

June 21–24, 2022 Messe München MESSE MÜNCHEN

www.automatica-munich.com

#### **Overview of product groups**

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- 1 Assembly and handling technology
- 2 Robotics
  - 2.1 Industrial robots
  - 2.2 Professional service robotics
- 3 Machine vision
- 4 Positioning systems
- 5 Drive technology

- 6 Sensor technology
- 7 Control systems technology and industrial communications
- 8 Safety and security technology
- 9 Supply technology
- 10 Software and cloud computing
- 11 Services and service providers
- 12 Research and technology

#### **Product groups**

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1	Assembly and	1.3	Equipment for storage	1.6.6	Conveyor section profiles
	handling technology	1.3.1	Storage boxes	1.6.7	Slide rails
1.1	Assembly stations and	1.3.2	Hoppers	1.6.8	Lateral guides
	systems	1.3.3	Magazines	1.6.9	Leg sets
1.1.1	Assembly stations and	1.3.4	Pallet systems and palletizing	1.6.10	Return unit stations
1.1.1	systems, linear transfer		units	1.6.11	Curves
1.1.2	Assembly stations and	1.4	Equipment for organizing,	1.6.12	Dividers
1.1.2	systems, rotary transfer		sorting and feeding	1.6.13	Backstops
1.1.3	Assembly systems	1.4.1	Separating equipment	1.6.14	Workpiece carriers
1.1.0	(continuous motion)	1.4.2	Disentangling equipment		orientation
1.1.4	Modular assembly platforms		(seperators)	1.6.15	Lift transverse units
1.1.5	Assembly stations, manually	1.4.3	Sorting equipment	1.6.16	Transportation controls
1.1.0	feeded	1.4.4	Vibrating feeders, rotary	1.6.17	Identification and data-
1.1.6	Assembly systems for pliable	1.4.5	Vibrating feeders, linear		storage systems
1.1.0	parts	1.4.6	Step feeders	1.7	Equipment for fastening and
1.2	Assembly systems for	1.4.7	Hopper elevators		joining
1.2	specific fields of application		(Steep feeders)	1.7.1	Screw driving units,
1.2.1	Assembly systems for	1.4.8	Centrifugal feeders		manually operated
1.4.1	medical/pharmaceutical	1.4.9	Flexible feeding systems	1.7.2	Screw driving units,
	applications	1.5	Equipment for linking and		automatically operated
1.2.2	Assembly systems for food		transport	1.7.3	Screw driving units,
1.2.2	industry applications	1.5.1	Chain conveyors		stationary
1.2.3	Assembly systems for	1.5.2	Belt conveyors	1.7.4	Rivetting units
1.2.0	explosive areas	1.5.3	Magnetic monorail systems	1.7.5	Presses, manual
1.2.4	Assembly systems for ESD		(linear motors)	1.7.6	Presses, electrical
1.2.7	areas	1.5.4	Roller conveyors	1.7.7	Presses, pneumatic
1.2.5	Assembly systems for	1.5.5	Rotary indexing tables	1.7.8	Presses, hydropneumatic
1.2.0	electrical engineering and	1.5.6	Belt feed unit	1.7.9	Presses, hydraulic
	electronics	1.5.7	Workpiece carrier systems	1.7.10	Punching units
1.2.6	Assembly systems for clean-	1.5.8	Elevators	1.7.11	Welding units
1.2.0	rooms	1.5.9	Lifting and tilting units	1.7.12	Soldering units
1.2.7	Assembly systems for micro	1.5.10	Vacuum lifting devices	1.7.13	Dosing, gluing, application,
	technology	1.6	Components for linking and		coating and sealing units
1.2.8	Packaging machines		transportation equipment	1.7.14	Tox/Clinching units
1.2.9	Systems for the production	1.6.1	Chains	1.8	Equipment for marking
1.2.0	of springs	1.6.2	Belts	1.8.1	Printing systems
1.2.10	Assembly systems for	1.6.3	Rollers/wheels	1.8.2	Embossing and engraving
1.2.10	the production of photovoltaics	1.6.4	Workpiece carriers		systems
1.2.11	Assembly systems for	1.6.5	Drives	1.8.3	Laser marking systems
1.4.11	composites	1.0.0	511100	1.8.4	Labeling systems
1.2.12	Assembly systems for			1.0.7	Laboring dyotomo
1.4.14	battery production				
	battory production				



