Ultrasonic cleaning lines for wires



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			30/03-03/0
1	Machinery for the manufacture of rods,	2.5.4	Coating lines for wires
1	wires and strips	2.5.4.1	Galvanic wire plating lines
	Wiles and Strips	2.5.4.2	Enamelling lines for wires
1.1	Casting	2.5.5	Cleaning lines for coils
1.1.1	Continuous casting lines		3 · · · · · · · · · · · · · · · · · · ·
1.1.2	Other casting systems	2.6	Machinery for the manufacture of cables
1.1.3	Continuous cast rod process lines (CCR process)	2.6.1	Pay-off systems for wires and cables
1.1.5	continuous cast rou process times (cent process)	2.6.2	Bunching machines
1.2	Rolling	2.6.3	Foil pay-off and taping systems
1.2.1	Hot rolling lines	2.6.4	Accumulators
1.2.2	Cold rolling lines	2.6.5	Stranding machines
1.2.2	cota rotting times	2.6.5.1	Bow stranding machines
1.3	Extrusion	2.6.5.2	Rigid stranding machines
1.3.1	Extrusion lines (for metals)	2.6.5.3	Tubular stranding machines
1.5.1	Extrusion times (for inetacs)	2.6.5.4	Planetary stranding machines
1.4	Drawing	2.6.5.5	Drum twisters
1.4.1	Drawing Rod breakdown lines	2.6.6	Braiding machines
1.4.1	ROU DIEdKUOWII LIIIES	2.6.7	Spiraling machines
		2.6.8	Winding machines for braiding bobbins
	Machinery for the processing of rods,	2.6.9	Powder-coating machines
2	wires and strips	2.6.10	Compounding plants
	wifes and strips	2.6.11	Extrusion lines
2.1	Handling austana	2.6.12	Sheathing lines
2.1	Handling systems	2.6.13	Crosslinking lines
2.1.1 2.1.2	Wire pay-off systems	2.6.14	Cutting and crimping machines
	Rewinding systems for wire	2.6.15	Machines for cable marking
2.1.3	Coilers and spoolers for wire	2.6.16	Lead extruders
2.1.4	Machines for the strapping of coils	2.6.17	Take-ups and coilers for cables
2.2	Marking on the second of and	2.6.18	Spoolers for cables
2.2	Machinery for the processing of rods	2.6.19	Haul-off devices for cables
2.2.1	Rod straightening machines	2.6.19.1	Wheel / disc type haul-offs
2.2.2	Rod cutting machines	2.6.19.2	Belt type haul-offs
2.2.3	Rod straightening and cutting machines	2.6.19.3	Caterpillar haul-offs
2.2.4	Rod drawing machines	2.6.20	Cable stripping machines
2.2.5	Rod separating machines	2.6.21	Machines for the repair of cables
2.2.6	Rod peeling machines	2.6.22	Coil / spool winding lines
2.2.7	Bundling and tying-off lines for rods	2.6.23	Peripheral systems for cable production
2.2.8	Pointing machines for rods	2.0.23	remplierat systems for cable production
2.3	Machinery for the processing of wires and strips	2.7	Machinery for the manufacture of fibre optics
2.3.1	Wire single-block drawing systems	2.7.1	Drawing lines for fibre optics
2.3.2	Multiple drawing machines for wire	2.7.2	Ink coating devices for fibre optics
2.3.3	ire stretching lines	2.7.3	Stranding machines for fibre optics
2.3.4	Draw-peeling machines for wire	2.7.4	Spooling systems for fibre optics
2.3.5	Wire reduction rolling mills	2.7.5	Stranding lines for fibre optics
2.3.6	Strip rolling mills	2.7.6	Lines for the assembly of fibre optics
2.3.7	Pointing and threading up machines for wire	2.7.7	Machines for the marking of fibre optics
2.3.8	Butt welding machines		,
2.3.9	Single-wire drawing machines	2.8	Machinery for the manufacture of wire ropes
2.3.3	(intermediate, fine and superfine wire drawing)	2.8.1	Stranding machines for wire ropes
2.3.10	Multiwire drawing machines	2.8.2	Stranding machines for steel cord
2.3.11	Tandem wire drawing lines for telephone cables	2.8.3	Machines for the assembly of wire ropes
2.3.12	Inline wire drawing lines for data cables		
