

Product Group Classification InnoTrans 2012

(from A-Z)

Railway Technology

- | | | |
|--|------|-------|
| 1. Railbound vehicles for public and freight transport | page | 17 |
| 2. Intermodal transport vehicles | page | 17 |
| 3. Subassemblies and components | page | 17-18 |
| 4. Service for vehicles | page | 18 |

Interiors

- | | | |
|--------------|------|----|
| 5. Interiors | page | 18 |
|--------------|------|----|

Railway Infrastructure

- | | | |
|--|------|-------|
| 6. Infrastructure / Railway Construction | page | 18-19 |
|--|------|-------|

Public Transport

- | | | |
|--|------|-------|
| 7. Public Transport / Fixed structures | page | 19-20 |
| 8. Transport IT
Transport management / Data processing /
Information / Communication | page | 20 |
| 9. Freight traffic logistics | page | 20 |
| 10. Services | page | 20-21 |

Tunnel Construction

- | | | |
|-------------------------|------|----|
| 11. Tunnel Construction | page | 21 |
|-------------------------|------|----|

Product Group Classification InnoTrans 2012

(from A-Z)

Railway Technology		
1. Railbound vehicles for public and freight transport	3.2.23 Cables and lines	3.3.39 Air-air systems
1.1 Public transport rail cars	3.2.25 Cassettes	3.3.87 Antifriction bearings
1.1.1 Local and regional public transport rail cars	3.2.27 Charging rectifiers	3.3.6 Armature
1.1.2 Long distance public transport rail cars	3.2.29 Circuit boards	3.3.32 Articulations
1.1.3 Motor units and motor coaches	3.2.9 Compressed air supply	3.3.4 Axle guard sidebearer guides
1.2 Freight cars	3.2.41 Connectors	3.3.3 Axle guard sidebearer liners
1.2.1 Covered wagons	3.2.42 Control components	3.3.44 Ball bearings
1.2.3 Flat wagons	3.2.43 Control cubicles	3.3.49 Bearing housings
1.2.2 Loading Units	3.2.30 Control systems	3.3.21 Bogie pivot centre plates
1.2.5 Other Standard-type rail cars	3.2.52 Converters	3.3.20 Bogies
1.2.4 Self-discharging wagons	3.2.44 Current collectors	3.3.16 Brake disks
1.2.6 Special-purpose rail cars	3.2.46 Current transformers	3.3.14 Brake linings
1.2.7 Tank wagons	3.2.7 DC / DC converters	3.3.15 Brake pads
1.3 Locomotives	3.2.8 Diagnosing equipment	3.3.17 Braking systems
1.4 Magnetic levitation trains	3.2.16 Driver panels	3.3.55 Buffer
1.5 Narrow-gauge railway vehicles	3.2.15 Earthing contacts	3.3.43 Capacitors
1.6 Special-purpose cars	3.2.11 Electromechanical components	3.3.86 Car bodies
1.7 Rack railway-train	3.2.14 Energy meter	3.3.40 Carbon brushes
