

# Overview of product groups

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- |   |   |
|---|---|
| <b>1 Assembly and handling technology</b> | <b>6 Sensor technology</b>  |
| <b>2 Robotics</b>                         | <b>7 Control systems technology and industrial communications</b> |
| <b>2.1 Industrial robots</b>              | <b>8 Safety and security technology</b>                           |
| <b>2.2 Professional service robotics</b>  | <b>9 Supply technology</b>  |
| <b>3 Machine vision</b>                   | <b>10 Software and cloud computing</b>                            |
| <b>4 Positioning systems</b>              | <b>11 Services and service providers</b>                          |
| <b>5 Drive technology</b>                 | <b>12 Research and technology</b>                                 |

## Product groups

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|---|--|---|
| <b>1 Assembly and handling technology</b>                         | <b>1.3 Equipment for storage</b>                               | 1.6.6 Conveyor section profiles                               |
|   | 1.3.1 Storage boxes  | 1.6.7 Slide rails   |
| <b>1.1 Assembly stations and systems</b>                          | 1.3.2 Hoppers  | 1.6.8 Lateral guides  |
| 1.1.1 Assembly stations and systems, linear transfer              | 1.3.3 Magazines  | 1.6.9 Leg sets  |
| 1.1.2 Assembly stations and systems, rotary transfer              | 1.3.4 Pallet systems and palletizing units                     | 1.6.10 Return unit stations                                   |
| 1.1.3 Assembly systems (continuous motion)                        | <b>1.4 Equipment for organizing, sorting and feeding</b>       | 1.6.11 Curves   |
| 1.1.4 Modular assembly platforms                                  | 1.4.1 Separating equipment                                     | 1.6.12 Dividers   |
| 1.1.5 Assembly stations, manually feeded                          | 1.4.2 Disentangling equipment (seperators)                     | 1.6.13 Backstops  |
| 1.1.6 Assembly systems for pliable parts                          | 1.4.3 Sorting equipment  | 1.6.14 Workpiece carriers orientation                         |
| <b>1.2 Assembly systems for specific fields of application</b>    | 1.4.4 Vibrating feeders, rotary                                | 1.6.15 Lift transverse units                                  |
| 1.2.1 Assembly systems for medical/pharmaceutical applications    | 1.4.5 Vibrating feeders, linear                                | 1.6.16 Transportation controls                                |
| 1.2.2 Assembly systems for food industry applications             | 1.4.6 Step feeders   | 1.6.17 Identification and data-storage systems                |
| 1.2.3 Assembly systems for explosive areas                        | 1.4.7 Hopper elevators (Steep feeders)                         | <b>1.7 Equipment for fastening and joining</b>                |
| 1.2.4 Assembly systems for ESD areas                              | 1.4.8 Centrifugal feeders                                      | 1.7.1 Screw driving units, manually operated                  |
| 1.2.5 Assembly systems for electrical engineering and electronics | 1.4.9 Flexible feeding systems                                 | 1.7.2 Screw driving units, automatically operated             |
| 1.2.6 Assembly systems for clean-rooms                            | <b>1.5 Equipment for linking and transport</b>                 | 1.7.3 Screw driving units, stationary                         |
| 1.2.7 Assembly systems for micro technology                       | 1.5.1 Chain conveyors  | 1.7.4 Rivetting units   |
| 1.2.8 Packaging machines  | 1.5.2 Belt conveyors   | 1.7.5 Presses, manual   |
| 1.2.9 Systems for the production of springs                       | 1.5.3 Magnetic monorail systems (linear motors)                | 1.7.6 Presses, electrical                                     |
| 1.2.10 Assembly systems for the production of photovoltaics       | 1.5.4 Roller conveyors   | 1.7.7 Presses, pneumatic                                      |
| 1.2.11 Assembly systems for composites                            | 1.5.5 Rotary indexing tables                                   | 1.7.8 Presses, hydropneumatic                                 |
| 1.2.12 Assembly systems for battery production                    | 1.5.6 Belt feed unit   | 1.7.9 Presses, hydraulic                                      |
|   | 1.5.7 Workpiece carrier systems                                | 1.7.10 Punching units   |
|   | 1.5.8 Elevators  | 1.7.11 Welding units  |
|   | 1.5.9 Lifting and tilting units                                | 1.7.12 Soldering units  |
|   | 1.5.10 Vacuum lifting devices                                  | 1.7.13 Dosing, gluing, application, coating and sealing units |
|   | <b>1.6 Components for linking and transportation equipment</b> | 1.7.14 Tox/Clinching units                                    |
|   | 1.6.1 Chains   | <b>1.8 Equipment for marking</b>                              |
|   | 1.6.2 Belts  | 1.8.1 Printing systems  |
|   | 1.6.3 Rollers/wheels   | 1.8.2 Embossing and engraving systems                         |
|   | 1.6.4 Workpiece carriers                                       | 1.8.3 Laser marking systems                                   |
|   | 1.6.5 Drives   | 1.8.4 Labeling systems  |