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## Product groups (Continuation)

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1.9	Test systems	2.1.2	Components for robot		Industrial robots for loading/
1.9.1	Test equipment for materia		systems		unloading machine tools
	components and structures	s 2.1.2.1	Jigs and fixtures	2.1.3.16	Industrial robots for other
1.9.2	Test equipment for function	nal 2.1.2.2	Tool changing systems		material handling tasks
	and durability testing	2.1.2.3	Robot measurement	2.1.3.17	Industrial robots for electrical
1.9.3	Test equipment		systems		engineering and electronics
	for electronics	2.1.2.4	Peripherals for painting and	2.1.3.18	Industrial robots for
1.9.4	Weighing devices		coating		food industry applications
1.9.5	Measuring devices	2.1.2.5	Peripherals for dosing,		Industrial robots for
1.10	Basis and construction		gluing, application, coating		clean-rooms
	elements		and sealing		Industrial robots for
1.10.1	Levelling elements	2.1.2.6	Peripherals for spot welding		laboratories
1.10.2	Profiles	2.1.2.7	Peripherals for arc welding	2.1.3.21	Industrial robots for
1.10.3	Connections	2.1.2.8	Peripherals for processing		micro technology applications
1.10.4	Joints		applications		Industrial robots for
1.10.5	Surface elements	2.1.2.9	Peripherals for cutting		use in hostile environments
1.11	Manual workplace syster		Peripherals for laser	2.1.3.23	Industrial robots for
1.11.1	Manual handling	110	applications		research and training
1.11.1	manipulators	2.1.2.11	Peripherals for clean-rooms	2.1.3.24	Industrial robots for the
1.11.2	Assembly cells	2.1.3	Industrial robots for speci		production of photovoltaics
1.11.3	Individual assembly		fields of application	2.1.3.25	Industrial robots for the
1.11.0	work places	2.1.3.1	Industrial robots for		production of composites
1.11.4	Assembly tools		painting and coating	2.1.3.26	Industrial robots for
1.11.5	Assembly assistance syste	ems 2.1.3.2	Industrial robots for		battery production
1.12	Workplace equipment	,,,,,	sealing and gluing	2.1.4	Industrial robots for human-
1.12.1	Assembly tables	2.1.3.3	Industrial robots for		robot collaboration
1.12.2	Work table accessories		spot welding	2.2	Professional
1.12.3	Supply of materials	2.1.3.4	Industrial robots for		
1.12.4	On-hand information		arc welding		service robotics
1.12.5	Lights	2.1.3.5	Industrial robots for	2.2.1	Service Robots for
1.12.6	Chairs		processing		professional use
		2.1.3.6	Industrial robots for cutting	2.2.1.1	Field robotics
1.13	Packaging units	2.1.3.6 2.1.3.7	Industrial robots for laser		
1.13 1.14	Packaging units Surface Treatment	2.1.3.7	Industrial robots for laser applications	2.2.1.2	Cleaning robots
1.13	Packaging units Surface Treatment 3D laser polishing and		Industrial robots for laser applications Industrial robots for	2.2.1.2 2.2.1.3	
1.13 1.14	Packaging units Surface Treatment	2.1.3.7 2.1.3.8	Industrial robots for laser applications Industrial robots for assembling	2.2.1.2 2.2.1.3 2.2.1.4	Cleaning robots Inspection systems
