Product group classification InnoTrans 2022

(from A-Z)

Railway Technology
1. Railbound vehicles for public and freight transport
2. Intermodal transport vehicles
3. Subassemblies and components
4. Service for vehicles
Interiors
5. Interiors
Railway Infrastructure
6. Infrastructure / Railway Construction 16
Public Transport
7. Public Transport / Fixed structures
8. Transport IT
Transport management / Data processing /
Information / Communication
9. Freight traffic logistics
10. Services
Tunnel Construction
11. Tunnel Construction

Product group classification InnoTrans 2022

(from A-Z)

Raily	vay Technology	3.2.11	Electromechanical components	3.3.7	Exterior parts
T.G.II V	idy realifology	3.2.12	Energy storage	3.3.8	Exterior claddings
1.	Railbound vehicles for public	3.2.13	Energy supply systems	3.3.9	Rail hydraulic systems
	and freight transport	3.2.14	Energy meter	3.3.10	Subassembly supports
1.1	Public transport rail cars	3.2.15	Earthing contacts	3.3.11	Fastening systems
1.1.1	Local and regional public transport rail cars	3.2.16	Driver panels	3.3.12	Lighting systems
1.1.2	Long distance public transport	3.2.17	Master controller	3.3.13	Ventilation systems
1.1.2	rail cars	3.2.18	Vehicle control system	3.3.14	Brake linings
1.1.3	Motor units and motor coaches	3.2.19	Field bus components	3.3.15	Brake pads
1.1.3	Freight cars	3.2.20	Floodlight keyboards	3.3.16	Brake disks
1.2.1	Covered wagons	3.2.21	Filling level measuring	3.3.17	Braking systems
1.2.1	Loading units	3.2.21	technology	3.3.18	Front fairings
	_	3.2.22	Handheld lamps	3.3.19	Gaskets
1.2.3	Flat wagons	3.2.23	Inductive Components	3.3.20	Bogies
1.2.4	Self-discharging wagons	3.2.24	Cables and lines	3.3.21	Bogie pivot centre plates
1.2.5	Other standard-type rail cars	3.2.25	Cable protection	3.3.22	Compressed air technology
1.2.6	Special-purpose rail cars	3.2.26	Cassettes	3.3.23	Thrust collars for tramway
1.2.7	Tank wagons	3.2.27	Battery chargers	3.3.23	bogies
1.3	<u>Locomotives</u>		-	3.3.24	Rail tyres
1.4	Magnetic levitation trains	3.2.28	Charging rectifiers	3.3.25	Passenger counting systems
1.5	Narrow-gauge railway vehicles	3.2.29	Power switches and switchgear	3.3.26	Vehicle cabins
1.6	Special-purpose cars	3.2.30	Circuit boards	3.3.27	Springs / Spring systems
1.7	Rack railway-train	3.2.31	Control systems	3.3.28	Radio remote control systems
1.8	<u>Other</u>	3.2.32	Tilting systems		-
2.	Intermodal transport vehicles	3.2.33	Registration and display	3.3.29	Clevis guides