2.3.13	Machines for the manufacture of enamelled wires	2.9	Machinery for the manufacture of wire mesh,
2.3.13	riacinites for the manufacture of enametted wifes		wire cloth and wire netting
2.4	Machinery for the heat treatment of wires and strips	2.9.1	Wire mesh welding machines
2.4.1	Continuous resistance annealers	2.9.2	Wire weaving machines
2.4.2	Bell furnaces	2.9.3	Wire netting machines
2.4.2	Continuous induction annealers	2.9.3.1	Chain link fence machines
2.4.3	continuous muuction aimeateis	2.9.3.2	Hexagonal wire netting machines
2.5	Machinery for the surface treatment of wires and strips		g
2.5.1	Pickling and descaling lines for wires	2.10	Machinery for the manufacture of springs, chains,
2.5.1	Brushing lines for wire rod	_,	and punched and bent parts
2.5.2	Wire cleaning lines	2.10.1	Tension spring coiling machines
2.5.3.1	Ultrasonic cleaning lines for wires	2.10.2	Torsion / leg spring coiling machines
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2.10.3	Compression spring coiling machines	3	Tools and auxiliary materials and agents
2.10.4	Spring end grinding machines		for the manufacture of drawn wire and
2.10.5	Spiral spring coiling machines		the further processing of wire products
2.10.6	Other spring coiling machines		
2.10.7	Chain bending machines	3.1	Tools for wire production
2.10.8	Chain welding machines	3.1.1	Rolling tools
2.10.9	Chain bending and welding machines	3.1.2	Drawing tools
2.10.10	Chain calibration machines	3.1.2.1	Drawing capstans
2.10.11	Bending machines	3.1.2.2	Wire pullers
2.10.11.1	Single-head wire bending machines	3.1.2.3	Drawing dies with natural diamond (ND)
2.10.11.2	Multiple-head wire bending machines	3.1.2.4	Drawing dies with polycrystalline diamond (PCD)
2.10.11.3	Wire and strip bending machines	3.1.2.5	Hard metal dies
2.10.11.4	Ring coiling machines	3.1.3	Machines for drawing die processing
2.10.12	Punching and bending machines	3.1.4	Tools for the manufacture of cables, fibre optics
2.10.13	Processing centers for punched and bent parts	51211	and wire ropes
		3.1.4.1	Wire guidings, fiber guidings and cable guidings
2.11	Machinery for the manufacture of fasteners	3.1.4.2	Compacting tools
	(bulk metal forming)	3.1.4.3	Stranding dies
2.11.1	One-stage presses	3.1.4.4	Bows for rotating machines
2.11.2	Multi-stage presses	3.1.4.5	Extrusion dies
2.11.3	Wire nail presses	3.1.5	Tools for the manufacture of springs
2.11.4	Micro-forming machines	3.1.5.1	Grinding wheels for spring end grinding machines
2.11.5	Thread rolling machines	3.1.6	Tools for the manufacture of fasteners
2.11.6	Profile rolling machines	3.1.6.1	Tools for thread rolling
2.11.7	Thread cutting machines	3.1.0.1	roots for timead rotting
2.11.8	Forging presses	2.0	Annals for the management
2.11.9	Other machines for bulk metal forming	3.2	Agents for wire processing
2.11.9	other machines for back metal forming	3.2.1	Pickling agents
2.12	Machinery for the manufacture of other wire products	3.2.2	Cleaning agents
2.12.1	Barbed wire machines	3.2.3	Drawing agents
2.12.1	Wire knitting machines	3.2.4	Lubricants
2.12.2	Manufacturing machines for cut wire shot	3.2.5	Other chemicals
2.12.3			
	Manufacturing machines for other wire products	3.3 3.3.1	Materials and agents for cable production Insulating and sheathing materials for cables
2.13	Machinery for the heat treatment of bulk goods made	3.3.1.1	Polymers
	from wire or strip	3.3.1.2	Flame-retardant, halogen-free polymers
2.13.1	Salt-bath furnaces	3.3.1.3	Elastomers