<b>1.13 1.14</b> 1.14.1	Packaging units Surface Treatment 3D laser polishing and microstructuring	2.1.3.7	Industrial robots for laser applications Industrial robots for assembling Industrial robots for	2.2.1.2 2.2.1.3 2.2.1.4	Cleaning robots Inspection systems Construction and
1.13 1.14	Packaging units Surface Treatment 3D laser polishing and	2.1.3.7 2.1.3.8 2.1.3.9	Industrial robots for laser applications Industrial robots for assembling Industrial robots for measuring and testing	2.2.1.2 2.2.1.3 2.2.1.4 2.2.1.5	Cleaning robots Inspection systems Construction and demolition robots
1.13 1.14 1.14.1	Packaging units Surface Treatment 3D laser polishing and microstructuring	2.1.3.7 2.1.3.8 2.1.3.9	Industrial robots for laser applications Industrial robots for assembling Industrial robots for measuring and testing Industrial robots for	2.2.1.2 2.2.1.3 2.2.1.4 2.2.1.5 2.2.1.6	Cleaning robots Inspection systems Construction and demolition robots Logistic systems
1.13 1.14 1.14.1 2 2.1	Packaging units Surface Treatment 3D laser polishing and microstructuring  Robotics Industrial robots	2.1.3.7 2.1.3.8 2.1.3.9 2.1.3.10	Industrial robots for laser applications Industrial robots for assembling Industrial robots for measuring and testing Industrial robots for palettizing	2.2.1.2 2.2.1.3 2.2.1.4 2.2.1.5 2.2.1.6 2.2.1.7	Cleaning robots Inspection systems Construction and demolition robots Logistic systems Medical robotics
1.13 1.14 1.14.1	Packaging units Surface Treatment 3D laser polishing and microstructuring  Robotics Industrial robots Industrial robots, listed to	2.1.3.7 2.1.3.8 2.1.3.9 2.1.3.10	Industrial robots for laser applications Industrial robots for assembling Industrial robots for measuring and testing Industrial robots for palettizing Industrial robots for pick &	2.2.1.2 2.2.1.3 2.2.1.4 2.2.1.5 2.2.1.6 2.2.1.7	Cleaning robots Inspection systems Construction and demolition robots Logistic systems Medical robotics Service robots for safety, rescue and security applications
1.13 1.14 1.14.1 2 2.1 2.1.1	Packaging units Surface Treatment 3D laser polishing and microstructuring  Robotics Industrial robots Industrial robots, listed to type of construction	2.1.3.7 2.1.3.8 2.1.3.9 2.1.3.10 <b>2.1</b> .3.11	Industrial robots for laser applications Industrial robots for assembling Industrial robots for measuring and testing Industrial robots for palettizing Industrial robots for pick & place and packaging	2.2.1.2 2.2.1.3 2.2.1.4 2.2.1.5 2.2.1.6 2.2.1.7	Cleaning robots Inspection systems Construction and demolition robots Logistic systems Medical robotics Service robots for safety, rescue and security applications Underwater systems
