

Press Release, September 23th, 2024

Compamed trade fair: maxon presents the world's first miniaturized and robot-assisted surgical device MIRA

The Swiss drive specialist maxon will present a special highlight at the Compamed trade fair from November 11 to 14, 2024 in Düsseldorf: The MIRA Surgical System from Virtual Incision will be on display. MIRA is the world's first miniaturized and robot-assisted surgical device. It works with the maxon ECX Speed 6 and 8 mm drives (sterilizable).

MIRA became commercially available for use in colorectal procedures in the U.S earlier this year. It is currently being used in Switzerland in a clinical study to assess the device in benign hysterectomy procedures, with the intention of using the data for international regulatory submissions. The small and sleek form factor extends the opportunity for robotic-assisted surgery (RAS) to more patients and surgeons, by making every operating room robot-ready.

As the first robot of its kind, Virtual Incision and maxon collaborated on the design of MIRA. The maxon motors are housed within the arms of the minibot allowing the device to perform complex multi-quadrant procedures, such as mobilization of the colon during colon resection, on many different types of patients. The rigid arms with internally mounted motors provide the necessary force, control and precision for surgical procedures while enabling the triangulation of the camera and instruments.

MIRA can be seen at the maxon booth during the [Compamed trade fair](#) in Düsseldorf, Germany – Hall 8a, Booth G16.

On-site in Düsseldorf, maxon will showcase other product highlights, including the **ECX Prime 18L**. This second size of the highly powerful ECX PRIME motor series is a real powerhouse. Equipped with ironless windings and 4-pole rotor designs, the brushless PRIME motors exhibit an exceptionally stiff torque-speed behavior, enabling very stable control in highly dynamic applications.

Another highlight at the booth is the diverse selection of technical ceramics. Thanks to Ceramic Injection Molding (CIM) and other manufacturing processes such as 3D printing and extrusion in combination with special post-processing methods, maxon produces highly complex ceramic shapes with unique precision and the highest quality.



Further information

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Image material

Images can be downloaded from the [media section on our website](#) by clicking the download button on the corresponding media release.

About maxon: The Swiss specialist for quality drives

maxon is a leading provider of precise electric motors and drive systems, developing drive solutions tailored to the needs of customers in the fields of medical technology, industrial automation, aerospace, mobility, and robotics. Founded in 1961, the Swiss company is family-owned and headquartered in Sachseln (OW). The maxon group employs around 3,300 people worldwide at nine production sites and is represented in over 40 countries.

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