2.13.2	Conveyor furnaces	3.3.1.4	Silicones
		3.3.1.5	Natural rubber
2.14	Machinery for the surface treatment of wire products	3.3.1.6	Tapes made of paper, textile and non-woven
2.14.1	Cleaning lines for wire products		materials
2.14.2	Coating lines for wire products	3.3.1.7	Resins and varnishes for wire insulation
2.14.3	Shot blasting machines for springs	3.3.2	Additives for insulating and sheathing materials
2.14.4	Vibratory finishing machines for wire products	3.3.2.1	Colorants
		3.3.2.2	Fillers
2.15	Sorting machinery for wire products	3.3.2.3	Flame-retardant substances
2.15.1	Sorting machines for springs	3.3.2.4	Other additives
2.15.2	Sorting machines for punched and bent parts	3.3.3	Yarns and foils for cables and ropes
2.15.3	Sorting machines for fasteners	3.3.3.1	Reinforcing yarns and filler yarns for cables
2.15.4	Sorting machines for other wire products	3.3.3.2	Water swellable yarns for cables
		3.3.3.3	Yarns for steel wire ropes
2.16	Machinery for additive manufacturing (3D printing)	3.3.3.4	Foils for cables
		3.3.3.5	Non-woven tapes for cables
2.17	Second-hand machines for the wire and cable industry	3.3.3.6	Other reinforcing elements for cables
2.18	Spare and wear parts for the wire and cable industry	3.4	Handling systems for the wire and cable industry
1		3.4.1	Headstocks
		3.4.2	Spools
		3.4.2 3.4.2.1	Spools Steel spools
		3.4.2 3.4.2.1 3.4.2.2	Spools Steel spools Wooden spools
		3.4.2 3.4.2.1 3.4.2.2 3.4.2.3	Spools Steel spools
		3.4.2 3.4.2.1 3.4.2.2	Spools Steel spools Wooden spools

3.4.2.6

Cable reels / drums

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3.4.3	Barrels
3.4.4	Cardboard containers and disposable containers
3.4.5	Other containers
3.5	Robot technology for the wire and cable industry
3.6	Logistics for the wire and cable industry
3.6.1	Machines for the counting, weighing and sorting of wire
	products
3.6.2	Dosing machines
3.6.3	Packing / packaging machines
3.6.4	Conveyor systems
3.6.5 3.6.6	Warehouse systems, storage systems Packaging materials
3.0.0	rackaging materials
3.7	Marking and labelling systems
3.8	Others
4	Wire and wire products
	•
4.1	Wire
4.1.1 4.1.1.1	Wire, related to its shape and dimension Wire rod
4.1.1.2	Drawn or cold-rolled wire
4.1.1.3	Round / rounded wire
4.1.1.4	Fine wire
4.1.1.5	Superfine wire
4.1.1.6	Ultra-fine wire
4.1.1.7	Flat / flattened wire
4.1.1.8	Profile / profiled wire
4.1.2	Wire, related to its material: Iron and steel
4.1.2.1	Iron wire, bare
4.1.2.2	Iron wire with metallic coating
4.1.2.3	Iron wire with non-metallic coating
4.1.2.4 4.1.2.5	Steel wire, bare Steel wire with metallic coating
4.1.2.6	Steel wire with non-metallic coating
4.1.2.7	Low alloy steel wire
4.1.2.8	High alloy steel wire
4.1.2.9	Stainless steel wire
4.1.2.10	Wire made of other steels
4.1.3	Wire, related to its material: Non-ferrous materials
4.1.3.1	Aluminium wire / aluminium alloy wire
4.1.3.2	Copper wire / copper alloy wire
/ 4 2 2	(such as brass wire or bronze wire)
4.1.3.3	Magnesium wire
4.1.3.4 4.1.3.5	Nickel wire German silver wire
4.1.3.6	Chromium-nickel wire
4.1.3.7	Gold wire
4.1.3.8	Platinum wire
4.1.3.9	Silver wire
4.1.3.10	Lead wire
4.1.3.11	Zinc wire
4.1.3.12	Tin wire
4.1.3.13	Titanium wire
4.1.3.14	Tungsten (wolfram) wire
4.1.3.15	Beryllium wire
4.1.3.16	Molybdenum wire
4.1.3.17	Niobium wire
4.1.3.18	Tantalum wire
4.1.3.19	Zirconium wire

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4.1.3.20	Wire made of other metals and alloys
4.1.4	Wire, related to its application
4.1.4.1	Reinforcing wire / armouring wire