# Product groups (Continuation)

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- 1.9 Test systems**
    - 1.9.1 Test equipment for materials, components and structures
    - 1.9.2 Test equipment for functional and durability testing
    - 1.9.3 Test equipment for electronics
    - 1.9.4 Weighing devices
    - 1.9.5 Measuring devices
  - 1.10 Basis and construction elements**
    - 1.10.1 Levelling elements
    - 1.10.2 Profiles
    - 1.10.3 Connections
    - 1.10.4 Joints
    - 1.10.5 Surface elements
  - 1.11 Manual workplace systems**
    - 1.11.1 Manual handling manipulators
    - 1.11.2 Assembly cells
    - 1.11.3 Individual assembly work places
    - 1.11.4 Assembly tools
    - 1.11.5 Assembly assistance systems
  - 1.12 Workplace equipment**
    - 1.12.1 Assembly tables
    - 1.12.2 Work table accessories
    - 1.12.3 Supply of materials
    - 1.12.4 On-hand information
    - 1.12.5 Lights
    - 1.12.6 Chairs
  - 1.13 Packaging units**
  - 1.14 Surface Treatment**
    - 1.14.1 3D laser polishing and microstructuring
- 
- 2 Robotics**
    - 2.1 Industrial robots**
      - 2.1.1 Industrial robots, listed by type of construction**
        - 2.1.1.1 Linear robots, gantry robots
        - 2.1.1.2 Horizontally articulated robots (SCARA-robots)
        - 2.1.1.3 Vertically articulated robots
        - 2.1.1.4 Articulated robots
        - 2.1.1.5 Parallel link robots (e.g. linapods, tripods, hexapods)
        - 2.1.1.6 Industrial robots, special design
        - 2.1.1.7 Micro robots
      - 2.1.2 Components for robot systems**
        - 2.1.2.1 Jigs and fixtures
        - 2.1.2.2 Tool changing systems
        - 2.1.2.3 Robot measurement systems
        - 2.1.2.4 Peripherals for painting and coating
        - 2.1.2.5 Peripherals for dosing, gluing, application, coating and sealing
        - 2.1.2.6 Peripherals for spot welding
        - 2.1.2.7 Peripherals for arc welding
        - 2.1.2.8 Peripherals for processing applications
        - 2.1.2.9 Peripherals for cutting
        - 2.1.2.10 Peripherals for laser applications
        - 2.1.2.11 Peripherals for clean-rooms
      - 2.1.3 Industrial robots for specific fields of application**
        - 2.1.3.1 Industrial robots for painting and coating
        - 2.1.3.2 Industrial robots for sealing and gluing
        - 2.1.3.3 Industrial robots for spot welding
        - 2.1.3.4 Industrial robots for arc welding
        - 2.1.3.5 Industrial robots for processing
        - 2.1.3.6 Industrial robots for cutting
        - 2.1.3.7 Industrial robots for laser applications
        - 2.1.3.8 Industrial robots for assembling
        - 2.1.3.9 Industrial robots for measuring and testing
        - 2.1.3.10 Industrial robots for palettizing
        - 2.1.3.11 Industrial robots for pick & place and packaging
        - 2.1.3.12 Industrial robots for loading/unloading presses
        - 2.1.3.13 Industrial robots for loading/unloading die cast machines
        - 2.1.3.14 Industrial robots for loading/unloading injection moulding machines
      - 2.1.3.15 Industrial robots for loading/unloading machine tools
      - 2.1.3.16 Industrial robots for other material handling tasks
      - 2.1.3.17 Industrial robots for electrical engineering and electronics
      - 2.1.3.18 Industrial robots for food industry applications
      - 2.1.3.19 Industrial robots for clean-rooms
      - 2.1.3.20 Industrial robots for laboratories
      - 2.1.3.21 Industrial robots for micro technology applications
      - 2.1.3.22 Industrial robots for use in hostile environments
      - 2.1.3.23 Industrial robots for research and training
      - 2.1.3.24 Industrial robots for the production of photovoltaics
      - 2.1.3.25 Industrial robots for the production of composites
      - 2.1.3.26 Industrial robots for battery production
    - 2.1.4 Industrial robots for human-robot collaboration**
    - 2.2 Professional service robotics**
      - 2.2.1 Service Robots for professional use**
        - 2.2.1.1 Field robotics
        - 2.2.1.2 Cleaning robots
        - 2.2.1.3 Inspection systems
        - 2.2.1.4 Construction and demolition robots
        - 2.2.1.5 Logistic systems
        - 2.2.1.6 Medical robotics
        - 2.2.1.7 Service robots for safety, rescue and security applications
        - 2.2.1.8 Underwater systems
        - 2.2.1.9 Mobile platforms in general use
        - 2.2.1.10 Public relation robots
        - 2.2.1.11 Other service robots for professional use
        - 2.2.1.12 Humanoid robots
      - 2.2.2 Key technologies and components for service robotics**
        - 2.2.2.1 Perception
        - 2.2.2.2 Navigation
        - 2.2.2.3 Manipulation
        - 2.2.2.4 Human-machine interaction