1.13 1.14 1.14.1 2 2.1 2.1.1	Packaging units Surface Treatment 3D laser polishing and microstructuring  Robotics Industrial robots Industrial robots, listed to type of construction Linear robots, gantry robots	2.1.3.7 2.1.3.8 2.1.3.9 2.1.3.10 <b>2.1</b> .3.11	Industrial robots for laser applications Industrial robots for assembling Industrial robots for measuring and testing Industrial robots for palettizing Industrial robots for pick & place and packaging Industrial robots for loading/	2.2.1.2 2.2.1.3 2.2.1.4 2.2.1.5 2.2.1.6 2.2.1.7 2.2.1.8 2.2.1.9	Cleaning robots Inspection systems Construction and demolition robots Logistic systems Medical robotics Service robots for safety, rescue and security applications Underwater systems Mobile platforms in general use
1.13 1.14 1.14.1 2 2.1 2.1.1	Packaging units Surface Treatment 3D laser polishing and microstructuring  Robotics Industrial robots Industrial robots, listed to type of construction Linear robots, gantry robot Horizontally articulated	2.1.3.7 2.1.3.8 2.1.3.9 2.1.3.10 <b>Dy</b> 2.1.3.11 s 2.1.3.12	Industrial robots for laser applications Industrial robots for assembling Industrial robots for measuring and testing Industrial robots for palettizing Industrial robots for pick & place and packaging Industrial robots for loading/unloading presses	2.2.1.2 2.2.1.3 2.2.1.4 2.2.1.5 2.2.1.6 2.2.1.7 2.2.1.8 2.2.1.9 2.2.1.10	Cleaning robots Inspection systems Construction and demolition robots Logistic systems Medical robotics Service robots for safety, rescue and security applications Underwater systems
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1.13 1.14 1.14.1 2 2.1 2.1.1 2.1.1.1 2.1.1.2 2.1.1.3 2.1.1.4 2.1.1.5 2.1.1.6	Packaging units Surface Treatment 3D laser polishing and microstructuring  Robotics Industrial robots Industrial robots, listed to type of construction Linear robots, gantry roboth Horizontally articulated robots (SCARA-robots) Vertically articulated robots Articulated robots Parallel link robots (e.g. linapods, tripods, hexapods Industrial robots, special design	2.1.3.7 2.1.3.8 2.1.3.9 2.1.3.10 2.1.3.11 s 2.1.3.12 2.1.3.13 2.1.3.14	Industrial robots for laser applications Industrial robots for assembling Industrial robots for measuring and testing Industrial robots for palettizing Industrial robots for pick & place and packaging Industrial robots for loading/unloading presses Industrial robots for loading/unloading die cast machines Industrial robots for loading/unloading injection moulding	2.2.1.2 2.2.1.3 2.2.1.4 2.2.1.5 2.2.1.6 2.2.1.7 2.2.1.8 2.2.1.9 2.2.1.10 2.2.1.11 2.2.1.12 2.2.2.2 2.2.2.3	Cleaning robots Inspection systems Construction and demolition robots Logistic systems Medical robotics Service robots for safety, rescue and security applications Underwater systems Mobile platforms in general use Public relation robots Other service robots for professional use Humanoid robots Key technologies and components for service robotics Perception Navigation Manipulation
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June 21–24, 2022 Messe München





