

Media release, April 14, 2023

## Bringing product innovations to Hannover Messe

**This year's Hannover Messe (April 17–21, 2023) will feature maxon's latest product developments, along with new 2023/2024 product catalog with more than 600 pages of drive technology. Standout products include the brand new ECX PRIME 6, and the EC frameless DT motors series' new sizes 65 and 85.**

maxon's exhibit this year (hall 6, booth 44) is entirely based around the theme of “more torque and more dynamics in the smallest of spaces.” At its ultra-modern booth, the leading supplier of electric drives and systems will give a first-hand presentation of exciting solutions. The spotlight will be on the new ECX PRIME 6: the first size from the new ECX PRIME motor family.

### **New ECX PRIME**

The new ECX PRIME products are particularly powerful, brushless motors with 4-pole rotors and ironless windings. The ECX PRIME 6 in its M HP version is available for the first time with a motor diameter of just 6 millimeters. The technology, which has already proven itself in larger motors, has been further developed based on customized designs, and engineered for commercial production in such small diameters. The result is a small powerhouse with speeds of up to 50,000 rpm and continuous torques of up to 0.57 mNm. The ECX PRIME 6 is suitable for demanding applications with limited space or where special performance or control dynamics are required, as in the case of prosthetic hands, surgical devices, and implants.

### **The growing EC frameless DT motor series**

After the successful launch of the EC frameless DT50S and DT50M, this motor series has been strengthened by the addition of the EC frameless DT65 and EC frameless DT85. The new motors are available in two lengths. To go with these motors, maxon provides an encoder solution in the form of the TSX 65 MAG and TSX 85 MAG that opens up unique possibilities for the design of complex robotics applications with large hollow shafts.

### **IDX70 modular system expanded to include the GPX70 gearhead**

With the GPX70, maxon is expanding the planetary gearhead series by adding a large, configurable industrial gearhead. The gearhead is offered in three versions: standard, reduced noise level, and ultra-performance, each with either 1-stage or 2-stage reduction. When combined with the IDX70 motors and drives, this expansion provides exceedingly powerful, dynamic drive solutions for both stationary and mobile industrial applications.

### **New product for confined spaces**

With the new ECX FLAT motors with integrated electronics, the market sees the arrival of compact, brushless maxon motors that add an integrated 4-Q speed controller to a proven high-torque motor design. The new compact drives can be operated easily via four digital and analog inputs and outputs. What makes them especially unique is that the extensive functions and parameters of the integrated electronics can be configured directly online.

The ECX FLAT is newly available in a diameter of 22 mm in two versions. The standard version is particularly suitable for confined spaces, while the high-torque version is designed for maximum torque. In addition, the new ENX MILE has been added to the maxon encoder range. It can be combined with both the ECX FLAT 22 and the ECX FLAT 32.

## **Catalog: both an overview and a modular system in one**

maxon offers a wide selection of components: from DC and BLDC motors to gearheads, encoders, positioning controllers, master controllers, and battery management systems. The newly released 2023/2024 catalog provides an overview. On more than 600 pages, you can explore maxon's modular system, data sheets, technical tips, and the practical maxon selection guide. The new print catalog can be ordered online or viewed at [epaper.maxongroup.com](http://epaper.maxongroup.com), and is available at [shop.maxongroup.com](http://shop.maxongroup.com).

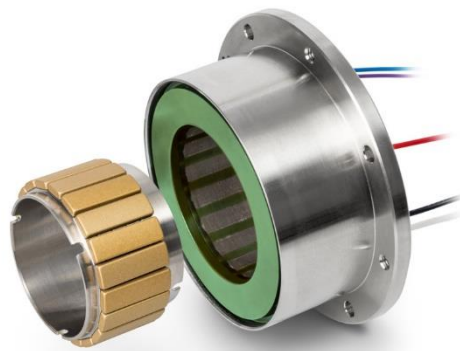
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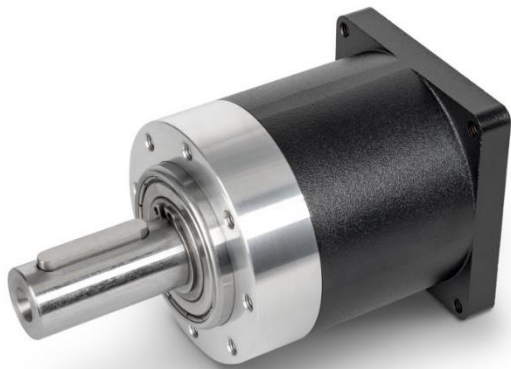
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*The ECX PRIME 6 with an outside diameter of just 6 mm.*



*The EC frameless DT65 with large hollow shaft.*



*The new GPX70 – a large, configurable planetary gearhead.*



*The new ECX FLAT 32 with integrated electronics.*

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## **maxon: The Swiss specialist for quality drives**

maxon is a developer and manufacturer of brushed and brushless DC motors, as well as gearheads, encoders, controllers, and entire mechatronic systems. maxon drives are used wherever the requirements are particularly high: in NASA's Mars rovers, in surgical power tools, in humanoid robots, and in precision industrial applications, for example. To maintain its leadership in this demanding market, the company invests a considerable share of its annual revenue in research and development. Worldwide, the maxon Group has more than 3200 employees at nine production sites and is represented by sales companies in more than 30 countries.