

Product group classification InnoTrans 2024

(from A-Z)

Railway Technology

1. Railbound vehicles for public and freight transport	16
2. Intermodal transport vehicles	16
3. Subassemblies and components	16
4. Service for vehicles	17

Interiors

5. Interiors	17
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Railway Infrastructure

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Public Transport

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8. Transport IT Transport management / Data processing / Information / Communication	19
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Tunnel Construction

11. Tunnel Construction	20
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Product group classification

InnoTrans 2024

(from A-Z)

Railway Technology		
1. Railbound vehicles for public and freight transport	3.2.11 Electromechanical components	3.3.7 Exterior parts
1.1 Public transport rail cars	3.2.12 Energy storage	3.3.8 Exterior claddings
1.1.1 Local and regional public transport rail cars	3.2.13 Energy supply systems	3.3.9 Rail hydraulic systems
1.1.2 Long distance public transport rail cars	3.2.14 Energy meter	3.3.10 Subassembly supports
1.1.3 Motor units and motor coaches	3.2.15 Earthing contacts	3.3.11 Fastening systems
1.2 Freight cars	3.2.16 Driver panels	3.3.12 Lighting systems
1.2.1 Covered wagons	3.2.17 Master controller	3.3.13 Ventilation systems
1.2.2 Loading units	3.2.18 Vehicle control system	3.3.14 Brake linings
1.2.3 Flat wagons	3.2.19 Field bus components	3.3.15 Brake pads
1.2.4 Self-discharging wagons	3.2.20 Floodlight keyboards	3.3.16 Brake disks
1.2.5 Other standard-type rail cars	3.2.21 Filling level measuring technology	3.3.17 Braking systems
1.2.6 Special-purpose rail cars	3.2.22 Handheld lamps	3.3.18 Front fairings
1.2.7 Tank wagons	3.2.23 Inductive Components	3.3.19 Gaskets
1.3 Locomotives	3.2.24 Cables and lines	3.3.20 Bogies
1.4 Magnetic levitation trains	3.2.25 Cable protection	3.3.21 Bogie pivot centre plates
1.5 Narrow-gauge railway vehicles	3.2.26 Cassettes	3.3.22 Compressed air technology
1.6 Special-purpose cars	3.2.27 Battery chargers	3.3.23 Thrust collars for tramway bogies
1.7 Rack railway-train	3.2.28 Charging rectifiers	3.3.24 Rail tyres
1.8 Other	3.2.29 Power switches and switchgear	3.3.25 Passenger counting systems
2. Intermodal transport vehicles	3.2.30 Circuit boards	3.3.26 Vehicle cabins
2.1 Other	3.2.31 Control systems	3.3.27 Springs / Spring systems
3. Subassemblies and components	3.2.32 Tilting systems	3.3.28 Radio remote control systems
3.1 Driving gear	3.2.33 Registration and display systems	3.3.29 Clevis guides
3.1.1 Exhaust gas silencer	3.2.34 Series terminals	3.3.30 Casing systems
3.1.2 Driving systems and electronics	3.2.35 Relays	3.3.31 Articulations
3.1.3 Traction motors	3.2.36 Switching gear	3.3.32 Rocker bearings
3.1.4 Vehicle lubrication	3.2.37 Switches	3.3.33 Joint rod sockets
3.1.5 Generators	3.2.38 Metal contacts	3.3.34 Cardan shafts
3.1.6 Transmissions	3.2.39 Switch cabinets and accessories	3.3.35 Friction bearings
3.1.7 Hydraulic drive systems for railway vehicles	3.2.40 Fuses and accessories	3.3.36 Cast metal wheels
3.1.8 Motors / Engines	3.2.41 Special-purpose electric machines	3.3.37 Integrated subassemblies
3.1.9 Traction motor ventilation	3.2.42 Connectors	3.3.38 Air ducts
3.1.10 Traction motor housing	3.2.43 Control components	3.3.39 Carbon brushes
3.1.11 Traction motor preheaters	3.2.44 Control cubicles	3.3.40 Carbon strips
3.1.12 Motor oil refilling systems	3.2.45 Current collectors	3.3.41 Compressors
3.1.13 Pneumatic material	3.2.46 Power generating sets	3.3.42 Capacitors
3.1.14 Wheelset gear sets	3.2.47 Current transformers	3.3.43 Ball bearings
3.1.15 Lubricating systems	3.2.48 Traction current converters & control systems	3.3.44 Cooling systems
3.1.16 System technology	3.2.49 Transformers	3.3.45 Couplers
3.2 Energy / Electrotechnology	3.2.50 Pantographs	3.3.46 Couplings
3.2.1 Automation technology	3.2.51 Overvoltage safety systems	3.3.47 Coupling adaptors
3.2.2 Battery holders	3.2.52 Inverters	3.3.48 Bearing housings
3.2.3 Batteries	3.2.53 Interconnection systems	3.3.49 Profiles for lighting sittings
3.2.4 Battery isolators	3.2.54 Converters	3.3.50 Air filter
3.2.5 Ventilation / evacuation systems	3.2.55 Resistances	3.3.51 Tilting technology
3.2.6 Operating and control panels	3.3 Vehicle components and -systems	3.3.52 Impact protection modules
3.2.7 DC / DC converters	3.3.1 Exhaust filtering systems	3.3.53 Sections
3.2.8 Diagnosing equipment	3.3.2 Exhaust silencer	3.3.54 Buffer
3.2.9 Compressed air supply	3.3.3 Axle guard sidebearer liners	3.3.55 Radar technology
3.2.10 Pressure measuring equipment	3.3.4 Axle guard sidebearer guides	3.3.56 Wheelsets
	3.3.5 Acoustic systems	3.3.57 Wheelset pumps
	3.3.6 Armature	3.3.58 Friction pads for railway vehicles
		3.3.59 Rescue tools
		3.3.60 Sooty particle filters
		3.3.61 Rail brakes

