding and tensing equipments for twisted constructions
- 17. 2. 4 Device for stone dosage and handling with cement
- 17. 2. 4. 1 Device for stone weighing and dosage

- 17. 2. 4. 2 Device for handling with cement (cement cars, silos, screw conveyors, transshipment yards etc.)
- 17. 2. 4. 3 Device for dosage of cement, water, additives, etc.
- 17. 2. 5 Sets for concrete mix production
- 17. 2. 5. 1 Single mixers of all types
- 17. 2. 5. 2 Mobile and stationary concrete mixing plants
- 17. 2. 5. 2. 1 Mobile concrete mixing plants
- 17. 2. 5. 2. 2 Stationary concrete mixing plants
- 17. 2. 6 Machines and devices for concrete mix transport
- 17. 2. 6. 1 Truck mixers and truck agitators
- 17. 2. 6. 2 Trucks and tub containers
- 17. 2. 6. 3 Motocars
- 17. 2. 6. 4 Concrete buckets
- 17. 2. 6. 5 Inspection bunkers
- 17. 2. 6. 6 Concrete pumps with beams towed and truck, rotary, piston etc.
- 17. 2. 6. 7 Sludge pumps
- 17. 2. 6. 8 Equipment for concrete mixers cleaning
- 17. 2. 7 Devices for storage and processing of concrete mixes
- 17. 2. 7. 1 Chutes
- 17. 2. 7. 2 Devices for concrete steam curing and heating
- 17. 2. 7. 3 Draught vibrators - electrical, pneumatic
- 17. 2. 7. 4 Surface vibrators of all types - electrical, pneumatic
- 17. 2. 7. 5 Vibrating tables and troughs
- 17. 2. 7. 6 Vibrating cores
- 17. 2. 7. 7 Frequency converters
- 17. 2. 7.99 Devices for storage and processing of concrete mixes - other
- 17. 2. 8 Testing and laboratory devices for identification of concrete mixes and concrete qualities
- 17. 2.99 Machines and devices for production, transport and concrete mixture processing to concrete - other

17. 3 Machines and devices for transport, handling and storage of building materials

- 17. 3. 1 Means of transport
- 17. 3. 1. 1 Rail means of transport
- 17. 3. 1. 2 Trucks and high-capacity dampers with fixed frames
- 17. 3. 1. 3 Dampers with hinged frame
- 17. 3. 1. 4 Trailer cars
- 17. 3. 1. 4. 1 Trailers of all types
- 17. 3. 1. 4. 2 Semi-trailers of all types
- 17. 3. 1. 5 Track vehicles of all types
- 17. 3. 2 Machines and devices for building material handling
- 17. 3. 2. 1 Mini loading machines to 4.5 t
- 17. 3. 2. 2 Face loaders, loading shovel, wheel and belt loaders
- 17. 3. 2. 3 Telescopic loaders
- 17. 3. 2. 4 Rotary loading shovels
- 17. 3. 2. 5 Loaders - other (grab, shaping etc.)
- 17. 3. 2. 6 Additional outfit for loaders
- 17. 3. 2. 7 Unloaders of all types
- 17. 3. 2. 8 Trucks
- 17. 3. 2. 8. 1 Low-lift trucks
- 17. 3. 2. 8. 2 High-lift trucks
- 17. 3. 2. 8. 3 Additional outfit for trucks
- 17. 3. 2. 9 Belt conveyors
- 17. 3. 2.10 Screw conveyors
- 17. 3. 2.11 Conveyors - other
- 17. 3. 3 Means for loading operations
- 17. 3. 3. 1 Special trucks - containers, containers of silos, pallets, glass, windows etc.
- 17. 3. 3. 2 Hydraulic arms of all types
- 17. 3. 3. 3 Unloading and transshipment manipulating cranes
- 17. 3. 3. 4 Mobile and track full-portal cranes and lifting devices
- 17. 3. 3. 5 Loading platforms, ramps, jacks
- 17. 3. 3. 6 Manipulating means - manipulators, vacuum holders, containers, pallets etc.
- 17. 3. 4 Means for building material storage
- 17. 3. 4. 1 Silos and bunkers
- 17. 3. 4. 1. 1 Silos for loose building materials
- 17. 3. 4. 1. 2 Heating devices of silos for concrete
- 17. 3.99 Machines and devices for transport, handling and storage of building materials - other

