

Overview of product groups

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 Messe München GmbH, Am Messesee 2, 81829 München, Germany

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

Product groups

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|---|--|---|
| 1 Assembly and handling technology | 1.3 Equipment for storage | 1.6.6 Conveyor section profiles |
| | 1.3.1 Storage boxes | 1.6.7 Slide rails |
| 1.1 Assembly stations and systems | 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) | 1.4 Equipment for organizing, sorting and feeding | 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 |
| 1.2 Assembly systems for specific fields of application | 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) | 1.7 Equipment for fastening and joining |
| 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 | 1.5 Equipment for linking and transport | 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 |
| | 1.6 Components for linking and transportation equipment | 1.7.14 Tox/Clinching units |
| | 1.6.1 Chains | 1.8 Equipment for marking |
| | 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 |

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

Product groups (Continuation)

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| 3 | Machine vision | 4.2 | Grippers | 5.3 | Linear motion drive elements and systems |
| 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 | 5.4 | Numeric controlled rotation axes |
| 3.2.9 | Intelligent cameras | 4.2.11 | Micro-grippers | 5.4.1 | Rotation axes, pneumatically driven |
| 3.2.10 | Vision sensors | 4.2.12 | Carbon grippers | 5.4.2 | Rotation axes, electric driven |
| 3.2.11 | Software | 4.3 | Clamping devices | 5.4.3 | Rotation axes, electric driven with gear |
| 3.3 | Machine vision systems for specific fields of application | 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 | 5.5 | Numeric controlled linear axes |
| 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 | 4.4 | Stop devices | 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 | 5.6 | Gears |
| 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 | 4.5 | Positioning systems, pneumatic | 5.6.3 | Worm gear units |
| 3.3.11 | Optical character recognition (OCR) | 4.6 | Feed units, pneumatic | 5.6.4 | Planetary gear units |
| 3.4 | Embedded vision systems | 4.7 | Stroke feed units, pneumatic | 5.6.5 | Variable speed drives |
| 3.5 | Augmented reality systems | 4.8 | micro-positioning systems | 5.6.6 | Precision gear units |
| 4 | Positioning systems | 5 | Drive technology | 5.7 | Industrial motors, motor controls, motor protection devices |
| 4.1 | Modules | 5.1 | Bearings | 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 | | |
| | | 5.2 | Linear guides | | |
| | | 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) | | |

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

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

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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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