3.3.62 Hoses

3.3.63 Locks and fittings

3.3.64 Welded assemblies, underfloor-components

3.3.65 Vibration absorbers

3.3.66 Sensors

3.3.67 Self-locking nuts

3.3.68 Special sections for rail car construction

3.3.69 Wheel flange lubrication systems

3.3.70 Shock absorbers

3.3.71 Flexible shunt assemblies

3.3.72 Testing systems

3.3.73 Thermocouples

3.3.74 Gangway installations

3.3.75 Valves

3.3.76 Connection systems

3.3.77 Wiring systems

3.3.78 Locking technology and systems

3.3.79 Haunch, air ducts and flow sections

3.3.80 Car bodies

3.3.81 Antifriction bearings

3.3.82 Resistance thermometers

3.3.83 Push / Pull devices

3.3.84 Coupler carriers

3.4 Materials

3.4.1 Bent components in aluminium / steel

3.4.2 Insulating materials

3.4.3 Sealing materials

3.4.4 Flat products

3.4.5 Rubber articles

3.4.6 Rubber-metal connections

3.4.7 Cast parts

3.4.8 Insulation materials

3.4.9 Adhesives

3.4.10 Structural foams

3.4.11 Plastics

3.4.12 Coating

3.4.13 Sound insulation materials

3.4.14 Melamine resin foam

3.4.15 Upholstery materials

3.4.16 Foams

3.4.17 Lubricants

3.4.18 Protective films

3.4.19 Special light-weight insulating materials

3.4.20 Steel products

3.4.21 Composite materials

3.4.22 Water varnish

3.4.23 Materials for lightweight and sandwich construction

3.5 Other

4. Service for vehicles

4.1 Maintenance

4.1.1 Exhaust systems

4.1.2 Re-railing equipment and systems

4.1.3 Sand filling systems

4.1.4 Bogie testing plants

4.1.5 Corner force measuring equipment

4.1.6 Disposal systems

4.1.7 Replacement parts

4.1.8 Lifting devices for tracked vehicles

4.1.9 Inspection devices and systems

4.1.10 Maintenance systems

4.1.11 Varnishing devices

4.1.12 Measuring equipment and systems

4.1.13 Wheel force measurement systems

4.1.14 Wheelset treatment

4.1.15 Wheelset diagnostic systems

4.1.16 Category of maintenance

4.1.17 Foils / films

4.1.18 Testing devices and systems

4.1.19 Maintenance machines

4.1.20 Workshop equipment

4.2 Cleaning

4.2.1 Vehicle washing systems

4.2.2 Surface treatment

4.2.3 Cleaning equipment / technology

4.2.4 Special cleaning services

4.2.5 Waste-water-treatment

4.3 Refurbishment

4.3.1 Expertises

4.3.2 Restoration

4.3.3 Damage repair and management

4.4 Services

4.4.1 Railway application testing

4.4.2 Design

4.4.3 Commissioning

4.4.4 Engineering services

4.4.5 Maintenance management systems

4.4.6 Marking

4.4.7 Systems analysis

4.4.8 Transport of railway vehicles

4.4.9 Workshop services

4.5 Other

Interiors

5. Interiors

5.1 Vehicle equipment

5.1.1 Handicapped accessible equipment

5.1.2 Floor coverings

5.1.3 Window systems

5.1.4 Driver consoles

5.1.5 Luggage racks

5.1.6 Stay bars

5.1.7 Hand-held lamps

5.1.8 Interior furnishings

5.1.9 Lamps

5.1.10 Upholstery systems

5.1.11 Roller blind systems

5.1.12 Seats and seating systems

5.1.13 Sanitary equipment

5.1.14 Sanitary cubicles

5.1.15 Textiles

5.1.16 Glazing systems

5.2 Finishings / Information / Air conditioning / Security

5.2.1 Anti-pinch systems

5.2.2 Fire protection isolation

5.2.3 Flooring systems