# Product groups (Continuation)

3	Machine vision	4.2	Grippers	5.3	Linear motion drive elements
3.1	Measuring systems for	4.2.1	Grippers, electrical	5.3.1	and systems Acme screw drives
	machine vision	4.2.2	Grippers, pneumatic	5.3.1	Ball screw drives
3.2	Components for machine	4.2.3	Grippers, hydraulic		
	vision	4.2.4	2-finger parallel grippers	5.3.3	Roller screw drives
3.2.1	Image capture hardware	4.2.5	3-finger centric grippers	5.3.4	Gear rack drives
3.2.2	Optics and illuminations	4.2.6	Suction grippers	5.3.5	Toothed belt drives
3.2.3	Image sensors	4.2.7	Foil gripper systems	5.3.6	Linear motors
3.2.4	Optical sensors	4.2.8	Needle grippers	5.3.7	Chain drives
3.2.5	Cameras	4.2.9	Adhesion grippers	5.3.8	Accessories for linear motion
3.2.6	High speed cameras	4.2.10	Revolving grippers	<b>F</b> 0 0	drives elements
3.2.7	Infra-red cameras	4.2.11	Micro-grippers	5.3.9	Worm gear screw jacks
3.2.8	Processors and computer	4.2.12	Carbon grippers	5.4	Numeric controlled
	components	4.3	Clamping devices	5 4 4	rotation axes
3.2.9	Intelligent cameras	4.3.1	Clamping devices, manual	5.4.1	Rotation axes,
3.2.10	Vision sensors	4.3.2	Clamping devices, pneumatic	<b>5.40</b>	pneumatical driven
3.2.11	Software	4.3.3	Clamping devices, electrical	5.4.2	Rotation axes, electric driven
3.3	Machine vision systems for	4.3.4	Clamping devices, hydraulic	5.4.3	Rotation axes, electric driven
0.0	specific fields of application	4.4	Stop devices	5 4 4	with gear
3.3.1	Measuring and comparing	4.4.1	Stop devices, mechanical	5.4.4	Rotation axes, electric driven
0.0	2D and 3D	4.4.2	Stop devices, electrical	F F	without gear
3.3.2	Security systems	4.4.3	Stop devices, pneumatic	5.5	Numeric controlled
3.3.3	Recognition of the shape and	4.4.4	Stop devices, hydraulic	E E 1	linear axes
	the position	4.4.5	Stop devices, magnetic	5.5.1	Linear axes, pneumatic driven
3.3.4	Identification systems and	4.5	Positioning systems,	5.5.2	•
	components		pneumatic	5.5.2	Linear axes, electric driven with toothed belt drives
3.3.5	Surface inspection and	4.6	Feed units, pneumatic	5.5.3	Linear axes, electric driven
	texture analysis	4.7	Stroke feed units, pneumatic	5.5.5	with leadscrew drives
3.3.6	X-ray inspection	4.8	micro-positioning systems	5.5.4	Linear axes, electric driven
3.3.7	Completeness check			5.5.4	with gear rack drives
3.3.8	Color inspection	5	Drive technology	5.5.5	Linear axes, electric driven
3.3.9	Quality inspection			5.5.5	with linear motors
3.3.10	Optical code reading for	5.1	Bearings	5.6	Gears
	1D-codes/bar-codes and	5.1.1	Ball bearings	5.6.1	Spur gear units
	2D-codes	5.1.2	Roller bearings	5.6.2	Bevel gear units
3.3.11	Optical character recognition	5.1.3	Needle roller bearings	5.6.3	Worm gear units
	(OCR)	5.1.4	Plain bearings	5.6.4	Planetary gear units
3.4	Embedded vision systems	5.1.5	Air bearings (radial)	5.6.5	
3.5	Augmented reality systems	5.1.6	Magnetic bearings	5.6.6	Variable speed drives Precision gear units
		5.2	Linear guides	5.0.0 5.7	Industrial motors, motor
4	Positioning systems	5.2.1	Sliding guides	5.7	controls, motor protection
		5.2.2	Cam roller guides		devices
4.1	Modules	5.2.3	Linear ball bearing guides	5.7.1	3-phase Motors
4.1.1	Rotation modules,	5.2.4	Profiled rail guides	5.7.1	Direct current motors
	swivel units	5.2.5	Cage rail guides	5.7.2	Energy-saving motors
4.1.2	Linear modules	5.2.6	Telescopic rail guides	5.7.5	Litergy-saving motors
		5.2.7	Air bearings (axial)		



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## Product groups (Continuation)