4.1.4.2	Cold-upsetting wire / cold heading wire
4.1.4.3	Screw wire
4.1.4.4	Spring steel wire
4.1.4.5	Spring wire made of non-ferrous metals
4.1.4.6	Rope wire
4.1.4.7	Netting wire
4.1.4.8	Wire for architectural wire mesh
4.1.4.9	Brazing wire / soldering wire
4.1.4.10	Eroding wire
4.1.4.11	Metallizing wire
4.1.4.12	Carrying wire for fiber-optic cables
4.1.4.13	Enamelled wire / magnet wire / winding wire
4.1.4.14	Electronic wire
4.1.4.15	Heating / heat conducting wire / resistance wire
4.1.4.16	Stitching wire
4.1.4.17	Teabag wire
4.1.4.18	Staple wire
4.1.4.19	Lightning protection wire
4.1.4.20	Tyre wire
4.1.4.21	Welding wire / cored wire / filler rod
4.1.4.22	Wire for brushes
4.1.4.23	Binding wire
4.1.4.24	Florist's wire
4.1.4.25	Barbed wire
4.1.4.26	Wire for other purposes
4.2	Wire ropes
4.2.1	Wire ropes made from stainless steel
4.2.2	Wire ropes made from galvanized steel
4.2.3	Customized wire ropes
4.2.4	Wire rope accessories
4.3	Cables
4.3.1	Conductor ropes
4.3.2	Underwater cables
4.3.3	Underground cables
4.3.4	Extra-high voltage cables (EHV)
4.3.5	High voltage cables (HV)
4.3.6	Medium voltage cables (MV)
4.3.7 4.3.8	Low voltage cables (LV) Telecommunication cables
4.3.9	LAN cables
4.3.10	Control cables
4.3.11	Computer cables
4.3.12	Flat cables
4.3.12	Automotive cables
4.3.14	Battery cables
4.3.15	Marine cables
4.3.16	Railway cables
4.3.17	Photovoltaic cables
4.3.18	Installation cables
4.3.19	Fibre optic cables
4.3.20	Hybrid cables
4.3.21	Other special cables
4.4	Springs
4.4.1	Metallic springs and spring elements
4.4.1.1	Tension springs / helical extension springs
4.4.1.2	Compression springs / helical compression springs
4.4.1.3	Torsion springs / leg springs
4.4.1.4	Bending springs / strip springs / leaf springs

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4.4.1.5	Special shaped springs	4.6.1.2	Wood screws
4.4.1.6	Conical springs	4.6.1.3	Chipboard scr
4.4.1.7	Roller- and mainsprings	4.6.1.4	Lock screws
4.4.1.8	Annular springs	4.6.1.5	Anchor bolts
4.4.1.9	Spiral springs	4.6.1.6	Suspension so
4.4.1.10	Torsion bar springs	4.6.1.7	Self drilling s
4.4.1.11	Disc springs	4.6.1.8	Screws with c
4.4.1.12 4.4.1.13	Spring rings (Belleville springs) Spring washers	4.6.1.9 4.6.1.10	Screws with c Fine-thread so
4.4.1.14	Clamping washers	4.6.1.11	
4.4.1.15	Securing elements	4.6.1.12	
4.4.1.16	Snap rings	4.6.1.13	
4.4.1.17	Shaft rings	4.6.1.14	
4.4.1.18	Splints	4.6.1.15	Screws with s
4.4.1.19	Micro springs	4.6.1.16	Screws with t
4.4.1.20	Other spring components	4.6.1.17	Screws with o
4.4.1.21	Assemblies with other elements	4.6.1.18	
4.4.2	Non-metallic springs and spring elements	4.6.1.19	
4.4.2.1	Elastomer springs (rubber springs)	4.6.1.20	
.4.2.2	Springs made of plastics	4.6.1.21	
.4.2.3	Springs made of fiber composite materials	4.6.1.22	
.4.2.4 .4.2.5	Springs made of ceramics Fluid springs	4.6.1.23 4.6.1.24	•
4.4.2.5 4.4.2.6	Air springs Air springs (gas spring)	4.6.1.25	
.4.2.7	Spring and securing elements	4.6.1.26	•
4.4.2.8	Other non-metallic spring elements	4.6.1.27	Screws with e
i.4.3	Starting materials for springs	4.0.1.27	screws
4.4.3.1	Rod material for springs	4.6.1.28	Screws with i
.4.3.2	Round wire for springs	4.6.1.29	Screws with h
4.4.3.3	Flat wire for springs		cap screws
.4.3.4	Profile wire for springs	4.6.1.30	Screws with h
.4.3.5	Strip for springs	4.6.1.31	Screws with i
.4.3.6	Spring steel	4.6.1.32	
.4.3.7	Other steel types for springs	4.6.1.33	Screws with c
.4.3.8	Copper and copper alloys for springs		screws