17. 4 Lifting means in the building industry

- 17. 4. 1 Tower cranes
- 17. 4. 2 Mobile cranes

- 17. 4. 2. 1 All-purpose manipulating mobile cranes
- 17. 4. 2. 2 Road mobile, wheel cranes - telescopic and panel
- 17. 4. 2. 3 Mobile cranes on wheeled off-road chassis
- 17. 4. 2. 4 Road mobile cranes of truck style
- 17. 4. 2. 5 Mobile cranes on belt chassis
- 17. 4. 2. 6 Railway cranes
- 17. 4. 3 Special cranes and lifting devices
- 17. 4. 3. 1 Jacks and pulley blocks
- 17. 4. 3. 2 Building lifts
- 17. 4. 3. 3 Crabs
- 17. 4. 4 Hangers for cranes
- 17. 4. 5 Remote control cranes
- 17. 4. 6 Lifting slings for the lifting and hanging of weights
- 17. 4.99 Lifting means in the building industry - other

17. 5 Machines and devices for construction and maintenance of roads and lines

- 17. 5. 1 Machines and devices for laying underbeds
- 17. 5. 1. 1 Stabilized ground cutters
- 17. 5. 1. 2 Stabilized sets (road mix, plant mix)
- 17. 5. 2 Machines and devices for production, transport and processing of asphalt mixes
- 17. 5. 2. 1 Packing sets of all types
- 17. 5. 2. 2 Heating tanks and their components
- 17. 5. 2. 3 Asphalt containers of all types
- 17. 5. 2. 4 Finishers for laying of precoated mixes and their components
- 17. 5. 2. 5 Means of transport for precoated mixes transport
- 17. 5. 2. 6 Machines and devices for production, transport and laying of cast asphalt
- 17. 5. 2. 7 Machines and devices for production, transport and atomization of emulsion mixes
- 17. 5. 3 Machines and devices for cement road production
- 17. 5. 3. 1 Spreaders of stone and concrete mixes
- 17. 5. 3. 2 Finishers for laying of concrete mixes and their components
- 17. 5. 3. 3 Sets with sliding walles and their components
- 17. 5. 3. 4 Joint cutters
- 17. 5. 3. 5 Joint fillers
- 17. 5. 4 Special sets for production and laying of overground profiles (concrete, others)
- 17. 5. 5 Machines and devices for common road repairs and maintenance
- 17. 5. 5. 1 Bitumen sprayers
- 17. 5. 5. 2 Bitumen containers
- 17. 5. 5. 3 Road gritters
- 17. 5. 5. 4 Device for crack repairs
- 17. 5. 6 Machines and devices for mid repairs and reconstructions of roads
- 17. 5. 6. 1 Road cutters
- 17. 5. 6. 2 Sets for heat repairs of bitumen surfaces (repawer, remixer)
- 17. 5. 6. 3 Impact deteriorating hammers
- 17. 5. 6. 4 High-pressure cutting with water stream
- 17. 5. 6. 5 Sewerage covers jacks
- 17. 5. 7 Machines and devices for summer road maintenance
- 17. 5. 7. 1 Marking machines
- 17. 5. 7. 2 Sprinkling block sprayers
- 17. 5. 7. 3 Road sweepers
- 17. 5. 7. 4 Device for road shoulder cleaning
- 17. 5. 8 Machines and devices for winter road maintenance
- 17. 5. 8. 1 Road gritters of inert and chemical materials
- 17. 5. 8. 2 Snow removing machines
- 17. 5. 9 Machines and devices for construction and maintenance of railway superstructures
- 17. 5.10 Machines and devices for water stream construction
- 17. 5.99 Machines and devices for construction and maintenance of roads and lines - other

17. 6 Machines and devices for the foundation of buildings

- 17. 6. 1 Pile drivers and extractors
- 17. 6. 2 Large-diameter boring rigs
- 17. 6. 3 Sets for excavation of diaphragm walls
- 17. 6. 4 Machines and devices for injection works
- 17. 6. 5 Machines and devices for anchorage
- 17. 6.99 Machines and devices for the foundation of buildings - other

17. 7 Machines and devices for underground and tunnel works

- 17. 7. 1 Machines and devices for trenchless pipe laying
- 17. 7. 2 Sets for piping extrusion

- 17. 7. 3 Sets for micro tunnel boreholes
- 17. 7. 4 Sets for driving tunnels and mine galleries
- 17. 7. 5 Machines for shaft and ditch excavations
- 17. 7. 6 Sets for renovation and maintenance of underground sewer systems
- 17. 7.99 Machines and devices for underground and tunnel works - other