2.1	<u>Other</u>		systems	3.3.30	Casing systems
3.	Subassemblies and	3.2.34	Series terminals	3.3.31	Articulations
-	components	3.2.35	Relays	3.3.32	Rocker bearings
3.1	<u>Driving gear</u>	3.2.36	Switching gear	3.3.33	Joint rod sockets
3.1.1	Exhaust gas silencer	3.2.37	Switches	3.3.34	Cardan shafts
3.1.2	Driving systems and electronics	3.2.38	Metal contacts	3.3.35	Friction bearings
3.1.3	Traction motors	3.2.39	Switch cabinets and accessories	3.3.36	Cast metal wheels
3.1.4	Vehicle lubrication	3.2.40	Fuses and accessories	3.3.37	Integrated subassemblies
3.1.5	Generators	3.2.41	Special-purpose electric	3.3.38	Air ducts
3.1.6	Transmissions		machines	3.3.39	Carbon brushes
3.1.7	Hydraulic drive systems for	3.2.42	Connectors	3.3.40	Carbon strips
	railway vehicles	3.2.43	Control components	3.3.41	Compressors
3.1.8	Motors / Engines	3.2.44	Control cubicles	3.3.42	Capacitors
3.1.9	Traction motor ventilation	3.2.45	Current collectors	3.3.43	Ball bearings
3.1.10	Traction motor housing	3.2.46	Power generating sets	3.3.44	Cooling systems
3.1.11	Traction motor preheaters	3.2.47	Current transformers	3.3.45	Couplers
3.1.12	Motor oil refilling systems	3.2.48	Traction current converters &	3.3.46	Couplings
3.1.13	Pneumatic material		control systems	3.3.47	Coupling adaptors
3.1.14	Wheelset gear sets	3.2.49	Transformers	3.3.48	Bearing housings
3.1.15	Lubricating systems	3.2.50	Pantographs	3.3.49	Profiles for lighting sittings
3.1.16	System technology	3.2.51	Overvoltage safety systems	3.3.50	Air filter
3.2	Energy / Electrotechnology	3.2.52	Inverters	3.3.51	Tilting technology
3.2.1	Automation technology	3.2.53	Interconnection systems	3.3.52	Impact protection modules
3.2.2	Battery holders	3.2.54	Converters	3.3.53	Sections
3.2.3	Batteries	3.2.55	Resistances	3.3.54	Buffer
3.2.4	Battery isolators	3.3	Vehicle components and	3.3.55	Radar technology
3.2.5	Ventilation / evacuation		-systems	3.3.56	Wheelsets
5.2.5	systems	3.3.1	Exhaust filtering systems	3.3.57	Wheelset pumps
3.2.6	Operating and control panels	3.3.2	Exhaust silencer	3.3.58	Friction pads for railway
3.2.7	DC / DC converters	3.3.3	Axle guard sidebearer liners	٥٠.٥.٥	vehicles
3.2.8	Diagnosing equipment	3.3.4	Axle guard sidebearer guides	3.3.59	Rescue tools
3.2.9	Compressed air supply	3.3.5	Acoustic systems	3.3.60	Sooty particle filters
3.2.10	Pressure measuring equipment	3.3.6	Armature	3.3.61	Rail brakes
5.2.10	r ressure measuring equipment	5.5.0	, a macare	ا ٥.٥.٥ ا	nan brakes