.4.3.9	Aluminium and aluminium alloys for springs	4.6.1.34	
.4.3.10	Other metals and alloys for springs Non-metallic materials for springs	4.6.1.35 4.6.2	Screws with of Further faster
.4.4	Springs, related to forming process and condition	4.6.2.1	Threaded rods
.4.4.1	Hot-formed springs	4.6.2.2	Bolts
.4.4.2	Cold-formed springs	4.6.2.3	Pins
.4.4.3	Heat-treated springs	4.6.2.4	Nails
.4.4.4	Surface-treated springs	4.6.2.5	Rivets
.4.4.5	Coated springs	4.6.2.6	Hooks
.4.4.6	Greased springs	4.6.2.7	Nuts
.4.4.7	Cleaned springs	4.6.2.8	Threaded inse
.4.4.8	Other treated springs	4.6.2.9	Washers (see
4.4.5	Packages for springs	4.6.2.10	Other elemen
4.4.5.1	Blister packages for springs	4.6.2.11	Assemblies w
4.4.5.2	Cartons for springs	4.6.3	Non-metallic
4.4.5.3	PE bags for springs	4.6.3.1	Screws made
4.4.5.4	Plastic hoses for springs	4.6.3.2	Nuts made fro
4.4.5.5	Other packages for springs	4.6.3.3	Safety elemen
4.5	Punched and bent parts	4.6.3.4	
4.5.1	Punched / stamped parts	4.6.4.1	Starting mate Round wire fo
i.5.2	Bent parts (such as staples, paper clips, brackets)	4.6.4.2	Rod material
i.5.2	Hose clamps	4.6.4.3	Cold heading
i.5.4	Complete assemblies	4.6.4.4	Other steels 1
.5.5	Other punched and bent parts	4.6.4.5	Copper and co
	and the second s	4.6.4.6	Aluminium ar
4.6	Fasteners	4.6.4.7	Other metals
.6.1	Metallic screws	4.6.4.8	Non-metallic

4.6.1.2	Wood screws
4.6.1.3	Chipboard screws
4.6.1.4	Lock screws
4.6.1.5	Anchor bolts
4.6.1.6	Suspension screws
4.6.1.7	Self drilling screws
4.6.1.8	Screws with conical shank
4.6.1.9	Screws with cylindrical shank
4.6.1.10	Fine-thread screws
4.6.1.11	Flat-thread screws
4.6.1.12	Round-thread screws
4.6.1.13	Screws with buttress thread
4.6.1.14	Self drilling screws / thread cutting screws
4.6.1.15	Screws with sharp thread
4.6.1.16	Screws with trapezoidal thread
4.6.1.17	Screws with other thread forms
4.6.1.18	Mushroom head screws
4.6.1.19	Half-round head screws
4.6.1.20	Truncated cone head screws
4.6.1.21	Round-head screws
4.6.1.22	Raised countersunk-head screws
4.6.1.23	Tapered head screws
4.6.1.24	Screws with decorative head
4.6.1.25	Cylinder head screws
4.6.1.26	Screws with external hexagon drive / hex head screws
4.6.1.27	Screws with external square drive / square-head
	screws
4.6.1.28	Screws with internal square drive
4.6.1.29	Screws with hexagon socket drive / hex socket head
	cap screws
4.6.1.30	Screws with hexalobular drive
4.6.1.31	Screws with internal serrated drive
4.6.1.32	Screws with I-star drive
4.6.1.33	Screws with cruciform-style drive / cross recessed
	screws
4.6.1.34	Screws with longitudinal slot drive / slotted screws
4.6.1.35	Screws with other drive types
4.6.2	Further fasteners
4.6.2.1	Threaded rods / thread rods
4.6.2.2	Bolts
4.6.2.3	Pins
4.6.2.4	Nails
4.6.2.5	Rivets
4.6.2.6	Hooks
4.6.2.7	Nuts
4.6.2.8	Threaded inserts / thread inserts
4.6.2.9	Washers (see also 4.4.1)
4.6.2.10	Other elements
4.6.2.11	Assemblies with other elements
4.6.3	Non-metallic fasteners
4.6.3.1	Screws made from polymers
4.6.3.2	Nuts made from polymers
4.6.3.3 4.6.3.4	Safety elements made from polymers Other elements
4.6.4	Starting materials for fasteners Round wire for fasteners
4.6.4.1	
4.6.4.2	Rod material for fasteners
4.6.4.3	Cold heading steel / cold upsetting steel
4.6.4.4	Other steels for fasteners
4.6.4.5	Copper and copper alloys for fasteners
4.6.4.6	Aluminium and aluminium alloys for fasteners
4.6.4.7	Other metals and alloys for fasteners
4.6.4.8	Non-metallic materials for fasteners

