

## 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 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 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 workplaces
  - 1.11.4 Assembly tools
- 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 (NEW)**
  - 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 Man-machine interaction

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

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5.7.4	Geared electric motors	<b>6.5</b>	<b>Sensors for distance and thickness</b>	<b>7.5</b>	<b>Freely programmable controls (FPCs)</b>
5.7.5	Servo drives			<b>7.6</b>	<b>Industrial PCs</b>
5.7.6	Stepping motors	6.5.1	Distance and thickness sensors, optical	<b>7.7</b>	<b>Monitors</b>
5.7.7	Frequency converters	6.5.2	Distance and thickness sensors, inductive	<b>7.8</b>	<b>BUS systems</b>
5.7.8	Servo-drive control units	6.5.3	Multi-layer measuring sensors	<b>7.9</b>	<b>Bus terminals</b>
5.7.9	Motor protection devices	6.5.4	Distance and thickness sensors, ultrasonic	<b>7.10</b>	<b>Components for fieldbus systems</b>
5.7.10	Micro motors	6.5.5	Distance and thickness sensors, capacitive	<b>7.11</b>	<b>Valve islands</b>
<b>5.8</b>	<b>Special drives</b>	6.5.6	Distance and thickness sensors, magnetic	<b>7.12</b>	<b>Servo controller</b>
5.8.1	Pneumatic motors	<b>6.6</b>	<b>Force torque sensors</b>	<b>7.13</b>	<b>Hand-held programmers and operator terminals</b>
5.8.2	Cylinders, electromechanical	<b>6.7</b>	<b>Optoelectronic sensors</b>	<b>7.14</b>	<b>CPU-cards</b>
5.8.3	Cylinders, pneumatic	6.7.1	Throughbeam photoelectric sensors	<b>7.15</b>	<b>Power supply units</b>
5.8.4	Pressure transformers, pneumatic	6.7.2	Retro-reflective photoelectric sensors	<b>7.16</b>	<b>Display and operating equipment</b>
5.8.5	Air-oil actuators, pneumatic	6.7.3	Diffuse reflection light scanner	<b>7.17</b>	<b>Electrical components for controls</b>
5.8.6	Lifting columns, electromechanical	6.7.4	Diffuse reflection light scanner with background suppression	<b>7.18</b>	<b>Industrial enclosures and control cabinets</b>
5.8.7	Lifting elements, electromechanical	6.7.5	Fiber sensors	<b>7.19</b>	<b>Transmitting data via wireless or mobile communications (NEW)</b>
5.8.8	Chain guides, electromechanical	6.7.6	Mark sensors	<b>7.20</b>	<b>Optical data transmission (NEW)</b>
5.8.9	Linear lifting magnets	6.7.7	Color sensors	<b>7.21</b>	<b>Wireless data transmission (NEW)</b>
5.8.10	Linear interlocking magnets	6.7.8	Luminescence scanner	<b>7.22</b>	<b>Remote maintenance and diagnostic systems (NEW)</b>
5.8.11	Swing drives, electromechanical	6.7.9	Photoelectric fork sensors	<b>7.23</b>	<b>Systems for machine-to-machine communications (M2M) (NEW)</b>
5.8.12	Accessories for electromechanical actuators	6.7.10	Light-grills	<b>7.24</b>	<b>Systems for human-machine interfaces (NEW)</b>
<b>5.9</b>	<b>Multiple systems</b>	6.7.11	Optical windows		
<b>6</b>	<b>Sensor technology</b>	<b>6.8</b>	<b>Ultrasonic sensors</b>	<b>8</b>	<b>Safety technology</b>
<b>6.1</b>	<b>Proximity switches</b>	6.8.1	Ultrasonic throughbeam barrier	<b>8.1</b>	<b>Mechanical and electro-mechanical safety devices</b>
6.1.1	Proximity switches, inductive	6.8.2	Ultrasonic reflection barrier	8.1.1	Guards
6.1.2	Proximity switches, capacitive	6.8.3	Ultrasonic sensors	8.1.2	Doors and gates
6.1.3	Cylinder position switches	<b>6.9</b>	<b>RFID systems (NEW)</b>	8.1.3	Anti-collision systems
<b>6.2</b>	<b>Rotary encoders</b>	<b>6.10</b>	<b>Micro-sensors</b>	8.1.4	Overload protection equipment
6.2.1	Rotary encoders, absolute	<b>6.11</b>	<b>Pneumatic measuring apparatus</b>	8.1.5	Shock absorbers
6.2.2	Rotary encoders, incremental	<b>6.12</b>	<b>Pressure switches, pneumatic</b>	8.1.6	Bellows
<b>6.3</b>	<b>Mechanical limit switches</b>	<b>6.13</b>	<b>Accessories</b>	<b>8.2</b>	<b>Safety-related control systems</b>
6.3.1	Single limit switches	<b>7</b>	<b>Control systems technology and industrial communications</b>	<b>8.3</b>	<b>Safety-related sensor technology</b>
6.3.2	Multiple limit switches			<b>8.4</b>	<b>Safety-related communications technology</b>
<b>6.4</b>	<b>Linear displacement transducers</b>	<b>7.1</b>	<b>Controls, electronic</b>	<b>8.5</b>	<b>Safety-related drive systems</b>
6.4.1	Optical linear displacement transducers	<b>7.2</b>	<b>Controls, mechanical (cam-controlled)</b>	<b>8.6</b>	<b>Safety-related software (NEW)</b>
6.4.2	Inductive linear displacement transducers	<b>7.3</b>	<b>Controls, pneumatic</b>		
6.4.3	Magnetostrictive linear displacement transducers	<b>7.4</b>	<b>CNC-control systems</b>		
6.4.4	Potentiometric linear displacement transducers				
6.4.5	Magnetic linear displacement transducers				
6.4.6	LVDT				



