

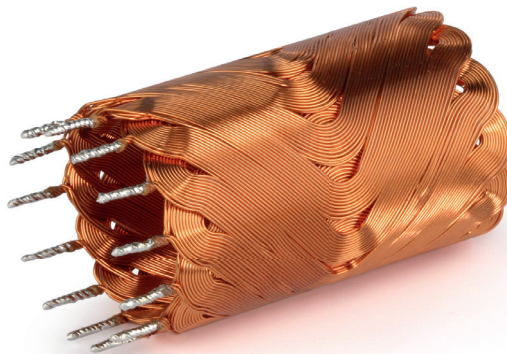
Founded in Switzerland. Available worldwide.

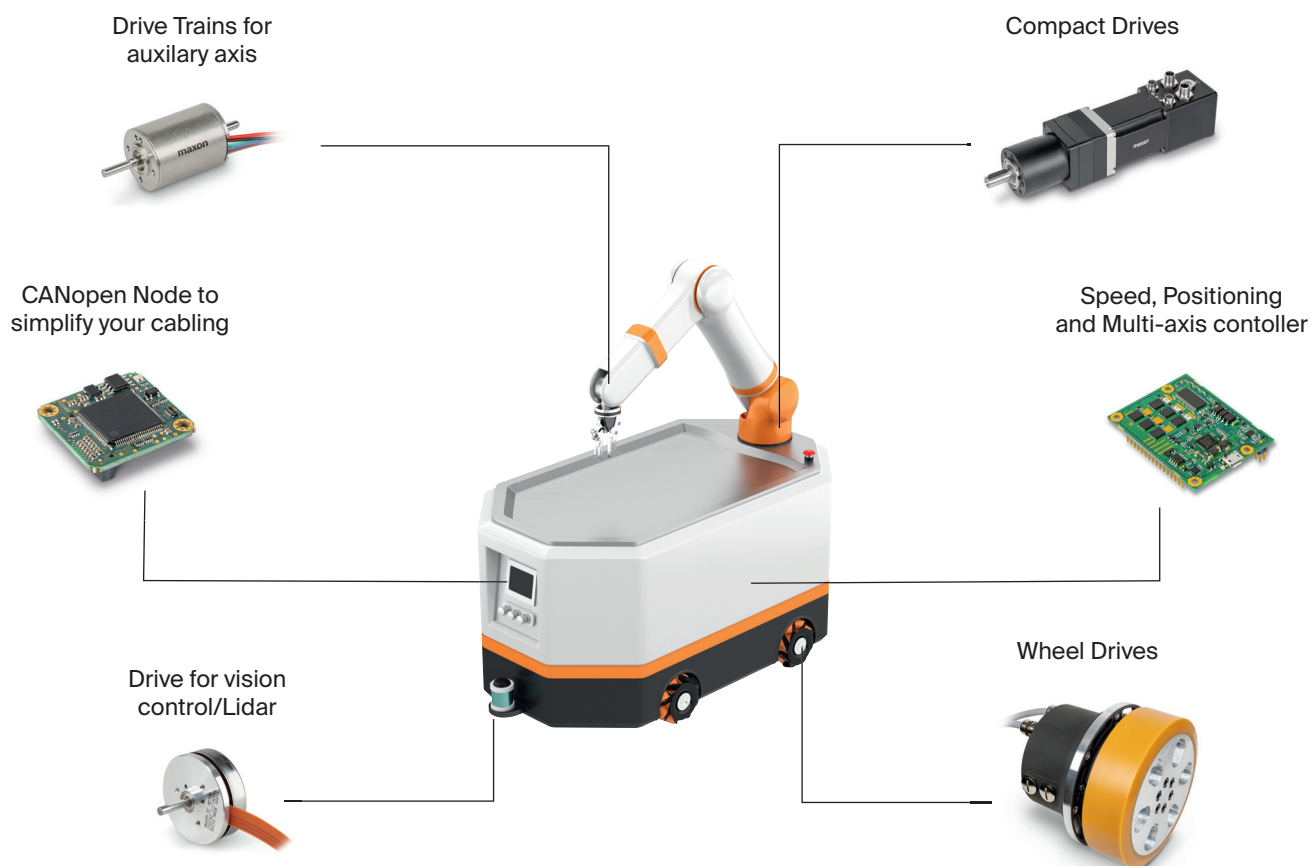
maxon – a strong global brand

maxon, with headquarters in Sachseln/Central Switzerland, has production sites in Switzerland, Germany, Hungary, South Korea, USA, France, Netherlands, Great Britain and China as well as sales companies in more than 30 countries. Our machines and product lines are developed in-house to guarantee cost-effective manufacturing of our products and enables us to create custom solutions to fit your specific application needs.