	adot groupo	(Oomanaado	· · · /	lesse Munchen Gmb	oh, Messegelande, 81823 Munchen, Germany
5.7.4 5.7.5	Geared electric motors Servo drives	6.5	Sensors for distance and thickness	7.5	Freely programmable controls (FPCs)
5.7.6	Stepping motors	6.5.1	Distance and thickness	7.6	Industrial PCs
5.7.7	Frequency converters	0.0.1	sensors, optical	7.7	BUS systems
5.7.8	Servo-drive control units	6.5.2	Distance and thickness	7.8	Bus terminals
		0.5.2	sensors, inductive	7.0 7.9	
5.7.9	Motor protection devices	6.5.3		7.9	Components for fieldbus
5.7.10	Micro motors	0.5.5	Multi-layer measuring	7.40	systems
5.8	Special drives	0.5.4	sensors	7.10	Valve islands
5.8.1	Pneumatic motors	6.5.4	Distance and thickness	7.11	Servo controler
5.8.2	Cylinders, electromechanic	cal	sensors, ultrasonic	7.12	CPU-cards
5.8.3	Cylinders, pneumatic	6.5.5	Distance and thickness	7.13	Power supply units
5.8.4	Pressure transformers,	0.50	sensors, capacitive	7.14	Display and operating
	pneumatic	6.5.6	Distance and thickness		equipment
5.8.5	Air-oil actuators, pneumation	0	sensors, magnetic	7.15	Electrical components for
5.8.6	Lifting columns,	6.6	Force torque sensors		controls
	electromechanical	6.7	Optoelectronic sensors	7.16	Industrial enclosures and
5.8.7	Lifting elements,	6.7.1	Throughbeam photoelectric		control cabinets
0.0	electromechanical		sensors	7.17	Transmitting data via wireless
5.8.8	Chain guides,	6.7.2	Retro-reflective photoelectric		or mobile communications
0.0.0	electromechanical		sensors	7.18	Optical data transmission
5.8.9	Linear lifting magnets	6.7.3	Diffuse reflection light	7.19	Wireless data transmission
5.8.10		0	scanner	7.20	Remote maintenance and
5.8.11	0 0	6.7.4	Diffuse reflection light	7.20	diagnostic systems
5.0.11	Swing drives,		scanner with background	7.21	Machine-to machine
E 0.40	electromechanical		suppression	1.21	communications (M2M)
5.8.12		6.7.5	Fiber sensors	7.22	Human-machine interfaces
<b>5</b> 0	electromechanical actuator	6.7.6	Mark sensors	1.22	(HMI)
5.9	Multiple systems	6.7.7	Color sensors	7.23	Virtual reality systems
		6.7.8	Luminescence scanner	1.23	for industrial applications
6	Sensor technology	6.7.9	Photoelectric fork sensors		ioi iliuustilai applications
6.1	Proximity switches	6.7.10	Light-grills	8	Safety and
6.1.1	Proximity switches, inductive	ve 6.7.11	Optical windows		security technology
6.1.2	Proximity switches,	6.8	Ultrasonic sensors		
	capacitive	6.8.1	Ultrasonic through beam	8.1	Mechanical and electro-
6.1.3	Cylinder position switches		barrier		mechanical safety devices
6.2	Rotary encoders	6.8.2	Ultrasonic reflection barrier	8.1.1	Guards
6.2.1	Rotary encoders, absolute	6.8.3	Ultrasonic sensors	8.1.2	Doors and gates
6.2.2	Rotary encoders,	6.9	Identification sensors (RFI	<b>ID)</b> 8.1.3	Anti-collision systems
	incremental	6.10	Micro-sensors	8.1.4	Overload protection
6.3	Mechanical limit switche	s 6.11	Pneumatic measuring		equipment
6.3.1	Single limit switches		apperatus	8.1.5	Shock absorbers
6.3.2	Multiple limit switches	6.12	Pressure switches,	8.1.6	Bellows
6.4	Linear displacement		pneumatic	8.2	Safety-related control
	transducers	6.14	Accessories		systems
6.4.1	Optical linear displacement	t		8.3	Safety-related sensor
	transducers	7	Control systems		technology
6.4.2	Inductive linear displacement	ent '	_	8.4	Safety-related
	transducers		technology and indust	ırıaı	communications technology
6.4.3	Magnetostrictive linear		communications	8.5	Safety-related drive systems
	displacement transducers	7.1	Controls, electronic	8.6	Security-related hardware
6.4.4	Potentiometric linear	7.2	Controls, mechanical		for the networked factory
3	displacement transducers	1.2	(cam-controlled)	8.7	Software solutions for
6.4.5	Magnetic linear	7.3	Controls, pneumatic		security management and
	displacement transducers	7.4	CNC-control systems		security monitoring
6.4.6	LVDT		2.1.2 22	8.8	IT security and monitoring
					services



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# Product groups (Continuation)