17. 8 Power-producing sources in the building industry

- 17. 8. 1 Compressors
 - 17. 8. 1. 1 Movable piston compressors
 - 17. 8. 1. 2 Movable screw compressors
- 17. 8. 2 Electrical power centers
 - 17. 8. 2. 1 Mobile power centers
 - 17. 8. 2. 2 Stationary power centers
- 17. 8. 3 Power distribution site devices
- 17. 8. 4 Hot-air sets
 - 17. 8. 4. 1 Movable hot-air sets
- 17. 8. 5 Steam generators
- 17. 8. 6 Dehumidifiers, wall dehumidifiers
- 17. 8. 7 Special welding sets (for piping etc.)

17. 9 Machines and devices for final and craft works in the building industry

- 17. 9. 1 Machines and devices for machining and partition of building materials
 - 17. 9. 1. 1 Boring of building materials
 - 17. 9. 1. 1. 1 Hand electric drilling machines without or with jack
 - 17. 9. 1. 1. 2 Bore hammers and their tools
 - 17. 9. 1. 1. 3 Combined hammers for boring and cutting and their tools
 - 17. 9. 1. 1. 4 Electric hand tool with accumulator feeding
 - 17. 9. 1. 2 Cutting of building materials
 - 17. 9. 1. 2. 1 Electric circular and angle saws
 - 17. 9. 1. 2. 2 Electric circular saw benches
 - 17. 9. 1. 2. 3 Portable circular saws with petrol or hydraulic engines
 - 17. 9. 1. 2. 4 Circular buzz saws for timber
 - 17. 9. 1. 2. 5 Chain saws
 - 17. 9. 1. 2. 6 Sets for cutting by water beam
 - 17. 9. 1. 2. 7 Drilling diamond tools
 - 17. 9. 1. 3 Tools for shearing and punching of building materials
 - 17. 9. 1. 3. 1 Hand electric shears for sheet punching
 - 17. 9. 1. 4 Sets for machining of wood and plastics
- 17. 9. 2 Joining and assembly of metal and non-metallic piping
 - 17. 9. 2. 1 Nut and tube threading machine
 - 17. 9. 2. 2 Pipe bending machine
 - 17. 9. 2. 3 Devices for welding and machining of plastic piping
- 17. 9. 3 Production and treatment of floors and surfaces
 - 17. 9. 3. 1 Units for the production, transport and storage of damp concrete mixes (mixocret pneumix etc.)
 - 17. 9. 3. 2 Units for vacuuming of concrete surfaces
 - 17. 9. 3. 3 Units for finishing and smoothing of concrete surfaces
 - 17. 9. 3. 3. 1 Vibrating laths (beams)
 - 17. 9. 3. 3. 2 Motor trowelling machines
 - 17. 9. 3. 4 Cleaning and reconstruction of floors and surfaces
 - 17. 9. 3. 4. 1 Cleaning devices for floors and surfaces of all types
 - 17. 9. 3. 4. 2 Units for grinding and flat shaping of floors and surfaces of all types
 - 17. 9. 3. 4. 3 Units for the reconstruction of concrete and other surfaces
 - 17. 9. 3. 5 Machines and devices for cutting of cement and aggregate tiles and facings
 - 17. 9. 3. 5. 1 Hand and hydraulic presses
 - 17. 9. 3. 5. 2 Circular portable electric saws
 - 17. 9. 3. 5. 3 Devices for hole punching in tiles and facings
 - 17. 9. 3. 6 Devices for roughening and seaming of concrete and bitumen surfaces
 - 17. 9. 3. 6. 1 Circular saws
 - 17. 9. 3. 6. 2 Diamond cut disks, bits, drills, drill bits etc.
 - 17. 9. 3. 7 Devices for finish and welding of plastic floorings and insulation covers
 - 17. 9. 3. 8 Tools for floors placing and finishing
- 17. 9. 4 Walling and treatment of construction masonry
 - 17. 9. 4. 1 Equipment for the production, transportation and application of mortar (conveyors, mixers, pumps, etc.)
 - 17. 9. 4. 2 Sets for spraying of concrete mixes
 - 17. 9. 4. 3 Devices for motor operated mortar smoothing
 - 17. 9. 4. 4 Sets for masonry machining and facade shaping
- 17. 9. 5 Joining and anchoring technique
 - 17. 9. 5. 1 Sets for dowel and anchor setting by boring and anchoring materials