1.8 Other	3.2.12 Energy storage	3.3.41 Carbon strips
2. Intermodal transport vehicles	3.2.13 Energy supply systems	3.3.35 Cardan shafts
2.1 Other	3.2.19 Field bus components	3.3.31 Casing systems
3. Subassemblies and components	3.2.21 Filling level measuring technology	3.3.37 Cast metal wheels
3.1 Driving gear	3.2.20 Floodlights keyboards	3.3.30 Clevis guides
3.1.2 Driving systems and electronics	3.2.39 Fuses and Accessories	3.3.22 Compressed air technology
3.1.1 Exhaust gas silencer	3.2.22 Handheld lamps	3.3.42 Compressors
3.1.5 Generators	3.2.51 Interconnection systems	3.3.81 Connection systems
3.1.7 Hydraulic drive systems for railway vehicles	3.2.50 Inverters	3.3.45 Cooling systems
3.1.15 Lubricating systems	3.2.17 Master controller	3.3.91 Coupler carriers
3.1.12 Motor oil refilling systems	3.2.37 Metal contacts	3.3.46 Couplers
3.1.8 Motors / Engines	3.2.6 Operating and control panels	3.3.48 Coupling adaptors
3.1.13 Pneumatic material	3.2.49 Overvoltage safety systems	3.3.47 Couplings
3.1.16 System technology	3.2.48 Pantographs	3.3.77 Door controls
3.1.10 Traction motor housing	3.2.45 Power generating sets	3.3.75 Door furniture
3.1.11 Traction motor preheaters	3.2.28 Power switches and switchgear	3.3.76 Door opener push buttons
3.1.9 Traction motor ventilation	3.2.10 Pressure measuring equipment	3.3.78 Door systems
3.1.3 Traction motors	3.2.32 Registration and display systems	3.3.1 Exhaust filtering systems
3.1.6 Transmissions	3.2.34 Relays	3.3.2 Exhaust silencer
3.1.4 Vehicle lubrication	3.2.53 Resistances	3.3.8 Exterior claddings
3.1.14 Wheelset gear sets	3.2.33 Series terminals	3.3.7 Exterior parts
3.2 Energy / Electrical	3.2.40 Special-purpose electric machines	3.3.11 Fastening systems
3.2.1 Automation technology	3.2.38 Switch cabinets and accessories	3.3.72 Flexible shunt assemblies
3.2.3 Batteries	3.2.36 Switches	3.3.36 Friction bearings
3.2.26 Battery chargers	3.2.35 Switching gear	3.3.59 Friction pads for railway vehicles
3.2.2 Battery holders	3.2.31 Tilting systems	3.3.18 Front fairings
3.2.4 Battery isolators	3.2.47 Traction current converters & control systems	3.3.79 Gangway installations
3.2.24 Cable protection	3.2.18 Vehicle control system	3.3.19 Gaskets
	3.2.5 Ventilation/evacuation systems	3.3.83 Glazing systems
	3.3 Vehicle components and -systems	3.3.85 Haunch, air-air and flow sections
	3.3.5 Acoustics systems	3.3.63 Hoses
	3.3.51 Air filter	3.3.53 Impact protection modules
		3.3.38 Integrated subassemblies
		3.3.34 Joint rod sockets