3.3.62	Hoses	3.4.23	Materials for lightweight and	5.1.6	Stay bars
3.3.63	Locks and fittings		sandwich construction	5.1.7	Hand-held lamps
3.3.64	Welded assemblies, underfloor-	3.5	<u>Other</u>	5.1.8	Interior furnishings
	components	4.	Service for vehicles	5.1.9	Lamps
3.3.65	Vibration absorbers	4.1 4.1.1	Maintenance Exhaust systems	5.1.10	Upholstery systems
		4.1.1	Re-railing equipment and	5.1.11	Roller blind systems
3.3.66	Sensors	7.1.2	systems	5.1.12 5.1.13	Seats and seating systems Sanitary equipment
3.3.67	Self-locking nuts	4.1.3	Sand filling systems	5.1.13	Sanitary equipment Sanitary cubicles
3.3.68	Special sections for rail car	4.1.4	Bogie testing plants	5.1.14	Textiles
	construction	4.1.5	Corner force measuring	5.1.16	Glazing systems
3.3.69	Wheel flange lubrication		equipment	5.2	Finishings / Information / Air
	systems	4.1.6	Disposal systems		conditioning / Security
3.3.70	Shock absorbers	4.1.7 4.1.8	Replacement parts Lifting devices for tracked	5.2.1	Anti-pinch systems
3.3.71	Flexible shunt assemblies	4.1.0	vehicles	5.2.2	Fire protection isolation
3.3.72	Testing systems	4.1.9	Inspection devices and systems	5.2.3	Flooring systems
3.3.73	Thermocouples	4.1.10	Maintenance systems	5.2.4 5.2.5	Fans for railway components Heating systems
	•	4.1.11	Varnishing devices	5.2.5 5.2.6	Information- and advertising
3.3.74	Gangway installations	4.1.12	Measuring equipment and	3.2.0	systems
3.3.75	Valves		systems	5.2.7	Interior design systems
3.3.76	Connection systems	4.1.13	Wheel force measurement systems	5.2.8	Interior lining
3.3.77	Wiring systems	4.1.14	Wheelset treatment	5.2.9	Installation equipment
3.3.78	Locking technology and	4.1.15	Wheelset diagnostic systems	5.2.10	Cabin air ventilation /
	systems	4.1.16	Category of maintenance	E 2 44	-climatisation
3.3.79	Haunch, air ducts and flow	4.1.17	Foils / films	5.2.11	Air-conditioning systems
	sections	4.1.18	Testing devices and systems	5.2.12 5.2.13	Emergency systems Sanitary systems
3.3.80	Car bodies	4.1.19	Maintenance machines	5.2.13	Door furniture
		4.1.20	Workshop equipment	5.2.15	Door opener push buttons
3.3.81	Antifriction bearings	4.2	<u>Cleaning</u>	5.2.16	Door controls
3.3.82	Resistance thermometers	4.2.1	Vehicle washing systems	5.2.17	Door systems
3.3.83	Push / Pull devices	4.2.2	Surface treatment	5.2.18	Surveillance systems
3.3.84	Coupler carriers	4.2.3	Cleaning equipment /	5.2.19	Detrainment systems
3.4	Materials	4.2.4	technology Special cleaning services	5.3	Travel Catering & Comfort
3.4.1	Bent components in aluminium /	4.2.5	Waste-water-treatment		<u>Services</u>
	steel	4.3	Refurbishment	5.3.1	Station catering
3.4.2	Insulating materials	4.3.1	Expertises	5.3.2 5.3.3	Accessories / Amenities
3.4.3	Sealing materials	4.3.2	Restoration	5.3.4	Catering service provider Beverages
		4.3.3	Damage repair and	5.3.5	Hygiene
3.4.4	Flat products		management	5.3.6	Kitchen equipment
3.4.5	Rubber articles	4.4	<u>Services</u>	5.3.7	Refrigeration and counter
3.4.6	Rubber-metal connections	4.4.1	Railway application testing		systems
3.4.7	Cast parts	4.4.2	Design	5.3.8	Food
3.4.8	Insulation materials	4.4.3 4.4.4	Commissioning Engineering services	5.3.9	Trolleys
3.4.9	Adhesives	4.4.5	Maintenance management	5.3.10	Service equipment
3.4.10	Structural foams	4.4.5	systems	5.3.11	Food / Boyerage yanding
		4.4.6	Marking	5.3.12	Food / Beverage vending machines
3.4.11	Plastics	4.4.7	Systems analysis		
3.4.12	Coating	4.4.8	Transport of railway vehicles		
3.4.13	Sound insulation materials	4.4.9	Workshop services	Railv	vay Infrastructure
3.4.14	Melamine resin foam	4.5	<u>Other</u>		
3.4.15	Upholstery materials			6.	Infrastructure / Railway Construction
3.4.16	Foams	Inter	iors	6.1	Construction work
3.4.17	Lubricants			6.1.1	Electrical power systems
		5.	Interiors	6.1.2	Overhead contact line
3.4.18	Protective films	5.1	Vehicle equipment	6.1.3	Building construction
3.4.19	Special light-weight insulating	5.1.1	Handicapped accessible equipment	6.1.4	Civil engineering and
	materials	5.1.2	Floor coverings	6.1.5	construction Maintenance
3.4.20		J. I.Z		כ.ו.ס	iviaiiiteiiaiite
	Steel products	5.1.3	Window systems		Control and signalling
3.4.21	Steel products Composite materials	5.1.3 5.1.4	Window systems Driver consoles	6.1.6	Control and signalling technology