Precision Drive Systems

maxon develops and builds precision drive systems. Our brushless and brushed DC motors with ironless windings are among the best in the world. Flat motors with iron cores complete our modular product portfolio. maxon's modular system includes planetary and spur gearheads, spindle drives, as well as encoders and control electronics.





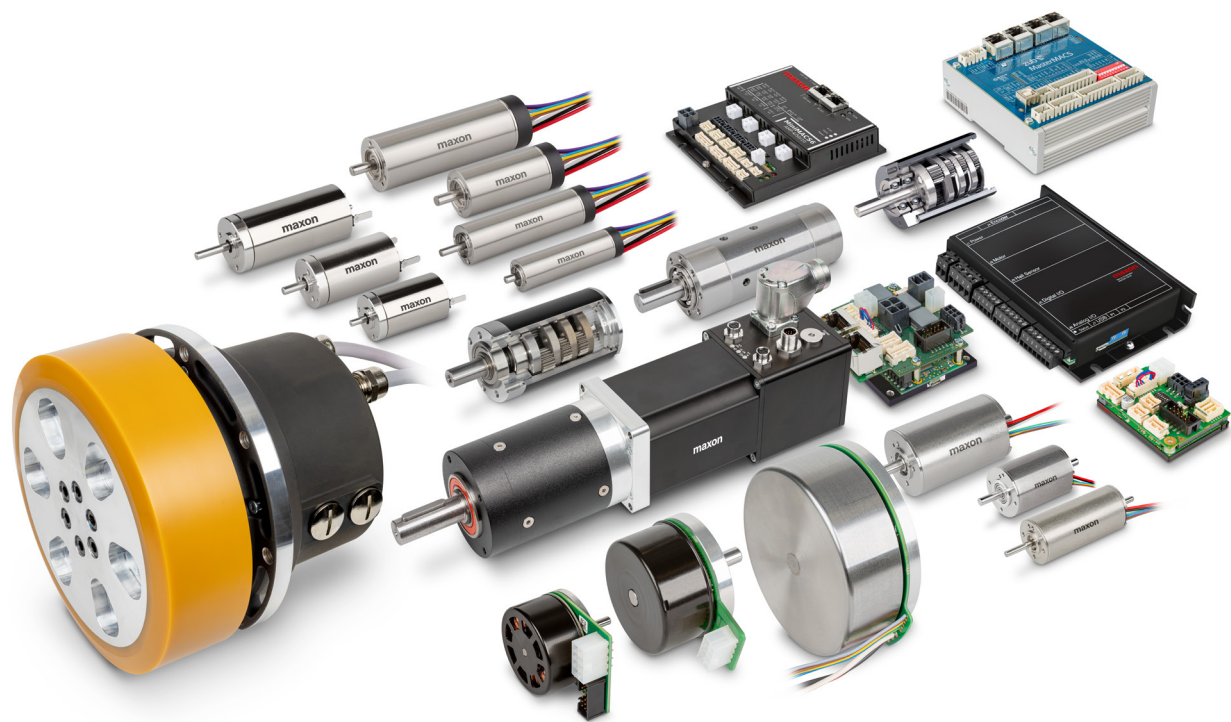
A trusted partner for every movement in your logistics robot

Take advantage of our proficiency in control solutions tailored for cutting-edge drive technology in autonomous robots and logistics shuttles. Engineered for peak performance, our advanced drive technology ensures unparalleled efficiency, agility, and reliability in every mission.

Beyond our standard product offerings, we provide the development of OEM custom solutions in drive technology and power electronics, along with consulting and engineering services. Backed by a high degree of technical competence and extensive application experience, we are committed to delivering expert advice with a focus on drive technology.

We eagerly anticipate the opportunity to collaborate with you.