3.3.12 Lighting systems
 3.3.84 Locking technology and systems
 3.3.64 Locks and fittings
 3.3.25 Passenger counting systems
 3.3.50 Profiles for lighting fittings
 3.3.90 Push / Pull devices
 3.3.56 Radar technology
 3.3.29 Radio remote control systems
 3.3.62 Rail brakes
 3.3.9 Rail hydraulic systems
 3.3.24 Rail tyres
 3.3.88 Rectifier inverters
 3.3.60 Rescue tools
 3.3.89 Resistance thermometers
 3.3.33 Rocker bearings
 3.3.54 Sections
 3.3.68 Self-locking nuts
 3.3.67 Sensors
 3.3.71 Shock absorbers
 3.3.61 Sooty particle filters
 3.3.69 Special sections for rail car construction
 3.3.27 Springs / Spring systems
 3.3.65 Storage compartment (below the wagon)
 3.3.10 Subassembly supports
 3.3.73 Testing systems
 3.3.74 Thermocouples
 3.3.23 Thrust collars for tramway bogies
 3.3.52 Tilting technology
 3.3.80 Valves
 3.3.26 Vehicle cabins
 3.3.13 Ventilation systems
 3.3.66 Vibration absorbers
 3.3.70 Wheel flange lubrication systems
 3.3.58 Wheelset pumps
 3.3.57 Wheelsets
 3.3.28 Window systems
 3.3.82 Wiring systems