Luggage racks

5.1.5

3.4.22 Water varnish

6.1.7

Superstructures

6.1.8	Permanent way welding	6.5.5	Third rail	6.6.3	Operating control engineering
	technology	6.5.6	End-of-track buffers	6.6.4	Earth terminals for track
6.1.9	Specialised civil engineering work	6.5.7	Electric points (switch) heater	6.6.5	construction Remote control equipment
6.1.10	Telecommunications	6.5.8 6.5.9	Protection against vibrations Catenaries	6.6.6	Cable ducts
6.1.11	Civil and underground	6.5.10	Power line masts	6.6.7	Control systems
6442	engineering	6.5.11	Panel track laying	6.6.8	Communications technology
6.1.12 6.2	Tunnel and bridge construction Planning and monitoring of	6.5.12	Surface stabilisation systems	6.6.9	Switchgears in earth systems
0.2	construction works	6.5.13	Wheel flat detector	6.6.10	Signalling systems
6.2.1	Tendering and tender	6.5.14	Handrails	6.6.11	Warning systems for tracklaying sites
	evaluation	6.5.15	Geotextiles	6.7	Overhead line equipment
6.2.2	Site exploration / materials testing	6.5.16	Steel grating	6.7.1	Wires and cables
6.2.3	Work logistics	6.5.17	Concrete track and points sleepers	6.7.2	Engineering consultant
6.2.4	Supervision of works	6.5.18	Siding track facilities	6.7.3	Installation
6.2.5	Planning and control	6.5.19	Car retarder	6.7.4	Maintenance
6.2.6	Planning of superstructure,	6.5.20	Re-ballasting of tracks	6.7.5	Insulators and section insulators
	underground, and civil engineering works	6.5.21	Track bed systems	6.7.6	Clamps and cast parts
6.2.7	Planning of signalling and	6.5.22	Track circuits	6.7.7	Tensioning devices
	control systems	6.5.23 6.5.24	Track systems Hot box detection system	6.7.8	Suspension wire components
6.2.8	Planning of electric power	6.5.25	Insulation for railway catenary	6.7.9	Overhead line measuring
6.2.9	supply Planning review	6.5.26	Insulating joints	6710	systems
6.2.10	Project planning	6.5.27	Isolated fastenings	6.7.10 6.7.11	Overhead installations Overhead line tests
6.2.11	Survey	6.5.28	Cable channels	6.7.11	Steady arms and suspensions
6.3	Railway track machinery,	6.5.29	Long material equipment for	6.7.13	Tools
	equipment and tools	6 5 30	road transport of rails	6.8	Other services
6.3.1	Excavators	6.5.30 6.5.31	Long rails Mass-Spring-Systems	6.8.1	Health and safety
6.3.2 6.3.3	Ballast cleaning machines Overhead line vehicles	6.5.32	Plotting paper	6.8.2	Protection of construction sites
6.3.4	Equipment	6.5.33	Measuring equipment	6.8.3	Site monitoring