Drive solutions from a single source



Autonomous transport systems dedicated product ranges

	Compact drive solution	Motor	Gear	Electronics	Multi-axis controller
maxon products	IDX Compact Drive	EC-i	GPX (UP, LN)	EPOS4 Positioning Controller	MiniMACS6 MicroMACS6
		EC FLAT	GP (UP, HP, LN, CR)	ESCON Speed Controller	
	X Products				
Mobile solution application (weight)					
< 250 kg		•	•	•	•
250-750 kg	•	•	•	•	•
> 750 kg	•				
Communication buses	• EtherCat • CANOpen • I/O			• EtherCat • CANOpen • I/O	• EtherCat • CANOpen • I/O
Main advantages	• Plug and play solution • Modularity • Different communication buses	• Compact • Efficient • Modular (X range)	• Compact • Efficient	• Plug and play solution • Several communication buses • Efficient and compact	• Designs for multi-axes • Several communication buses • Efficient and compact

Shuttles

Shuttle storage systems are crucial for high-throughput logistics. These shuttle systems represent an automated bin storage solution that accelerates order picking, facilitating a continuous flow of products between the warehouse and the picking stations. In the era of booming e-commerce, these efficient solutions provide platforms using them with responsiveness, efficiency, and security.



Drives for efficient shuttle robots

maxon offers high-precision, compact, and reliable drive solutions encompassing motors, electronics, and master controllers designed for all operational axes, including traction, lift, and steering functions. maxon has extensive experience in mobile drive technology and has developed a wide range of highly efficient products that save energy, weight and volume in applications such as shuttle robots.

Compact Wheel Drives



- Configurable system components
- One stop shop solution
- Highly efficient

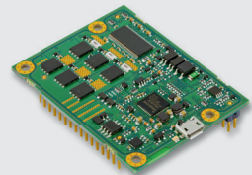
EC and ECX FLAT motors



- High power density
- Space-saving, high torque
- Cost efficient
- Integrated electronics*
- Ø9-90 mm

* Only available on selected sizes.

Controllers EPOS 4, ESCON, MACs



- 4-Q PWM servo controllers
- 1-Q EC amplifiers
- Multi-axis position controllers

AGVs und AMRs

Their market introduction marked a true revolution in logistics and production. AGVs, Automated Guided Vehicles, boast straightforward and efficient functionalities, playing a vital role in enhancing the productivity of factories and warehouses. On the other hand, AMRs, Autonomous Mobile Robots, provide autonomous and flexible solutions. Both demand meticulous programming and stringent safety measures, especially when they come into contact with humans while performing their tasks.



Compact solutions for efficient AGVs/AMRs operations

maxon provides drive and controller solutions for AGVs & AMRs. Leveraging our compact drives, such as IDX or Wheel-Drive, along with our expertise in high-performance gearboxes and control systems like EPOS4, enables you to harness the best of maxon's technologies in terms of compactness, performance, energy efficiency and safety.

Compact Wheel Drives



- Configurable system components
- Highly efficient

Compact Drives



- High continuous torque
- IP65 protected design
- Easily configured online

Custom AGV Products



- Easily combined with Parvalux gearboxes
- Perfectly matched system components
- Compact design

Last mile delivery robots

These mobile robotic units can autonomously and rapidly deliver small goods, mail, or groceries. Known as last mile delivery (LMD) robots, these units come in various sizes, shapes, and propulsion modes. Due to their potential interaction with people on public roads, it is crucial for them to be as robust, reliable, efficient and safe as possible.



Efficient and reliable solutions for delivery robots

The reliability and robustness of maxon drives is essential for driving LMD's. With their precision engineering, our motors ensure swift navigation through any environment, from city streets to suburban roads. maxon drives deliver the torque and efficiency to elevate your last mile delivery fleet to new levels.

BLDC motors



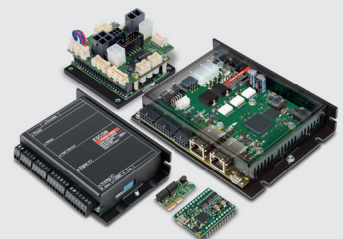
- High acceleration
- Long service life
- Configurable (X-drives)
- Ø4–90 mm

EC and ECX FLAT motors



- High power density
- Cost efficient
- Ø9 –90 mm

Controllers



- 4-Q PWM servo controllers
- 1-Q EC amplifiers
- Multi-axis position

Please reach out to our Engineering experts with questions
or to review an active project.

Contact us at:

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