3.4 Materials
 3.4.9 Adhesives
 3.4.1 Bent components in aluminium / steel
 3.4.7 Cast parts
 3.4.12 Coating
 3.4.21 Composite materials
 3.4.4 Flat products
 3.4.16 Foams
 3.4.2 Insulating materials
 3.4.8 Insulation materials
 3.4.17 Lubricants
 3.4.23 Materials for lightweight and sandwich construction
 3.4.14 Melamine resin foam
 3.4.11 Plastics
 3.4.18 Protective films
 3.4.5 Rubber moulded articles
 3.4.6 Rubber-metal connections
 3.4.3 Sealing materials

3.4.13 Sound insulation materials
 3.4.19 Special light-weight insulating materials
 3.4.20 Steel products
 3.4.10 Structural foams
 3.4.15 Upholstery materials
 3.4.22 Water varnish

3.5 Other

4. Service for vehicles

4.1 Maintenance
 4.1.4 Bogie testing plants
 4.1.15 Category of maintenance
 4.1.5 Corner force measuring equipment
 4.1.6 Disposal systems
 4.1.1 Exhaust systems
 4.1.16 Foils/films
 4.1.9 Inspection devices and systems
 4.1.8 Lifting devices for tracked vehicles
 4.1.18 Maintenance machines
 4.1.11 Measuring equipment and systems
 4.1.7 Replacement parts
 4.1.2 Re-railing equipment and systems
 4.1.3 Sand filling systems
 4.1.17 Testing devices and systems
 4.1.10 Varnishing devices
 4.1.12 Wheel force measurement systems
 4.1.14 Wheelset diagnostic systems
 4.1.13 Wheelset treatment
 4.1.19 Workshop equipment

4.2 Cleaning
 4.2.2 Cleaning equipment/technology
 4.2.3 Special cleaning services
 4.2.1 Vehicle wash systems
 4.2.4 Waste-water-treatment

4.3 Refurbishment
 4.3.3 Damage repair and management
 4.3.1 Expertises
 4.3.2 Restoration

4.4 Services
 4.4.3 Commissioning
 4.4.2 Design
 4.4.4 Maintenance management systems
 4.4.5 Marking
 4.4.1 Railway application testing
 4.4.8 Service enterprise shop practise
 4.4.6 Systems analysis
 4.4.7 Transport of railway vehicles

4.5 Other

Interiors

5. Interiors

5.1 Vehicle equipment

5.1.3 Driver consoles
 5.1.2 Floor coverings
 5.1.6 Hand-held lamps
 5.1.1 Handicapped accessible equipment
 5.1.7 Interior furnishings
 5.1.8 Lamps
 5.1.4 Luggage racks
 5.1.10 Roller blind systems
 5.1.13 Sanitary cubicles
 5.1.12 Sanitary equipment
 5.1.11 Seats and seating systems
 5.1.5 Stay bars
 5.1.14 Textiles
 5.1.9 Upholstery systems

5.2 Finishings / Information / Air conditioning / Security
 5.2.11 Air-conditioning systems
 5.2.1 Anti-pinch systems
 5.2.10 Cabin air ventilation / -climatisation
 5.2.15 Detrainment systems
 5.2.12 Emergency systems
 5.2.4 Fans for railway components
 5.2.2 Fire protection isolation
 5.2.3 Flooring systems
 5.2.5 Heating systems
 5.2.6 Information- and advertising systems
 5.2.9 Installation equipment
 5.2.7 Interior design systems
 5.2.8 Interior lining
 5.2.14 Surveillance systems
 5.2.13 Toilet systems

5.3 Travel Catering
 5.3.2 Accessories / Amenities
 5.3.4 Beverages
 5.3.3 Catering service provider
 5.3.8 Food
 5.3.12 Food / Beverages vending machines
 5.3.11 Food dispensing
 5.3.5 Hygiene
 5.3.6 Kitchen equipment
 5.3.7 Refrigeration and counter systems
 5.3.10 Service equipment
 5.3.1 Station Catering
 5.3.9 Trolleys

Railway Infrastructure

6. Infrastructure / Railway Construction

6.1 Construction work
 6.1.3 Building construction
 6.1.11 Civil and underground engineering
 6.1.4 Civil engineering and construction
 6.1.6 Control and signalling technology