# Product groups (Continuation)

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<b>3</b>	<b>Machine vision</b>	<b>4.2</b>	<b>Grippers</b>	<b>5.3</b>	<b>Linear motion drive elements and systems</b>
3.1	Measuring systems for machine vision	4.2.1	Grippers, electrical	5.3.1	Acme screw drives
3.2	Components for machine vision	4.2.2	Grippers, pneumatic	5.3.2	Ball screw drives
3.2.1	Image capture hardware	4.2.3	Grippers, hydraulic	5.3.3	Roller screw drives
3.2.2	Optics and illuminations	4.2.4	2-finger parallel grippers	5.3.4	Gear rack drives
3.2.3	Image sensors	4.2.5	3-finger centric grippers	5.3.5	Toothed belt drives
3.2.4	Optical sensors	4.2.6	Suction grippers	5.3.6	Linear motors
3.2.5	Cameras	4.2.7	Foil gripper systems	5.3.7	Chain drives
3.2.6	High speed cameras	4.2.8	Needle grippers	5.3.8	Accessories for linear motion drives elements
3.2.7	Infra-red cameras	4.2.9	Adhesion grippers	5.3.9	Worm gear screw jacks
3.2.8	Processors and computer components	4.2.10	Revolving grippers	<b>5.4</b>	<b>Numeric controlled rotation axes</b>
3.2.9	Intelligent cameras	4.2.11	Micro-grippers	5.4.1	Rotation axes, pneumatical driven
3.2.10	Vision sensors	4.2.12	Carbon grippers	5.4.2	Rotation axes, electric driven
3.2.11	Software	<b>4.3</b>	<b>Clamping devices</b>	5.4.3	Rotation axes, electric driven with gear
<b>3.3</b>	<b>Machine vision systems for specific fields of application</b>	4.3.1	Clamping devices, manual	5.4.4	Rotation axes, electric driven without gear
3.3.1	Measuring and comparing 2D and 3D	4.3.2	Clamping devices, pneumatic	<b>5.5</b>	<b>Numeric controlled linear axes</b>
3.3.2	Security systems	4.3.3	Clamping devices, electrical	5.5.1	Linear axes, pneumatic driven
3.3.3	Recognition of the shape and the position	4.3.4	Clamping devices, hydraulic	5.5.2	Linear axes, electric driven with toothed belt drives
3.3.4	Identification systems and components	<b>4.4</b>	<b>Stop devices</b>	5.5.3	Linear axes, electric driven with leadscrew drives
3.3.5	Surface inspection and texture analysis	4.4.1	Stop devices, mechanical	5.5.4	Linear axes, electric driven with gear rack drives
3.3.6	X-ray inspection	4.4.2	Stop devices, electrical	5.5.5	Linear axes, electric driven with linear motors
3.3.7	Completeness check	4.4.3	Stop devices, pneumatic	<b>5.6</b>	<b>Gears</b>
3.3.8	Color inspection	4.4.4	Stop devices, hydraulic	5.6.1	Spur gear units
3.3.9	Quality inspection	4.4.5	Stop devices, magnetic	5.6.2	Bevel gear units
3.3.10	Optical code reading for 1D-codes/bar-codes and 2D-codes	<b>4.5</b>	<b>Positioning systems, pneumatic</b>	5.6.3	Worm gear units
3.3.11	Optical character recognition (OCR)	<b>4.6</b>	<b>Feed units, pneumatic</b>	5.6.4	Planetary gear units
<b>3.4</b>	<b>Embedded vision systems</b>	<b>4.7</b>	<b>Stroke feed units, pneumatic</b>	5.6.5	Variable speed drives
<b>3.5</b>	<b>Augmented reality systems</b>	<b>4.8</b>	<b>micro-positioning systems</b>	5.6.6	Precision gear units
<b>4</b>	<b>Positioning systems</b>	<b>5</b>	<b>Drive technology</b>	<b>5.7</b>	<b>Industrial motors, motor controls, motor protection devices</b>
<b>4.1</b>	<b>Modules</b>	<b>5.1</b>	<b>Bearings</b>	5.7.1	3-phase Motors
4.1.1	Rotation modules, swivel units	5.1.1	Ball bearings	5.7.2	Direct current motors
4.1.2	Linear modules	5.1.2	Roller bearings	5.7.3	Energy-saving motors
		5.1.3	Needle roller bearings		
		5.1.4	Plain bearings		
		5.1.5	Air bearings (radial)		
		5.1.6	Magnetic bearings		
		<b>5.2</b>	<b>Linear guides</b>		
		5.2.1	Sliding guides		
		5.2.2	Cam roller guides		
		5.2.3	Linear ball bearing guides		
		5.2.4	Profiled rail guides		
		5.2.5	Cage rail guides		
		5.2.6	Telescopic rail guides		
		5.2.7	Air bearings (axial)		