6.3.5	Track cars	6.5.34	Buffer stops	6.8.4	Electromagnetic compatibility
6.3.6	Track recording cars	6.5.35	Marshalling equipment	6.8.5 6.8.6	Platform covering Inspection of tracks and points
6.3.7	Track laying and track	6.5.36	Noise deadening	0.6.0	(switches)
	construction machines	6.5.37	Track switchgear	6.8.7	Recycling of building materials
6.3.8	Heavy machinery and tower cranes	6.5.38 6.5.39	Rails Rail guards / cow-catchers	6.8.8	Machine repair
6.3.9	Light machines	6.5.40	Rail fastening equipment	6.8.9	Safety during hazardous cargo
6.3.10	Measuring equipment and	6.5.41	Rail lubrication systems	6.8.10	transport Ecological surveys
	-systems	6.5.42	Rail link units	6.8.11	Survey
6.3.11	Rail milling machines	6.5.43	Lubricants	6.9	Other
6.3.12	Rail-carrying train	6.5.44	Ballast		
6.3.13 6.3.14	Grinding machines Grinding tools	6.5.45	Railroad ties (sleepers)	5 I I	_
6.3.15	Ballast regulating machines	6.5.46	Vibration damping	Publi	c Transport
6.3.16	Safety tools	6.5.47 6.5.48	Safety engineering Special products for transport	7.	Public Transport / Fixed
6.3.17	Ballast tamping machines	0.5.46	route construction		structures
6.3.18	Track maintenance vehicles	6.5.49	Electric power supply	7.1	Streetbound vehicles for local and regional public transport
6.3.19	Track warning systems for	6.5.50	Protection systems	7.2	Station and stop premises
6.3.20	machinery Switch inspection systems	6.5.51	Wearing- and sliding plastics,	7.2.1	Dispatch facilities
6.3.21	Wagons for turnout transport	6.5.52	insulation plastics Points (switches) and crossings	7.2.2	Lifts
6.3.22	Road-rail vehicles	6.5.53	Points (switch) mechanisms	7.2.3	Station furnishings
6.4	Station buildings	6.5.54	Points (switch) heaters	7.2.4	Station / telephone box doors
6.4.1	Platforms	6.5.55	Points (switch) lubricating	7.2.5	Platform lighting
6.4.2	Platform edges		equipment	7.2.6	Station dividing walls / doors
6.4.3	Platform systems	6.5.56	Wayside Train Monitoring Systems	7.2.7 7.2.8	Counters Passenger counting systems
6.4.4 6.4.5	Guide systems for blind Air conditioning equipment	6.5.57	Train preheating equipment	7.2.8 7.2.9	Time-table and info-showcases
6.4.5 6.5	Technical equipment / Building	6.5.58	Tongue rolls for switches	7.2.10	Bicycle parking facilities
0.5	materials	6.5.59	Area ligthing	7.2.11	Moving pavements
6.5.1	Axle counters	6.5.60	Fibre Optic Sensing	7.2.12	Escalators
6.5.2	Construction site lighting	6.6	Signalling and control systems	7.2.13	Stop furnishings