5.2.4 Fans for railway components

5.2.5 Heating systems

5.2.6 Information- and advertising systems

5.2.7 Interior design systems

5.2.8 Interior lining

5.2.9 Installation equipment

5.2.10 Cabin air ventilation / -climatisation

5.2.11 Air-conditioning systems

5.2.12 Emergency systems

5.2.13 Sanitary systems

5.2.14 Door furniture

5.2.15 Door opener push buttons

5.2.16 Door controls

5.2.17 Door systems

5.2.18 Surveillance systems

5.2.19 Detrainment systems

5.3 Travel Catering & Comfort Services

5.3.1 Station catering

5.3.2 Accessories / Amenities

5.3.3 Catering service provider

5.3.4 Beverages

5.3.5 Hygiene

5.3.6 Kitchen equipment

5.3.7 Refrigeration and counter systems

5.3.8 Food

5.3.9 Trolleys

5.3.10 Service equipment

5.3.11 Food dispensing

5.3.12 Food / Beverage vending machines

Railway Infrastructure

6. Infrastructure / Railway Construction

6.1 Construction work

6.1.1 Electrical power systems

6.1.2 Overhead contact line

6.1.3 Building construction

6.1.4 Civil engineering and construction

6.1.5 Maintenance

6.1.6 Control and signalling technology

6.1.7 Superstructures

6.1.8	Permanent way welding technology	6.5.5	Third rail	6.6.3	Operating control engineering
6.1.9	Specialised civil engineering work	6.5.6	End-of-track buffers	6.6.4	Earth terminals for track construction
6.1.10	Telecommunications	6.5.7	Electric points (switch) heater	6.6.5	Remote control equipment
6.1.11	Civil and underground engineering	6.5.8	Protection against vibrations	6.6.6	Cable ducts
6.1.12	Tunnel and bridge construction	6.5.9	Catenaries	6.6.7	Control systems
6.2	<u>Planning and monitoring of construction works</u>	6.5.10	Power line masts	6.6.8	Communications technology
6.2.1	Tendering and tender evaluation	6.5.11	Panel track laying	6.6.9	Switchgears in earth systems
6.2.2	Site exploration / materials testing	6.5.12	Surface stabilisation systems	6.6.10	Signalling systems
6.2.3	Work logistics	6.5.13	Wheel flat detector	6.6.11	Warning systems for tracklaying sites
6.2.4	Supervision of works	6.5.14	Handrails	6.7	<u>Overhead line equipment</u>
6.2.5	Planning and control	6.5.15	Geotextiles	6.7.1	Wires and cables
6.2.6	Planning of superstructure, underground, and civil engineering works	6.5.16	Steel grating	6.7.2	Engineering consultant
6.2.7	Planning of signalling and control systems	6.5.17	Concrete track and points sleepers	6.7.3	Installation
6.2.8	Planning of electric power supply	6.5.18	Siding track facilities	6.7.4	Maintenance
6.2.9	Planning review	6.5.19	Car retarder	6.7.5	Insulators and section insulators
6.2.10	Project planning	6.5.20	Re-ballasting of tracks	6.7.6	Clamps and cast parts
6.2.11	Survey	6.5.21	Track bed systems	6.7.7	Tensioning devices
6.3	<u>Railway track machinery, equipment and tools</u>	6.5.22	Track circuits	6.7.8	Suspension wire components
6.3.1	Excavators	6.5.23	Track systems	6.7.9	Overhead line measuring systems
6.3.2	Ballast cleaning machines	6.5.24	Hot box detection system	6.7.10	Overhead installations
6.3.3	Overhead line vehicles	6.5.25	Insulation for railway catenary	6.7.11	Overhead line tests
6.3.4	Equipment	6.5.26	Insulating joints	6.7.12	Steady arms and suspensions