# Product groups (Continuation)

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5.7.4	Geared electric motors	6.5	<b>Sensors for distance and thickness</b>	7.5	<b>Freely programmable controls (FPCs)</b>
5.7.5	Servo drives	6.5.1	Distance and thickness sensors, optical	7.6	<b>Industrial PCs</b>
5.7.6	Stepping motors	6.5.2	Distance and thickness sensors, inductive	7.7	<b>BUS systems</b>
5.7.7	Frequency converters	6.5.3	Multi-layer measuring sensors	7.8	<b>Bus terminals</b>
5.7.8	Servo-drive control units	6.5.4	Distance and thickness sensors, ultrasonic	7.9	<b>Components for fieldbus systems</b>
5.7.9	Motor protection devices	6.5.5	Distance and thickness sensors, capacitive	7.10	<b>Valve islands</b>
5.7.10	Micro motors	6.5.6	Distance and thickness sensors, magnetic	7.11	<b>Servo controller</b>
<b>5.8</b>	<b>Special drives</b>	6.6	<b>Force torque sensors</b>	7.12	<b>CPU-cards</b>
5.8.1	Pneumatic motors	6.7	<b>Optoelectronic sensors</b>	7.13	<b>Power supply units</b>
5.8.2	Cylinders, electromechanical	6.7.1	Throughbeam photoelectric sensors	7.14	<b>Display and operating equipment</b>
5.8.3	Cylinders, pneumatic	6.7.2	Retro-reflective photoelectric sensors	7.15	<b>Electrical components for controls</b>
5.8.4	Pressure transformers, pneumatic	6.7.3	Diffuse reflection light scanner	7.16	<b>Industrial enclosures and control cabinets</b>
5.8.5	Air-oil actuators, pneumatic	6.7.4	Diffuse reflection light scanner with background suppression	7.17	<b>Transmitting data via wireless or mobile communications</b>
5.8.6	Lifting columns, electromechanical	6.7.5	Fiber sensors	7.18	<b>Optical data transmission</b>
5.8.7	Lifting elements, electromechanical	6.7.6	Mark sensors	7.19	<b>Wireless data transmission</b>
5.8.8	Chain guides, electromechanical	6.7.7	Color sensors	7.20	<b>Remote maintenance and diagnostic systems</b>
5.8.9	Linear lifting magnets	6.7.8	Luminescence scanner	7.21	<b>Machine-to-machine communications (M2M)</b>
5.8.10	Linear interlocking magnets	6.7.9	Photoelectric fork sensors	7.22	<b>Human-machine interfaces (HMI)</b>
5.8.11	Swing drives, electromechanical	6.7.10	Light-grills	7.23	<b>Virtual reality systems for industrial applications</b>
5.8.12	Accessories for electromechanical actuators	6.7.11	Optical windows		
<b>5.9</b>	<b>Multiple systems</b>	<b>6.8</b>	<b>Ultrasonic sensors</b>	<b>8</b>	<b>Safety and security technology</b>
<b>6</b>	<b>Sensor technology</b>	6.8.1	Ultrasonic through beam barrier	8.1	<b>Mechanical and electro-mechanical safety devices</b>
<b>6.1</b>	<b>Proximity switches</b>	6.8.2	Ultrasonic reflection barrier	8.1.1	Guards
6.1.1	Proximity switches, inductive	6.8.3	Ultrasonic sensors	8.1.2	Doors and gates
6.1.2	Proximity switches, capacitive	<b>6.9</b>	<b>Identification sensors (RFID)</b>	8.1.3	Anti-collision systems
6.1.3	Cylinder position switches	<b>6.10</b>	<b>Micro-sensors</b>	8.1.4	Overload protection equipment
<b>6.2</b>	<b>Rotary encoders</b>	<b>6.11</b>	<b>Pneumatic measuring apparatus</b>	8.1.5	Shock absorbers
6.2.1	Rotary encoders, absolute	<b>6.12</b>	<b>Pressure switches, pneumatic</b>	8.1.6	Bellows
6.2.2	Rotary encoders, incremental	<b>6.14</b>	<b>Accessories</b>	<b>8.2</b>	<b>Safety-related control systems</b>
<b>6.3</b>	<b>Mechanical limit switches</b>	<b>7</b>	<b>Control systems technology and industrial communications</b>	<b>8.3</b>	<b>Safety-related sensor technology</b>
6.3.1	Single limit switches	7.1	<b>Controls, electronic</b>	<b>8.4</b>	<b>Safety-related communications technology</b>
6.3.2	Multiple limit switches	7.2	<b>Controls, mechanical (cam-controlled)</b>	<b>8.5</b>	<b>Safety-related drive systems</b>
<b>6.4</b>	<b>Linear displacement transducers</b>	7.3	<b>Controls, pneumatic</b>	<b>8.6</b>	<b>Security-related hardware for the networked factory</b>
6.4.1	Optical linear displacement transducers	7.4	<b>CNC-control systems</b>	<b>8.7</b>	<b>Software solutions for security management and security monitoring</b>
6.4.2	Inductive linear displacement transducers			<b>8.8</b>	<b>IT security and monitoring services</b>
6.4.3	Magnetostrictive linear displacement transducers				
6.4.4	Potentiometric linear displacement transducers				
6.4.5	Magnetic linear displacement transducers				
6.4.6	LVDT				