	<u> </u>				•
9	Supply technology	10.1.4	Software for numerical	10.6	Systems and solutions for
9.1	Cable and hose carrier systems	10.1.5	control systems Communications and network	10.6.1	<b>Big-data applications</b> Big-data platforms
9.2	Cable protection systems		software	10.6.2	Big-data software and analytics
9.3	Cable and tube bushings	10.1.6	Software for field bus	10.7	System integration and
9.4	Electrical power supply		systems		consulting for cloud
9.4.1		10.1.7	Software for process		computing and big data
9.4.1	Wiring systems, complete Cable and wires		control systems		
		10.1.8	Software for remote	11	Services and
9.4.3	Cord sets		diagnosis		service providers
9.4.4	Cable clips Connectors	10.1.9	Programming tools		·
9.4.5		10.1.10	Software for quality	11.1	Services
9.4.6	Connection material,		inspection and	11.1.1	General contractors, system
9.5	without soldering	40.0	documentation	44.4.0	integrators
9.5.1	Compressed air supply Maintenance units for	10.2	Software for machine vision	11.1.2	Engineering, consultancy,
9.5.1	compressed air	10.2.1	Machine vision software,	44.4.0	planning
9.5.2	Filters for compressed air	40.00	general	11.1.3	Feasibility studies
9.5.3	Pressure regulators	10.2.2	Software tools	11.1.4	Simulations
9.5.4	Lubrications for	10.2.3	Fuzzy logic software	11.1.5	CAD/CAM services
9.5.4	compressed air	10.3	Software and systems	11.1.6	Optimisation of existing
9.5.5	Compressed air dryer	10 2 1	for the smart factory	44 4 7	systems
9.5.6	Tube lines for	10.3.1	Procurement, merchandise management, logistics and	11.1.7	Integration in new/existing IT-environments
3.3.0	compressed air		supply-chain management (SCM)	11.1.8	Programming
9.5.7	Hose lines for	10.3.2	Enterprise resource planning	11.1.9	Robot calibrations
0.0.1	compressed air	10.0.2	(ERP) and manufacturing	11.1.9	Trainings
9.5.8	Screwed connections and		resource planning (MRP)	11.1.10	Condition monitoring
0.0.0	connections for	10.3.3	Maintenance and repair	11.1.12	Predictive maintenance
	compressed air	10.3.4	Product lifecycle management	11.1.12	Retrofit
9.5.9	Silencers for compressed air	10.0.1	(PLM)	11.1.13	Mechanical, electrical
9.5.10	Sealing devices	10.3.5	Production data acquisition	11.1.14	services, etc.
	for compressed air		(PDA), production data	11.1.15	Certifications,
9.5.11	Accessories for		management (PDM),	11.1.10	safety inspections
	compressed air		manufacturing execution (MES)	11.1.16	Services for research and
9.6	Ventilation technology and	10.3.6	Advanced planning and		innovation
	extraction systems		scheduling (APS), process	11.1.17	Construction of
9.7	Components for ventilation		simulation and optimization and		special purpose machinery
	technology and extraction		automated process control (APC)	11.2	Service providers
	systems	10.3.7	Operating systems and	11.2.1	Management consultancies
9.8	Vacuum technology	40.4	extensions for the smart factory	11.2.2	Banks and financial
9.9	Hydraulic supply	10.4	Smart-factory services		institutions
9.10	Oils, fats and lubricants	10.4.1	System development and	11.2.3	Insurance institutions
		10.4.2	integration Developing apps, smart-factory	11.2.4	Trade associations and
10	Software and	10.4.2	software and systems		organizations
	cloud computing	10.4.4	IT services and outsourcing	11.2.5	Standards committees
10.1	Software for robotics,	10.4.4	Cloud computing	11.2.6	Official agencies and
10.1	assembly and handling	10.5.1	Cloud-based infrastructure		authorities
	technology	10.0.1	services (laaS)	11.2.7	Universities and universities
10.1.1	Software for simulation	10.5.2	Cloud-based platform services	44.0.0	of applied sciences
10.1.2	Software for robots and plant		(PaaS)	11.2.8	Training institutions
	control systems	10.5.3	Cloud-based software services	11.2.9	Publishers and publications
10.1.3	Software for process-		(SaaS)		
	controlled programming and				
	vicualization				





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### Product groups (Continuation)

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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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