6.1.1	Electrical power systems	6.5	<u>Technical equipment / Building materials</u>	6.5.51	Wearing- and sliding plastics, insulation plastics
6.1.5	Maintenance	6.5.1	Axle counters	6.5.13	Wheel flat detector
6.1.2	Overhead contact line	6.5.44	Ballast	6.6	<u>Signalling and control systems</u>
6.1.8	Permanent way welding technology	6.5.4	Bridge girders	6.6.2	Acoustics
6.1.9	Specialised civil engineering work	6.5.34	Buffer stops	6.6.6	Cable ducts
6.1.7	Superstructures	6.5.28	Cable channels	6.6.8	Communications technology
6.1.10	Telecommunications	6.5.19	Car retarder	6.6.7	Control systems
6.1.12	Tunnel and bridge construction	6.5.9	Catenaries	6.6.4	Earth terminals for track construction
6.2	<u>Planning and monitoring of construction works</u>	6.5.17	Concrete track and points sleepers	6.6.1	Level crossing systems
6.2.5	Planning and control	6.5.2	Construction site lighting	6.6.3	Operating control engineering
6.2.8	Planning of electric power supply	6.5.7	Electric points (switch) heater	6.6.5	Remote control equipment
6.2.7	Planning of signalling and control systems	6.5.49	Electric power supply	6.6.10	Signalling systems
6.2.6	Planning of superstructure, underground, and civil engineering works	6.5.6	End-of-track buffers	6.6.9	Switchgears in earth systems
6.2.9	Planning review	6.5.3	Friction buffer stops	6.6.11	Warning systems for tracklaying sites
6.2.10	Project planning	6.5.15	Geotextiles	6.7	<u>Overhead line equipment</u>
6.2.2	Site exploration / materials testing	6.5.14	Handrails	6.7.6	Clamps and foundries components
6.2.4	Supervision of works	6.5.24	Hot box detection system	6.7.2	Engineering consultant
6.2.11	Survey	6.5.26	Insulating joints	6.7.3	Installation
6.2.1	Tendering and tender evaluation	6.5.25	Insulation for railway catenary	6.7.5	Insulators and section insulators
6.2.3	Work logistics	6.5.27	Isolated fastenings	6.7.4	Maintenance
6.3	<u>Railway track machinery, equipment and tools</u>	6.5.29	Long material equipment for road transport of rails	6.7.10	Overhead installations
6.3.2	Ballast cleaning machines	6.5.30	Long rails	6.7.9	Overhead line measuring systems
6.3.15	Ballast regulating machines	6.5.43	Lubricants	6.7.11	Overhead line tests
6.3.17	Ballast tamping machines	6.5.35	Marshalling equipment	6.7.12	Steady arms and suspensions
6.3.4	Equipment	6.5.31	Mass-Spring-Systems	6.7.8	Suspension wire components
6.3.1	Excavators	6.5.33	Measuring equipment	6.7.7	Tensioning devices
6.3.13	Grinding machines	6.5.36	Noise deadening	6.7.13	Tools
6.3.14	Grinding tools	6.5.11	Panel track laying	6.7.1	Wires and cables
6.3.8	Heavy machinery and tower cranes	6.5.32	Plotting paper	6.8	<u>Other services</u>
6.3.9	Light machines	6.5.54	Points (switch) heaters	6.8.10	Ecological surveys
6.3.10	Measuring equipment and -systems	6.5.55	Points (switch) lubricating equipment	6.8.4	Electromagnetic compatibility
6.3.3	Overhead line vehicles	6.5.53	Points (switch) mechanisms	6.8.1	Health and safety
6.3.11	Rail milling machines	6.5.52	Points (switches) and crossings	6.8.6	Inspection of tracks and points (switches)
6.3.12	Rail-carrying train	6.5.10	Power line masts	6.8.8	Machine repair
6.3.22	Road-rail vehicles	6.5.8	Protection against mechanical vibrations	6.8.5	Platform covering
6.3.16	Safety tools	6.5.50	Protection Systems	6.8.2	Protection of construction sites
6.3.20	Switch inspection systems	6.5.40	Rail fastening equipment	6.8.7	Recycling of building materials
6.3.5	Track cars	6.5.39	Rail guards / cow-catchers	6.8.9	Safety during hazardous cargo transport
6.3.7	Track laying and track construction machines	6.5.42	Rail link units	6.8.3	Site monitoring
6.3.18	Track maintenance vehicles	6.5.41	Rail lubrication systems	6.8.11	Survey
6.3.6	Track recording cars	6.5.45	Railroad ties (sleepers)	6.9	<u>Other</u>
6.3.19	Track warning systems for machinery	6.5.38	Rails	Public Transport	
6.3.21	Wagons for turnout transport	6.5.20	Re-ballasting of tracks	7.	Public Transport / Fixed structures
6.4	<u>Station buildings</u>	6.5.47	Safety engineering	7.1	<u>Streetbound vehicles for local and regional public transport</u>
6.4.5	Air conditioning equipment	6.5.18	Siding track facilities	7.2	<u>Station and stop premises</u>
6.4.4	Guide systems for blind	6.5.48	Special products for transport route construction	7.2.24	Advertisement systems
6.4.2	Platform edges	6.5.16	Steel grating	7.2.10	Bicycle parking facilities
6.4.3	Platform systems	6.5.12	Surface stabilisation systems	7.2.21	Clock systems
6.4.1	Platforms	6.5.5	Third rail	7.2.7	Counters
		6.5.57	Tongue rolls for switches	7.2.18	Customer service
		6.5.21	Track bed systems		
		6.5.22	Track circuits		
		6.5.37	Track switchgear		
		6.5.23	Track systems		
		6.5.56	Train preheating equipment		
		6.5.46	Vibration Isolation		