- 17. 9. 5. 2 Sets for anchor embedding by shot firing and anchoring materials
- 17. 9. 5. 3 Joining technique in wooden structures
- 17. 9. 5. 4 Pneumatic fastener and nail machines
- 17. 9. 6 Painter's and lacquerer's works
- 17. 9. 6. 1 Equipment for painter's works
- 17. 9. 6. 2 Spraying sets for lacquerer's works
- 17. 9. 6. 3 Devices for paint stripping
- 17. 9. 7 Devices for works in heights on facades and roofs
- 17. 9. 7. 1 Devices for plumber's roof works
- 17. 9. 7. 2 Devices for carpentry works
- 17. 9. 8 Machines and devices for stonemasonry

17.10 Demolition and recycling of building materials

- 17.10. 1 Devices for hand masonry and object demolition
- 17.10. 1. 1 Devices for hand masonry and object demolition (diamond method, demolition and cutting hammers etc.)
- 17.10. 2 Devices for demolition of masonry and constructions by mechanical means
- 17.10. 2. 1 Demolition and wire nippers
- 17.10. 2. 2 Blade demolition and spalling devices
- 17.10. 2. 3 Cut shear dies
- 17.10. 2. 4 Punching die nippers
- 17.10. 2. 5 Bearing impact demolition hammers
- 17.10. 2. 6 Impact shears for demolition
- 17.10. 3 Grading and preliminary grinding of materials from demolitions and dumping areas
- 17.10. 3. 1 Coarse grading by die claws
- 17.10. 3. 2 Coarse grading by die claws on mobile machines
- 17.10. 3. 3 Special units for mechanical grading of building rubbish
- 17.10. 4 Chutes and discharge chutes to rubble
- 17.10. 5 Sets for recycling of building materials
- 17.10. 6 Sets for processing of concrete mixture rests
- 17.10. 7 Sets for processing of building material rests from bitumen covers
- 17.10.99 Devices for recycling of building materials - other

17.11 Hand tools

- 17.11. 1 Trowel
- 17.11. 2 Pitchers (also jiggers)
- 17.11. 3 Mattocks (double-pitch-faced)
- 17.11. 4 Painters' rollers
- 17.11. 5 Floats, spattles
- 17.11. 6 Bits (groovers)
- 17.11. 7 Brushes
- 17.11. 8 Scoops
- 17.11. 9 Hammers
- 17.11.10 Saws
- 17.11.11 Axes (also grainers)
- 17.11.12 Filling knives
- 17.11.13 Hand cutters for facings and tiles
- 17.11.99 Hand tools - other
- 17.99 Building machines - other

18 MACHINES FOR MANUFACTURE AND TREATMENT OF BUILDING MATERIALS AND PRODUCTS

18. 1 Crumbling devices

- 18. 1. 1 Crushers
- 18. 1. 2 Mills

18. 2 Treatment devices

- 18. 2. 1 Sorters, vibrating separators
- 18. 2. 2 Washers
- 18. 2. 3 Magnetic separators
- 18. 2. 4 Screens
- 18. 2. 5 Filters
- 18. 2. 6 Granulators
- 18. 2. 7 Filter presses

18. 3 Mixing devices

- 18. 3. 1 Mixers
- 18. 3. 2 Mixer trucks

18. 4 Balancing devices (dosers, feeders, scales)

18. 5	Shaping devices
18. 5. 1	Pressers and vibrating pressers
18. 5. 2	Machines manufacturing concrete components
18. 6	Driers
18. 7	Furnaces
18. 8	Machines for surface treatment
18. 8. 1	Presses for surface finishing
18. 8. 2	Coating devices
18. 8. 3	Glazing devices (for glazing by dipping, spraying, electrostatic etc.)
18. 8. 4	Decorative devices (silk screen printing machines etc.)
18. 8. 5	Devices for grinding and polishing (grinding arm)
18. 9	Gripping technique for stonemason's works
18.10	Transportation, handling and warehousing equipment, scales
18.11	Automatization, robotization and technological procedure control
18.12	Machines for manufacture of windows, doors (aluminum, plastics, wooden)
18.13	Machines for manufacture of louvers
18.99	Machines for the manufacture and modification of building materials and products - other

19	CONSTRUCTION AND MINING MACHINERY SERVICES
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20	ASSOCIATIONS, AGENCIES
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