6.3.5	Track cars	6.5.27	Isolated fastenings	6.7.13	Tools
6.3.6	Track recording cars	6.5.28	Cable channels	6.8	<u>Other services</u>
6.3.7	Track laying and track construction machines	6.5.29	Long material equipment for road transport of rails	6.8.1	Health and safety
6.3.8	Heavy machinery and tower cranes	6.5.30	Long rails	6.8.2	Protection of construction sites
6.3.9	Light machines	6.5.31	Mass-Spring-Systems	6.8.3	Site monitoring
6.3.10	Measuring equipment and -systems	6.5.32	Plotting paper	6.8.4	Electromagnetic compatibility
6.3.11	Rail milling machines	6.5.33	Measuring equipment	6.8.5	Platform covering
6.3.12	Rail-carrying train	6.5.34	Buffer stops	6.8.6	Inspection of tracks and points (switches)
6.3.13	Grinding machines	6.5.35	Marshalling equipment	6.8.7	Recycling of building materials
6.3.14	Grinding tools	6.5.36	Noise deadening	6.8.8	Machine repair
6.3.15	Ballast regulating machines	6.5.37	Track switchgear	6.8.9	Safety during hazardous cargo transport
6.3.16	Safety tools	6.5.38	Rails	6.8.10	Ecological surveys
6.3.17	Ballast tamping machines	6.5.39	Rail guards / cow-catchers	6.8.11	Survey
6.3.18	Track maintenance vehicles	6.5.40	Rail fastening equipment	6.9	<u>Other</u>
6.3.19	Track warning systems for machinery	6.5.41	Rail lubrication systems	Public Transport	
6.3.20	Switch inspection systems	6.5.42	Rail link units		
6.3.21	Wagons for turnout transport	6.5.43	Lubricants		
6.3.22	Road-rail vehicles	6.5.44	Ballast		
6.4	<u>Station buildings</u>	6.5.45	Railroad ties (sleepers)		
6.4.1	Platforms	6.5.46	Vibration damping		
6.4.2	Platform edges	6.5.47	Safety engineering		
6.4.3	Platform systems	6.5.48	Special products for transport route construction		
6.4.4	Guide systems for blind	6.5.49	Electric power supply		
6.4.5	Air conditioning equipment	6.5.50	Protection systems		
6.5	<u>Technical equipment / Building materials</u>	6.5.51	Wearing- and sliding plastics, insulation plastics		
6.5.1	Axle counters	6.5.52	Points (switches) and crossings		
6.5.2	Construction site lighting	6.5.53	Points (switch) mechanisms		
6.5.3	Friction buffer stops	6.5.54	Points (switch) heaters		
6.5.4	Bridge girders	6.5.55	Points (switch) lubricating equipment		
		6.5.56	Wayside Train Monitoring Systems		
		6.5.57	Train preheating equipment		
		6.5.58	Tongue rolls for switches		
		6.5.59	Area lighting		
		6.5.60	Fibre Optic Sensing		
		6.6	<u>Signalling and control systems</u>		
		6.6.1	Level crossing systems		
		6.6.2	Acoustics		
				7.	Public Transport / Fixed structures
				7.1	<u>Streetbound vehicles for local and regional public transport</u>
				7.2	<u>Station and stop premises</u>
				7.2.1	Dispatch facilities
				7.2.2	Lifts
				7.2.3	Station furnishings
				7.2.4	Station / telephone box doors
				7.2.5	Platform lighting
				7.2.6	Station dividing walls / doors
				7.2.7	Counters
				7.2.8	Passenger counting systems
				7.2.9	Time-table and info-showcases
				7.2.10	Bicycle parking facilities
				7.2.11	Moving pavements
				7.2.12	Escalators
				7.2.13	Stop furnishings
				7.2.14	Process control systems
				7.2.15	Furnishing for control stations

