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# maxon showcases five powerful compact drives at SPS 2022

**maxon is launching five new products at the upcoming SPS trade fair in Nuremberg. All products are designed with particularly efficient use of resources and compactness in mind. They include the ECX SPEED 8 motors with pin connection, the integrated ENX 32 MILE encoder for drives from the ECX flat motor series with 32 mm diameter, as well as the powerful IDX 56 and 70 industrial drives. Now there are even more technical solutions available for extremely compact and tight spaces.**

## **ECX SPEED 8 motors with pin connection**

The ECX SPEED 8 motors now also come with pin connection for a space-saving design. The new connection variant can now be configured in the online shop for all ECX SPEED 8 motors. Pin connections are made for installation of drives in compact devices or systems where the available space is limited, or easy cleaning is required. Typically, the pin variant is used in medical technology, such as in surgical robots, hand prosthetics, and implants.

## **ENX 32 MILE encoder for tiny drives**

With the new ENX 32 MILE encoder, maxon is expanding the ECX FLAT 32 series of flat motors. The inductive encoder is integrated in the motor, resulting in an extremely short drive unit. The ENX 32 MILE is the smallest MILE encoder currently available and offers an impressive resolution and high accuracy. The encoder with inverse signals is also resistant to both magnetic and electrical fields, as well as dirt. The ENX 32 MILE will be available at our online shop in April of 2023. Samples will be available to order as early as mid-November 2022.

## **MicroMACS6 multi-axis controller**

Another new product is the ultra-compact MicroMACS6. The programmable motion controller is designed to synchronize several axes in real time. This master controller is available with an optional Bluetooth service and support interface for the first time. The MicroMACS6 has no power stages, and autonomously controls up to six axes. The controller has two independent CAN interfaces, as well as an Ethernet and a USB interface. The MicroMACS6 is ideal for equipment engineering and is compatible with ESCON and EPOS power stages.

## **IDX 56 and IDX 70**

Another milestone in torques is the powerful combination of the industrial drive IDX 56 and the GB 28 worm gear from Parvalux, with a peak torque of up to 8 Nm. Even more powerful is the new IDX 70 with the configurable GPX 70 planetary gearhead. Its peak torque is 87.5 Nm.

## EC frameless DT product family

Two new EC frameless DT85 M and L motors are paving the way for what some customers have already observed, namely a new product range covering different size and power needs. Based on the already successful EC frameless DT50 motor, the new motor size covers applications with the highest requirements for torque. The features of the EC frameless DT motor series include minimal rotor inertia, excellent heat dissipation, compactness, and extremely simple integration. All motors from this product family are perfectly matched to each other. This motor also allows for large hollow shafts, which are used for the power supply or signal lines. The DT85 will be available in sizes M and L at the beginning of 2023. As with the DT50, a TSX MAG encoder is also available.

maxon will be showcasing these new products at the SPS in Nuremberg, November 8–10, 2022. For more product news, watch our [new product video](#).

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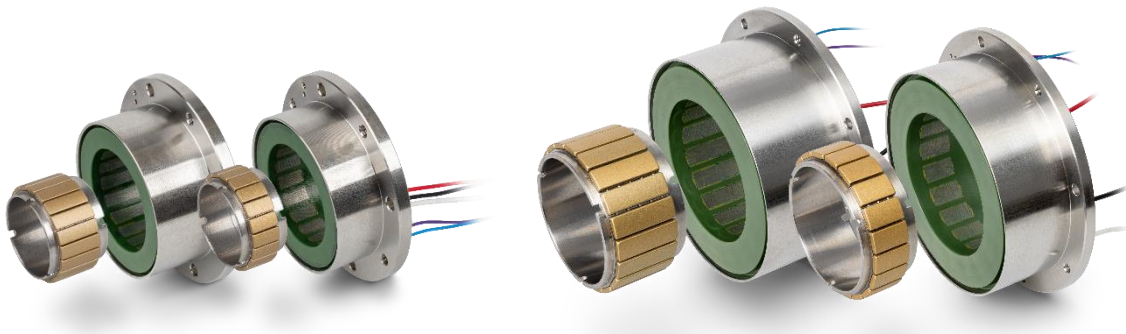


Figure: On the right are the new EC frameless DT85M and L motors, on the left are the previously launched EC frameless DT50 motors