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4.6.5	Finished products in relation to the manufacturing	5.3	Sensor technology
	(forming) process and the final condition	5.3.1	Sensors for wire and cable machinery
4.6.5.1	Cold-formed screws	5.3.2	Sensor evaluation systems (see also 7.1)
4.6.5.2	Hot-formed screws		
4.6.5.3	Machined screws		
4.6.5.4	Coated screws	6	Environmental technologies and resource
4.6.5.5	Cleaned screws	•	efficiency for the wire and cable industry
4.6.5.6	Surface-treated screws		
4.6.5.7	Heat-treated screws	6.1	Cooling and cleaning systems for drawing agents
4.6.6	Packages for fasteners	6.0	F11
4.6.6.1	Blister packages for fasteners	6.2	Filtration systems and filters for drawing machines
4.6.6.2 4.6.6.3	Cartons for fasteners PE bags for fasteners	6.3	Water treatment plants
4.6.6.4	Plastic hoses for fasteners	0.5	Water treatment plants
4.6.6.5	Other packages for fasteners	6.4	Air exhaust systems
4.6.7	Tightening / screwdriving and stapling tools	0.4	All exhaust systems
4.6.7.1	Manually operated tightening tools	6.5	Storage systems for chemicals
4.6.7.2	Electrically driven tightening tools	0.5	Storage systems for chemicals
4.6.7.3	Automatically operating tightening tools	6.6	Processing systems for chemicals
4.6.7.4	Stapling and nailing and tools	0.0	riocessing systems for enamedia
4.6.7.5	Riveting machines	6.7	Recycling systems for chemicals
4.6.7.6	Clinching systems	517	necycling systems for enclinears
	og oyoto	6.8	Disposal systems for chemicals
4.7	Other wire products		2.000000 3,000
4.7.1	Round steel chains		
4.7.2	Elements for link chains	7	Software and various services for the
4.7.3	Ball bearings	7	wire and cable industry
	J		•
		7.1	Software
5	Testing technology, sensor technology	7.1.1	Software for the design of springs
7	and quality assurance for the wire and	7.1.2	Software for the design of fasteners
	cable industry	7.1.3	Software for the design of cables
		7.1.4	Software for the design of other wire products
5.1	Materials testing	7.1.5	Simulation systems
5.1.1	Equipment for destructive materials testing	7.1.6	Production Data Acquisition (PDA) systems
5.1.2	Equipment for non-destructive materials testing	7.1.7	Enterprise Resource Planning (ERP) systems
5.1.3	Hardness testers	7.1.8	Manufacturing Execution Systems (MES)
5.1.4	Vibration test equipment	7.0	
		7.2	Services
5.2	Product testing	7.2.1	Reconditioning services for drawing dies
5.2.1	Tension measuring equipment	7.2.2	Technical consulting
5.2.2 5.2.3	Optical test systems for wire Diameter measuring devices	7.2.3 7.2.4	Industry 4.0: Consulting and solutions Market, technology and competition monitoring
5.2.4	Profile testers	7.2.4	Patent information
5.2.5	Concentricity testers	7.2.6	Testing laboratories
5.2.6	Ovality testers	7.2.7	Certifications
5.2.7	Geometry testers	7.2.8	Others
5.2.8	Eddy current test instruments	7.2.0	outers
5.2.9	Ultrasonic test equipment	7.3	Education and training
5.2.10	X-ray inspection equipment	7.0	
5.2.11	Temperature measuring equipment	7.4	Research and teaching
5.2.12	Rope testing equipment		č
5.2.13	Capacitance meters	7.5	Wholesale
5.2.14	Spark testers		
5.2.15	Analytical equipment	7.6	Specialist literature / publishing houses
5.2.16	Spring force measuring instruments		
5.2.17	Optical testing systems for wire products	7.7	Associations
5.2.18	Testing machines for springs		
5.2.19	Testing machines for punched and bent parts		
5.2.20	Testing machines for fasteners		
5.2.21	Testing machines for other wire products		
5.2.22	Empty bobbin detection systems		
5.2.23	Test benches		