7.2.16	Poster showcases	8.2.3	Journey analysis systems	10.	Services
7.2.17	Luggage locker facilities	8.2.4	Geo information systems	10.1	<u>Institutions / Media / Transport companies</u>
7.2.18	Customer service	8.2.5	Efficiency control	10.1.1	Authorities
7.2.19	System integrators	8.3	<u>Components for information technology</u>	10.1.2	Industrial parks
7.2.20	Roofing systems	8.3.1	Sensors	10.1.3	Freight traffic companies
7.2.21	Clock systems	8.4	<u>Communication systems</u>	10.1.4	Freight traffic centres
7.2.22	Shelters	8.4.1	Digital radio systems	10.1.5	Passenger transport companies
7.2.23	Path control systems	8.4.2	Interphone systems	10.1.6	Technology and incubation units
7.2.24	Advertisement systems	8.4.3	Internet systems	10.1.7	Associations
7.2.25	Weather protection	8.4.4	Mounting systems for train radio equipment	10.1.8	Organisations
7.3	<u>Passenger information systems</u>	8.4.5	Train radio systems	10.1.9	Joint transport authorities
7.3.1	Display-cases	8.5	<u>Management systems</u>	10.1.10	Publishing houses
7.3.2	GPS-controlled time displays	8.5.1	Plant management systems	10.1.11	Business development
7.3.3	Infotainment systems	8.5.2	Depot management	10.1.12	Science, research and development
7.3.4	Interactive Voice Response Systems (IVR)	8.5.3	Facility management	10.1.13	Railway infrastructure companies
7.3.5	LED displays	8.5.4	Infrastructure management systems	10.2	<u>Services in the transport industry</u>
7.3.6	Plasma displays	8.5.5	Lean production	10.2.1	Health and safety
7.3.7	Coach controllers	8.6	<u>Operation - Rail systems</u>	10.2.2	Recruitment agency
7.3.8	Seat reservation systems	8.7	<u>Location and navigation systems</u>	10.2.3	Services shop floor level
7.3.9	System controllers	8.8	<u>Planning systems</u>	10.2.4	Documentation
7.3.10	TFT flat panel displays	8.8.1	Time-table planning	10.2.5	Passenger survey
7.3.11	TFT-LCD displays	8.8.2	Vehicle deployment	10.2.6	Financial services
7.4	<u>Ticket management</u>	8.8.3	Optimisation	10.2.7	Education and training
7.4.1	Settlement systems	8.8.4	Personnel- and service planning	10.2.8	Risk protection
7.4.2	Board computer	8.8.5	Resource planning (personnel, wagons, locomotives)	10.2.9	Trade
7.4.3	Chip cards	8.8.6	Roster planning	10.2.10	Engineering services
7.4.4	Revenue management	8.9	<u>Safety and control engineering</u>	10.2.11	Leasing
7.4.5	Electronic payment systems	8.9.1	Cyber security	10.2.12	Marketing
7.4.6	Ticket defacing	8.9.2	Passenger alarm systems	10.2.13	Testing services
7.4.7	Ticket issuing	8.9.3	Computer-assisted operations control system	10.2.14	Recycling
7.4.8	Mobile ticketing	8.9.4	Video surveillance systems (CCTV)	10.2.15	Expert services
7.4.9	RFID media	8.10	<u>Software / Software development</u>	10.2.16	Insurances
7.4.10	Rate management	8.10.1	Computer-based training programme	10.2.17	Certification
7.4.11	Access systems	8.10.2	E-Procurement	10.3	<u>Analysis / Consulting / Development / Planning</u>
7.5	<u>Parking area management</u>	8.10.3	Analyses and calculations relating to the dynamics of vehicle movement	10.3.1	Execution planning
7.5.1	Parking permits	8.10.4	Software for project management	10.3.2	Consultancy
7.6	<u>Cleaning / Waste Disposal</u>	8.11	<u>Traffic Management</u>	10.3.3	Design
7.6.1	Services	8.11.1	Traffic data determination	10.3.4	Engineering
7.6.2	Cleaning and waste disposal equipment	8.11.2	Traffic information systems	10.3.5	Complete solution for planning and design
7.6.3	Washing and toilet facilities	8.11.3	Traffic engineering	10.3.6	Noise and vibration reduction
7.7	<u>Safety and control</u>	8.11.4	Traffic control systems	10.3.7	Studies, conceptual and system planning
7.7.1	Security	8.12	<u>Other</u>	10.3.8	Project planning
7.7.2	Fire detection systems	9.	Freight traffic logistics	10.3.9	Simulation / Calculation of power networks
7.7.3	Fire protection systems	9.1	<u>Fleet management systems</u>	10.3.10	Systemanalysis / -development
7.7.4	Fire extinguishing systems	9.2	<u>Hazardous cargo transports</u>	10.4	<u>Realisation / Project-Management</u>
7.7.5	Supervising services	9.3	<u>Identification systems</u>	10.4.1	Electric project management
7.7.6	Safety engineering	9.4	<u>Combined transport</u>	10.4.2	Contract and claims-, project and construction management
7.7.7	Monitoring systems	9.5	<u>RFID tracking</u>	10.5	<u>Other</u>
7.8	<u>Clothing / Workwear</u>	9.6	<u>Shipment tracking systems</u>	10.6	<u>Mobility+</u>
7.8.1	Headgear	9.7	<u>Loading / Unloading systems and organisation</u>	10.6.1	Autonomous driving
7.8.2	Shoes	9.8	<u>Interchangeable containers, changing systems</u>	10.6.2	Bike sharing
7.8.3	Protective clothing	9.9	<u>Swap bodies, systems</u>	10.6.3	Car sharing
7.8.4	Textiles	9.10	<u>Other</u>	10.6.4	Chauffer-Service
7.9	<u>Other</u>			10.6.5	Digital mobility platforms
8.	Transport IT			10.6.6	First/last mile
	Transport management / Data processing / Information / Communication				
8.1	<u>E-Business</u>				
8.2	<u>Information technology / quality assurance systems</u>				
8.2.1	Testing and analysis systems				
8.2.2	Real-time statistics				