7.2.1	Dispatch facilities	7.8	Clothing / Workwear	8.11	Traffic Management
7.2.12	Escalators	7.8.1	Headgear	8.11.4	Traffic control systems
7.2.15	Furnishing for control stations	7.8.3	Protective Clothing	8.11.1	Traffic data determination
7.2.2	Lifts	7.8.2	Shoes	8.11.3	Traffic engineering
7.2.17	Luggage locker facilities	7.8.4	Textiles	8.11.2	Traffic information systems
7.2.11	Moving pavements	7.9	Other	8.12	Other
7.2.8	Passenger counting systems	8.	Transport IT	9.	Freight traffic logistics
7.2.23	Path control systems		Transport management / Data processing / Information / Communication	9.4	Combined transport
7.2.5	Platform lighting	8.1	E-business	9.1	Fleet management systems
7.2.16	Poster showcases	8.2	Information technology / quality assurance systems	9.2	Hazardous cargo transports
7.2.14	Process control systems	8.2.5	Efficiency control	9.3	Identification systems
7.2.20	Roofing systems	8.2.4	Geo information systems	9.8	Interchangeable containers, changing systems
7.2.22	Shelters	8.2.3	Journey analysis systems	9.7	Loading / Unloading systems and organisation
7.2.4	Station / telephone box doors	8.2.2	Real-time statistics	9.10	Other
7.2.6	Station dividing walls / doors	8.2.1	Testing and analysis systems	9.5	RFID Tracking
7.2.3	Station furnishings	8.3	Components for information technology	9.6	Shipment tracking systems
7.2.13	Stop furnishings	8.3.1	Sensors	9.9	Weighing equipment
7.2.19	System integrators	8.4	Communication systems	10.	Services
7.2.9	Time-table and info-showcases	8.4.1	Digital radio systems	10.1	Institutions / Media / Transport businesses
7.2.25	Weather protection	8.4.3	Internet systems	10.1.7	Associations
7.3	Passenger information systems	8.4.2	Interphone systems	10.1.1	Authorities
7.3.7	Coach controllers	8.4.4	Mounting systems for train radio equipment	10.1.11	Business development
7.3.1	Display-cases	8.4.5	Train radio systems	10.1.3	Freight traffic businesses
7.3.2	GPS-controlled time displays	8.5	Management systems	10.1.4	Freight traffic centres
7.3.3	Infotainment systems	8.5.1	Depot Management	10.1.2	Industrial parks
7.3.4	Interactive Voice Response Systems (IVR)	8.5.2	Facility management	10.1.9	Joint transport authorities
7.3.5	LED displays	8.5.3	Infrastructure management systems	10.1.8	Organisations
7.3.6	Plasma displays	8.5.4	Lean production	10.1.5	Passenger transport businesses
7.3.8	Seat reservation systems	8.6	Operation - Rail systems	10.1.10	Publishing houses
7.3.9	System controllers	8.7	Location and navigation systems	10.1.13	Railway infrastructure companies
7.3.10	TFT flat panel displays	8.8	Planning systems	10.1.12	Science, research and development
7.3.11	TFT-LCD displays	8.8.3	Optimisation	10.1.6	Technology and incubation units
7.4	Passenger fare management	8.8.4	Personnel- and service planning	10.2	Services in the transport industry
7.4.10	Access systems	8.8.5	Resources planning (personnel, wagons, locomotives)	10.2.17	Certification
7.4.2	Board Computer	8.8.6	Roster planning	10.2.4	Documentation
7.4.3	Chip cards	8.8.1	Time-table planning	10.2.7	Education and training
7.4.5	Eelectronic payment systems	8.8.2	Vehicle deployment	10.2.10	Engineering services
7.4.9	Rate management	8.9	Safety and control engineering	10.2.15	Expert services
7.4.4	Revenue management	8.9.2	Computer-assisted operations control system	10.2.6	Financial services
7.4.8	RFID media	8.9.1	Passenger alarm systems	10.2.1	Health and safety
7.4.1	Settlement systems	8.9.3	Video surveillance systems (CCTV)	10.2.16	Insurances
7.4.6	Ticket defacing	8.10	Software / Software development	10.2.11	Leasing
7.4.7	Ticket issuing	8.10.3	Analyses and calculations relating to the dynamics of vehicle movement	10.2.12	Marketing
7.5	Parking area management	8.10.1	Computer-based training programme	10.2.5	Passenger survey
7.5.1	Car park tickets	8.10.2	E-Procurement	10.2.2	Recruitment agency
7.6	Cleaning / Waste Disposal	8.10.4	Software for project management	10.2.14	Recycling
7.6.2	Cleaning and waste disposal equipment			10.2.8	Risk protection
7.6.1	Services			10.2.3	Services shop floor level
7.6.3	Washing and toilet facilities			10.2.13	Testing services
7.7	Safety and control			10.2.9	Trade
7.7.2	Fire detection systems			10.3	Analysis / Consulting / Development / Planning
7.7.4	Fire extinguishing systems			10.3.5	Complete solution for planning and design
7.7.3	Fire protection systems				
7.7.7	Monitoring systems				
7.7.6	Safety engineering				
7.7.1	Security				
7.7.5	Supervising services				