6.5.3

6.5.4

Friction buffer stops

Bridge girders

6.6.1

6.6.2

Level crossing systems

Acoustics

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	Comisses
7.2.16 7.2.17	Luggage locker facilities	8.2.3 8.2.4	Geo information systems	10. 10.1	Services Institutions / Media / Transport
7.2.17	Customer service	8.2.5	Efficiency control		companies
7.2.10	System integrators	8.3	Components for information	10.1.1	Authorities
7.2.20	Roofing systems		technology	10.1.2	Industrial parks
7.2.21	Clock systems	8.3.1	Sensors	10.1.3	Freight traffic companies
7.2.22	Shelters	8.4	Communication systems	10.1.4	Freight traffic centres
7.2.23	Path control systems	8.4.1	Digital radio systems	10.1.5	Passenger transport companies
7.2.24	Advertisement systems	8.4.2	Interphone systems	10.1.6	Technology and incubation
7.2.25	Weather protection	8.4.3	Internet systems	4047	units
7.3	Passenger information systems	8.4.4	Mounting systems for train	10.1.7	Associations
7.3.1	Display-cases	0.45	radio equipment	10.1.8	Organisations
7.3.2	GPS-controlled time displays	8.4.5 8.5	Train radio systems Management systems	10.1.9	Joint transport authorities
7.3.3	Infotainment systems	8.5.1	Plant management systems		Publishing houses Business development
7.3.4	Interactive Voice Response	8.5.2	Depot management		Science, research and
725	Systems (IVR)	8.5.3	Facility management	10.1.12	development
7.3.5	LED displays	8.5.4	Infrastructure management	10.1.13	
7.3.6	Plasma displays Coach controllers		systems		companies
7.3.7 7.3.8	Seat reservation systems	8.5.5	Lean production	10.2	Services in the transport
7.3.6 7.3.9	System controllers	8.6	Operation - Rail systems		industry
7.3.9 7.3.10	TFT flat panel displays	8.7	Location and navigation	10.2.1	Health and safety
7.3.10	TFT-LCD displays		systems	10.2.2	Recruitment agency
7.3.11 7.4	Ticket management	8.8	Planning systems	10.2.3	Services shop floor level
7. 4 .1	Settlement systems	8.8.1	Time-table planning	10.2.4	Documentation
7.4.2	Board computer	8.8.2	Vehicle deployment	10.2.5	Passenger survey
7.4.3	Chip cards	8.8.3	Optimisation	10.2.6	Financial services
7.4.4	Revenue management	8.8.4 8.8.5	Personnel- and service planning Resource planning (personnel,	10.2.7 10.2.8	Education and training Risk protection
7.4.5	Electronic payment systems	0.0.5	wagons, locomotives)	10.2.8	Trade
7.4.6	Ticket defacing	8.8.6	Roster planning		Engineering services
7.4.7	Ticket issuing	8.9	Safety and control engineering		Leasing
7.4.8	Mobile ticketing	8.9.1	Cyber security		Marketing
7.4.9	RFID media	8.9.2	Passenger alarm systems		Testing services
7.4.10	Rate management	8.9.3	Computer-assisted operations		Recycling
7.4.11	Access systems		control system		Expert services
7.5	Parking area management	8.9.4	Video surveillance systems		Insurances
7.5.1	Parking permits	0.40	(CCTV)		Certification
7.6	Cleaning / Waste Disposal	8.10	Software / Software development	10.3	Analysis / Consulting /
7.6.1	Services	8.10.1	Computer-based training		Development / Planning
7.6.2	Cleaning and waste disposal		programme	10.3.1	Execution planning
7.6.2	equipment	8.10.2	E-Procurement	10.3.2	Consultancy
7.6.3	Washing and toilet facilities	8.10.3	Analyses and calculations	10.3.3	Design
7.7 7.7.1	Safety and control		relating to the dynamics of	10.3.4	Engineering
7.7.1 7.7.2	Security Fire detection systems	0.10.4	vehicle movement	10.3.5	Complete solution for planning
7.7.2 7.7.3	Fire protection systems	8.10.4	Software for project management	10.3.6	and design Noise and vibration reduction
7.7.3 7.7.4	Fire extinguishing systems	8.11	Traffic Management	10.3.6	Studies, conceptual and system
7.7.5	Supervising services	8.11.1	Traffic data determination	10.5.7	planning
7.7.5 7.7.6	Safety engineering	8.11.2	Traffic information systems	10.3.8	Project planning
7.7.7	Monitoring systems	8.11.3	Traffic engineering	10.3.9	Simulation / Calculation of
7.8	Clothing / Workwear	8.11.4	Traffic control systems		power networks
7.8.1	Headgear	8.12	<u>Other</u>	10.3.10	, , ,
7.8.2	Shoes	9.	Freight traffic logistics	10.4	Realisation / Project-
7.8.3	Protective clothing	9.1	Fleet management systems	40.4.	<u>Management</u>
7.8.4	Textiles	9.2	Hazardous cargo transports	10.4.1	Electric project management
7.9	<u>Other</u>	9.3	Identification systems	10.4.2	Contract and claims-, project and construction management
8.	Transport IT	9.4	Combined transport	10.5	Other
	Transport management / Data	9.5	RFID tracking	10.5	Mobility+
	processing / Information /	9.6	Shipment tracking systems	10.6.1	Autonomous driving
Q 1	Communication	9.7	Loading / Unloading systems	10.6.2	Bike sharing
8.1 8.2	E-Business Information technology /	9.8	and organisation Interchangeable containers,	10.6.3	Car sharing
0.2	Information technology / quality assurance systems	5.0	changing systems	10.6.4	Chauffer-Service
8.2.1	Testing and analysis systems	9.9	Swap bodies, systems	10.6.5	Digital mobility platforms
8.2.2	Real-time statistics	9.10	Other .	10.6.6	First/last mile
					