- 10.6.7 E-Scooter sharing
- 10.6.8 Car rental
- 10.6.9 Mobility apps
- 10.6.10 Ridepooling
- 10.6.11 Rideselling
- 10.6.12 Ridesharing
- 10.6.13 Taxiservices
- 10.6.14 Vertical Take-Off and Landing VTOL
- 10.6.15 Other
- 10.6.16 Robotics

Tunnel Construction

11. Tunnel Construction

11.1 Construction machines, -parts and components

- 11.1.1 Equipment for removing excavated material
- 11.1.2 Power plant
- 11.1.3 Rock-crushing equipment
- 11.1.4 Building site equipment
- 11.1.5 Drilling platforms, supports and accessories
- 11.1.6 Hammer drill
- 11.1.7 Drilling steels and rock drilling bits
- 11.1.8 Drilling derricks
- 11.1.9 Moisture separators
- 11.1.10 Conveyor belt and -systems
- 11.1.11 Geotechnical instruments
- 11.1.12 Track transport and carrying devices
- 11.1.13 Pick wheels
- 11.1.14 Hydraulic excavators & breakers
- 11.1.15 Injection devices and accessories
- 11.1.16 Injection packer and accessories
- 11.1.17 Injection hose systems
- 11.1.18 Cables and accessories
- 11.1.19 Compressors and pneumatical tools
- 11.1.20 Cranes / Lifting equipment
- 11.1.21 Machines and systems for track construction
- 11.1.22 Microtunnelling and trenchless headings
- 11.1.23 Piling equipment / systems
- 11.1.24 Pumps
- 11.1.25 Shaft boring devices
- 11.1.26 Lining and scaffolding
- 11.1.27 Excavating machines for slurry trenches
- 11.1.28 Probe / diamond core cutters
- 11.1.29 Rail-head equipment / drilling jibs
- 11.1.30 Transport- and feed systems
- 11.1.31 Tunnel boring machines
- 11.1.32 Full face TBMs
- 11.1.33 Grouting, pouring and injection machines
- 11.1.34 Heading shields
- 11.1.35 Capstans
- 11.1.36 Crushing machines
- 11.1.37 Access equipment