# Product groups (Continuation)

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<p><b>9 Supply technology</b></p> <p><b>9.1 Cable and hose carrier systems</b></p> <p><b>9.2 Cable protection systems</b></p> <p><b>9.3 Cable and tube bushings</b></p> <p><b>9.4 Electrical power supply</b></p> <p>9.4.1 Wiring systems, complete</p> <p>9.4.2 Cable and wires</p> <p>9.4.3 Cord sets</p> <p>9.4.4 Cable clips</p> <p>9.4.5 Connectors</p> <p>9.4.6 Connection material, without soldering</p> <p><b>9.5 Compressed air supply</b></p> <p>9.5.1 Maintenance units for compressed air</p> <p>9.5.2 Filters for compressed air</p> <p>9.5.3 Pressure regulators</p> <p>9.5.4 Lubrications for compressed air</p> <p>9.5.5 Compressed air dryer</p> <p>9.5.6 Tube lines for compressed air</p> <p>9.5.7 Hose lines for compressed air</p> <p>9.5.8 Screwed connections and connections for compressed air</p> <p>9.5.9 Silencers for compressed air</p> <p>9.5.10 Sealing devices for compressed air</p> <p>9.5.11 Accessories for compressed air</p> <p><b>9.6 Ventilation technology and extraction systems</b></p> <p><b>9.7 Components for ventilation technology and extraction systems</b></p> <p><b>9.8 Vacuum technology</b></p> <p><b>9.9 Hydraulic supply</b></p> <p><b>10 Software and cloud computing</b></p> <p><b>10.1 Software for robotics, assembly and handling technology</b></p> <p>10.1.1 Software for simulation</p> <p>10.1.2 Software for robots and plant control systems</p> <p>10.1.3 Software for process-controlled programming and visualisation</p> <p>10.1.4 Software for numerical control systems</p>	<p>10.1.5 Communications and network software</p> <p>10.1.6 Software for field bus systems</p> <p>10.1.7 Software for process control systems</p> <p>10.1.8 Software for remote diagnosis</p> <p>10.1.9 Programming tools</p> <p>10.1.10 Software for quality inspection and documentation</p> <p><b>10.2 Software for machine vision</b></p> <p>10.2.1 Machine vision software, general</p> <p>10.2.2 Software tools</p> <p>10.2.3 Fuzzy logic software</p> <p><b>10.3 Software and systems for the smart factory</b></p> <p>10.3.1 Procurement, merchandise management, logistics and supply-chain management (SCM)</p> <p>10.3.2 Enterprise resource planning (ERP) and manufacturing resource planning (MRP)</p> <p>10.3.3 Maintenance and repair</p> <p>10.3.4 Product lifecycle management (PLM)</p> <p>10.3.5 Production data acquisition (PDA), production data management (PDM), manufacturing execution (MES)</p> <p>10.3.6 Advanced planning and scheduling (APS), process simulation and optimization and automated process control (APC)</p> <p>10.3.7 Operating systems and extensions for the smart factory</p> <p><b>10.4 Smart-factory