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<b>9</b>	<b>Supply technology</b>	10.1.5	Software for field bus systems	11.1.16	Construction of special purpose machinery
9.1	<b>Cable and hose carrier systems</b>	10.1.6	Software for process control systems	11.1.17	System integration and consulting for cloud computing and big data (NEW)
9.2	<b>Cable protection systems</b>	10.1.7	Software for remote diagnosis	<b>11.2</b>	<b>Service providers</b>
9.3	<b>Cable and tube bushings</b>	10.1.8	Programming tools	11.2.1	Management consultancies
9.4	<b>Electrical power supply</b>	10.1.9	Software for quality inspection and documentation	11.2.2	Banks and financial institutions
9.4.1	Wiring systems, complete	<b>10.2</b>	<b>Software for machine vision</b>	11.2.3	Insurance institutions
9.4.2	Cable and wires	10.2.1	Machine vision software, general	11.2.4	Trade associations and organizations
9.4.3	Cord sets	10.2.2	Software tools	11.2.5	Standards committees
9.4.4	Cable clips	10.2.3	Fuzzy logic software	11.2.6	Official agencies and authorities
9.4.5	Connectors	<b>10.3</b>	<b>Software for the smart factory (NEW)</b>	11.2.7	Universities and universities of applied sciences
9.4.6	Connection material, without soldering	10.3.1	Sector-specific software (NEW)	11.2.8	Training institutions
<b>9.5</b>	<b>Compressed air supply</b>	10.3.2	Enterprise software (NEW)	11.2.9	Publishers and publications
9.5.1	Maintenance units for compressed air	<b>10.4</b>	<b>Cloud computing (NEW)</b>	<b>12</b>	<b>Research and technology</b>
9.5.2	Filters for compressed air	10.4.1	Cloud-based infrastructure services (IaaS) (NEW)	12.1	<b>Research in the field of industrial automation</b>
9.5.3	Pressure regulators	10.4.2	Cloud-based platform services (PaaS) (NEW)	12.2	<b>Research in the field of industrial robotics</b>
9.5.4	Lubrications for compressed air	10.4.3	Cloud-based software services (SaaS) (NEW)	12.3	<b>Research in the field of service robotics</b>
9.5.5	Compressed air dryer	<b>10.5</b>	<b>Big data applications (NEW)</b>	12.4	<b>Research in the field of machine and plant construction</b>
9.5.6	Tube lines for compressed air	<b>10.6</b>	<b>Software for IT security (NEW)</b>	12.5	<b>Research in the field of transport and traffic</b>
9.5.7	Hose lines for compressed air	<b>11</b>	<b>Services and service providers</b>	12.6	<b>Research in the field of electrical engineering</b>
9.5.8	Screwed connections and connections for compressed air	11.1	<b>Services</b>	12.7	<b>Research in the field of information transmission and communications</b>
9.5.9	Silencers for compressed air	11.1.1	General contractors, system integrators	12.8	<b>Research in the field of micro technologies</b>
9.5.10	Sealing devices for compressed air	11.1.2	Engineering, consultancy, planning	12.9	<b>Research in the field of nanotechnology</b>
9.5.11	Accessories for compressed air	11.1.3	Condition monitoring	12.10	<b>Research in the field of optical technologies</b>
<b>9.6</b>	<b>Ventilation technology and extraction systems</b>	11.1.4	Simulations	12.11	<b>Research in the field of medical technology</b>
<b>9.7</b>	<b>Components for ventilation technology and extraction systems</b>	11.1.5	CAD/CAM services	12.12	<b>Energy and environmental research</b>
<b>9.8</b>	<b>Vacuum technology</b>	11.1.6	Optimisation of existing systems	12.13	<b>Material research</b>
<b>9.9</b>	<b>Hydraulic supply</b>	11.1.7	Integration in new/existing IT-environments	12.14	<b>Physics research</b>
<b>10</b>	<b>Software and cloud computing</b>	11.1.8	Programming	12.15	<b>Composites technology</b>
10.1	<b>Software for robotics, assembly and handling technology</b>	11.1.9	Robot calibrations	12.16	<b>Battery technology</b>
10.1.1	Software for simulation	11.1.10	Trainings		
10.1.2	Software for robots and plant control systems	11.1.11	Maintenance		
10.1.3	Software for process-controlled programming and visualisation	11.1.12	Mechanical, electrical services, etc		
10.1.4	Software for numerical control systems	11.1.13	Condition Monitoring		
		11.1.14	Certifications, safety inspections		
		11.1.15	Services for research and innovation		

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