11.2 Finishing

- 11.2.1 Support devices / support arches / steel supports / lattice girders
 - 11.2.2 Compensating plate
 - 11.2.3 Building industry
 - 11.2.4 Fastening systems
 - 11.2.5 Lighting systems
 - 11.2.6 Concrete vibrators
 - 11.2.7 Ground freezing
 - 11.2.8 Ground stabilisation
 - 11.2.9 Improvement of land
 - 11.2.10 Electrification
 - 11.2.11 Electrotechnology
 - 11.2.12 Dedusting systems
 - 11.2.13 Drainage and pump systems
 - 11.2.14 Rock bolts / anchors
 - 11.2.15 Gas-extraction equipment / systems
 - 11.2.16 Impregnate / Sealing of facing
 - 11.2.17 Air conditioning / ventilation
 - 11.2.18 Air conduction systems
 - 11.2.19 Air cleaning / waste-air disposal
 - 11.2.20 Technical engineering and terotechnology
 - 11.2.21 Relining
 - 11.2.22 Pipes and pipe connections
 - 11.2.23 Shaft sinking
 - 11.2.24 Shaft linings
 - 11.2.25 Slurry walls, shields and trenches
 - 11.2.26 Drill-and-blast tunnelling
 - 11.2.27 Tunnel supports
 - 11.2.28 Power systems
 - 11.2.29 Tunnel coatings
 - 11.2.30 Tunnel membranes, water stops
 - 11.2.31 Planking
 - 11.2.32 Reinforcement and tensioning device
 - 11.2.33 Gates and doors
- #### 11.3 Building and other materials
- 11.3.1 Concrete
 - 11.3.2 Bitumen
 - 11.3.3 Injection products
 - 11.3.4 Gypsum
 - 11.3.5 Lime
 - 11.3.6 Gravel
 - 11.3.7 Mortar
 - 11.3.8 Sand
 - 11.3.9 Foam and polymeres
 - 11.3.10 Ballast
 - 11.3.11 Explosives
 - 11.3.12 Shotcrete / Concrete additives
 - 11.3.13 Clay
 - 11.3.14 Grouting materials
 - 11.3.15 Cement and additives
- #### 11.4 Maintenance
- 11.4.1 Preservation, decontamination, backfitting
 - 11.4.2 Hydraulic service equipment
 - 11.4.3 Lubricants
 - 11.4.4 Tunnel maintenance
- #### 11.5 Safety features
- 11.5.1 Safety at work
 - 11.5.2 Site safety
 - 11.5.3 Fire protection

- 11.5.4 Protection against dangers
 - 11.5.5 Control systems
 - 11.5.6 Measurement / Examination / Control and test equipment
 - 11.5.7 Personal safety
 - 11.5.8 Safety equipment / -systems
 - 11.5.9 Monitoring- / Warning- / Alarm systems
 - 11.5.10 Safety lighting
 - 11.5.11 Escape route doors
 - 11.5.12 Fire protection doors
- #### 11.6 Communication
- 11.6.1 Radio systems
 - 11.6.2 Interphone systems
 - 11.6.3 Internet systems
 - 11.6.4 Underground communications
 - 11.6.5 Managementsystems
 - 11.6.6 Software
 - 11.6.7 Telecommunication
 - 11.6.8 Video systems
- #### 11.7 Services / Consulting
- 11.7.1 Calls for tenders / drafting and awarding contracts
 - 11.7.2 Construction-site logistics
 - 11.7.3 Authorities
 - 11.7.4 Consultancy
 - 11.7.5 Operational, environmental and safety equipment / systems
 - 11.7.6 Documentation
 - 11.7.7 Trade publications
 - 11.7.8 Financing / Insurance
 - 11.7.9 Geology
 - 11.7.10 Geotechnical services
 - 11.7.11 Engineering services
 - 11.7.12 Expert services
 - 11.7.13 Monitoring harmful substances
 - 11.7.14 System analysis, -development
 - 11.7.15 Technology centre
 - 11.7.16 Associations, organisations
 - 11.7.17 Publishers
 - 11.7.18 Measurement
 - 11.7.19 Contract and claims-, project and construction management
 - 11.7.20 Science, research & development
 - 11.7.21 Certification
- #### 11.8 Clothing / Workwear
- 11.8.1 Geo textiles
 - 11.8.2 Headgear
 - 11.8.3 Protective clothing
 - 11.8.4 Shoes
- #### 11.9 Other