- 10.3.2 Consultancy
- 10.3.3 Design
- 10.3.4 Engineering
- 10.3.1 Execution planning
- 10.3.6 Noise and vibration reduction
- 10.3.8 Project planning
- 10.3.9 Simulation/Calculation of power networks
- 10.3.7 Studies, conceptual and system planning
- 10.3.10 Systemanalysis / -development
- 10.4 Realisation / Project-Management**
- 10.4.2 Contract and claims-, project and Construction Management
- 10.4.1 Electric project management
- 10.5 Other

Tunnel Construction

11. Tunnel Construction

11.1 Construction machines, -parts and components

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

- 11.1.29 Rail-head equipment / drilling jibs
- 11.1.3 Rock-crushing equipment
- 11.1.25 Shaft boring devices
- 11.1.12 Track transport and carrying devices
- 11.1.30 Transport- and feed systems
- 11.1.31 Tunnel boring machines
- 11.2 Finishing**
- 11.2.19 Air cleaning / waste-air disposal
- 11.2.17 Air conditioning / ventilation
- 11.2.18 Air conduction systems
- 11.2.3 Building industry
- 11.2.2 Compensating plate
- 11.2.6 Concrete vibrators
- 11.2.12 Dedusting systems
- 11.2.13 Drainage and pump systems
- 11.2.26 Drill-and-blast tunnelling
- 11.2.10 Electrification
- 11.2.11 Electrotechnology
- 11.2.4 Fastening systems
- 11.2.15 Gas-extraction equipment/ systems
- 11.2.7 Ground freezing
- 11.2.8 Ground stabilization
- 11.2.16 Impregnate / Sealing of facing
- 11.2.9 Improvement of land
- 11.2.5 Lighting systems
- 11.2.22 Pipes and pipe connections
- 11.2.31 Planking
- 11.2.28 Power systems
- 11.2.32 Reinforcement and tensioning device
- 11.2.21 Relining
- 11.2.14 Rock bolts / anchors
- 11.2.24 Shaft linings
- 11.2.23 Shaft sinking
- 11.2.25 Slurry walls, shields and trenches
- 11.2.1 Support devices / support arches / steel supports / lattice girders
- 11.2.20 Technical engineering and terotechnology
- 11.2.29 Tunnel coatings
- 11.2.30 Tunnel membranes, water stops
- 11.2.27 Tunnel supports
- 11.3 Building and other materials**
- 11.3.10 Ballast
- 11.3.2 Bitumen
- 11.3.15 Cement and additives
- 11.3.13 Clay
- 11.3.1 Concrete
- 11.3.11 Explosives
- 11.3.9 Foam and Polymeres
- 11.3.6 Gravel
- 11.3.14 Grouting materials
- 11.3.4 Gypsum
- 11.3.3 Injection products
- 11.3.5 Lime
- 11.3.7 Mortar
- 11.3.8 Sand

- 11.3.12 Shotcrete / Concrete additives
- 11.4 Maintenance**
- 11.4.2 Hydraulic service equipment
- 11.4.3 Lubricants
- 11.4.1 Preservation, decontamination, backfitting
- 11.4.4 Tunnel maintenance
- 11.5 Safety features**
- 11.5.5 Controlsystems
- 11.5.3 Fire protection
- 11.5.6 Measurement / Examination / Control and Test equipment
- 11.5.9 Monitoring- / Warning- / Alarmsystems
- 11.5.7 Personal safety
- 11.5.4 Protection against dangers
- 11.5.1 Safety at work
- 11.5.8 Safety equipment / -systems
- 11.5.2 Site safety
- 11.6 Communication**
- 11.6.3 Internet Systems
- 11.6.2 Interphone systems
- 11.6.5 Managementsystems
- 11.6.1 Radio systems
- 11.6.6 Software
- 11.6.7 Telecommunication
- 11.6.4 Underground communications
- 11.6.8 Video systems
- 11.7 Services / Consulting**
- 11.7.16 Associations, Organisations
- 11.7.3 Authorities
- 11.7.1 Calls for tenders / drafting and awarding contracts
- 11.7.21 Certification
- 11.7.2 Construction-site logistics
- 11.7.4 Consultancy
- 11.7.19 Contract and claims-, project and construction management
- 11.7.6 Documentation
- 11.7.11 Engineering services
- 11.7.12 Expert Services
- 11.7.8 Financing / Insurance
- 11.7.9 Geology
- 11.7.10 Geotechnical services
- 11.7.18 Measurement
- 11.7.13 Monitoring harmful substances
- 11.7.5 Operational, environmental and safety equipment / systems
- 11.7.17 Publishers
- 11.7.20 Science, Research & Development
- 11.7.14 System analysis, -development
- 11.7.15 Technology centre
- 11.7.7 Trade Publications
- 11.8 Clothing / Workwear**
- 11.8.1 Geo textiles
- 11.8.2 Headgear
- 11.8.3 Protective clothing
- 11.8.4 Shoes
- 11.9 Others**