10.6.7	E-Scooter sharing		arches / steel supports / lattice	11.5.5	Control systems
10.6.8	Car rental	44.2.2	girders	11.5.6	Measurement / Examination /
10.6.9	Mobility apps	11.2.2	Compensating plate	44 5 7	Control and test equipment
	Ridepooling	11.2.3	Building industry	11.5.7	Personal safety Safety equipment / -systems
	Rideselling	11.2.4	Fastening systems	11.5.8 11.5.9	Monitoring- / Warning- /
	Ridesharing	11.2.5	Lighting systems	11.5.9	Alarm systems
	Taxiservices	11.2.6	Concrete vibrators	11.5.10	Safety lighting
10.6.14	Vertical Take-Off and Landing VTOL	11.2.7 11.2.8	Ground freezing Ground stabilisation		Escape route doors
10.6.15		11.2.8			Fire protection doors
10.0.13	Other	11.2.9	Improvement of land Electrification	11.6	Communication
			Electrotechnology	11.6.1	Radio systems
Tunne	el Construction		Dedusting systems	11.6.2	Interphone systems
			Drainage and pump systems	11.6.3	Internet systems
11.	Tunnel Construction		Rock bolts / anchors	11.6.4	Underground communications
11.1	Construction machines, -parts		Gas-extraction equipment /	11.6.5	Managementsystems
44.4.4	and components	11.2.13	systems	11.6.6	Software
11.1.1	Equipment for removing excavated material	11.2.16	Impregnate / Sealing of facing	11.6.7	Telecommunication
11.1.2	Power plant	11.2.17	Air conditioning / ventilation	11.6.8	Video systems
11.1.3	Rock-crushing equipment	11.2.18	Air conduction systems	11.7	Services / Consulting
11.1.4	Building site equipment	11.2.19	Air cleaning / waste-air disposal	11.7.1	Calls for tenders / drafting and
11.1.5	Drilling platforms, supports	11.2.20	Technical engineering and		awarding contracts
	and accessories		terotechnology	11.7.2	Construction-site logistics
11.1.6	Hammer drill	11.2.21	Relining	11.7.3	Authorities
11.1.7	Drilling steels and rock drilling		Pipes and pipe connections	11.7.4	Consultancy
	bits		Shaft sinking	11.7.5	Operational, environmental and safety equipment / systems
11.1.8	Drilling derricks		Shaft linings	11.7.6	Documentation
11.1.9	Moisture separators	11.2.25	Slurry walls, shields and	11.7.7	Trade publications
	Conveyor belt and -systems	11 2 20	trenches	11.7.8	Financing / Insurance
	Geotechnical instruments		Drill-and-blast tunnelling	11.7.9	Geology
11.1.12	Track transport and carrying		Tunnel supports		Geotechnical services
11 1 12	devices Pick wheels		Power systems Tunnel coatings		Engineering services
	Hydraulic excavators & breakers		Tunnel membranes, water stops		Expert services
	Injection devices and		Planking		Monitoring harmful substances
11.1.13	accessories		Reinforcement and tensioning		System analysis, -development
11.1.16	Injection packer and accessories	11.2.32	device	11.7.15	Technology centre
	Injection hose systems	11.2.33	Gates and doors	11.7.16	Associations, organisations
	Cables and accessories	11.3	Building and other materials	11.7.17	Publishers
11.1.19	Compressors and pneumatical	11.3.1	Concrete	11.7.18	Measurement
	tools	11.3.2	Bitumen	11.7.19	Contract and claims-, project
	Cranes / Lifting equipment	11.3.3	Injection products		and construction management
11.1.21	Machines and systems for track	11.3.4	Gypsum	11.7.20	Science, research & development
11 1 22	construction	11.3.5	Lime	11 7 21	Certification
11.1.22	Microtunnelling and trenchless headings	11.3.6	Gravel	11.8	Clothing / Workwear
11 1 23	Piling equipment / systems	11.3.7	Mortar	11.8.1	Geo textiles
	Pumps	11.3.8	Sand	11.8.2	Headgear
	Shaft boring devices	11.3.9	Foam and polymeres	11.8.3	Protective clothing
	Lining and scaffolding	11.3.10		11.8.4	Shoes
	Excavating machines for slurry		Explosives	11.9	Other
	trenches		Shotcrete / Concrete additives		
11.1.28	Probe / diamond core cutters	11.3.13			
11.1.29	Rail-head equipment / drilling		Grouting materials		
	jibs		Cement and additives		
	Transport- and feed systems	11.4	<u>Maintenance</u>		
	Tunnel boring machines	11.4.1	Preservation, decontamination,		
	Full face TBMs	11.4.2	backfitting Hydraulic service equipment		
11.1.33	Grouting, pouring and	11.4.2	Lubricants		
11 1 24	injection machines	11.4.3	Tunnel maintenance		
11.1.54	Heading shields	11.4.4	runner manitenance		

11.5

Safety features

11.5.4 Protection against dangers

11.5.1 Safety at work11.5.2 Site safety

11.5.3 Fire protection

11.1.35 Capstans

11.2

11.1.36 Crushing machines

11.1.37 Access equipment

<u>Finishing</u>

11.2.1 Support devices / support