services</b></p> <p>10.4.1 System development and integration</p> <p>10.4.2 Developing apps, smart-factory software and systems</p> <p>10.4.4 IT services and outsourcing</p> <p><b>10.5 Cloud computing</b></p> <p>10.5.1 Cloud-based infrastructure services (IaaS)</p> <p>10.5.2 Cloud-based platform services (PaaS)</p> <p>10.5.3 Cloud-based software services (SaaS)</p> <p><b>10.6 Systems and solutions for Big-data applications</b></p> <p>10.6.1 Big-data platforms</p> <p>10.6.2 Big-data software and analytics</p>	<p><b>10.7 System integration and consulting for cloud computing and big data</b></p> <p><b>11 Services and service providers</b></p> <p><b>11.1 Services</b></p> <p>11.1.1 General contractors, system integrators</p> <p>11.1.2 Engineering, consultancy, planning</p> <p>11.1.3 Feasibility studies</p> <p>11.1.4 Simulations</p> <p>11.1.5 CAD/CAM services</p> <p>11.1.6 Optimisation of existing systems</p> <p>11.1.7 Integration in new/existing IT-environments</p> <p>11.1.8 Programming</p> <p>11.1.9 Robot calibrations</p> <p>11.1.10 Trainings</p> <p>11.1.11 Condition monitoring</p> <p>11.1.12 Predictive maintenance</p> <p>11.1.13 Retrofit</p> <p>11.1.14 Mechanical, electrical services, etc.</p> <p>11.1.15 Certifications, safety inspections</p> <p>11.1.16 Services for research and innovation</p> <p>11.1.17 Construction of special purpose machinery</p> <p><b>11.2 Service providers</b></p> <p>11.2.1 Management consultancies</p> <p>11.2.2 Banks and financial institutions</p> <p>11.2.3 Insurance institutions</p> <p>11.2.4 Trade associations and organizations</p> <p>11.2.5 Standards committees</p> <p>11.2.6 Official agencies and authorities</p> <p>11.2.7 Universities and universities of applied sciences</p> <p>11.2.8 Training institutions</p> <p>11.2.9 Publishers and publications</p>
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- 12 Research and technology**
- 12.1 Research in the field of industrial automation
- 12.2 Research in the field of industrial robotics
- 12.3 Research in the field of service robotics
- 12.4 Research in the field of machine and plant construction
- 12.5 Research in the field of transport and traffic
- 12.6 Research in the field of electrical engineering
- 12.7 Research in the field of information transmission and communications
- 12.8 Research in the field of micro technologies
- 12.9 Research in the field of nanotechnology
- 12.10 Research in the field of optical technologies
- 12.11 Research in the field of medical technology
- 12.12 Energy and environmental research
- 12.13 Material research
- 12.14 Physics research
- 12.15 Composites technology
- 12.16 Battery technology

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