

*Dear readers,*

April has been an intense and exciting month for NanoSen.

At **Hannover Messe 2026**, we spent a full week engaging with engineers, researchers, and developers from a wide range of industries. At the same time, we publicly introduced a new collaboration with **Sarcomere Dynamics** - marking an important step towards the integration of our sensing technology into robotics applications. Across hundreds of conversations, one thing became very clear: the demand for reliable and precise force sensing continues to grow rapidly.

*Enjoy reading!*

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## Hannover Messe - A Week of Real-World Applications



What stood out most throughout the week was the level of practical relevance in these discussions. Rather than abstract use cases, many conversations focused on real integration challenges in robotics, automation, and human-machine interaction. At the same time, the strong presence of **humanoid robotic systems** across the exhibition showed where many of these applications are heading. Advanced interaction and safe handling increasingly require accurate, stable force feedback.

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## First Public Step in Our Collaboration with Sarcomere Dynamics

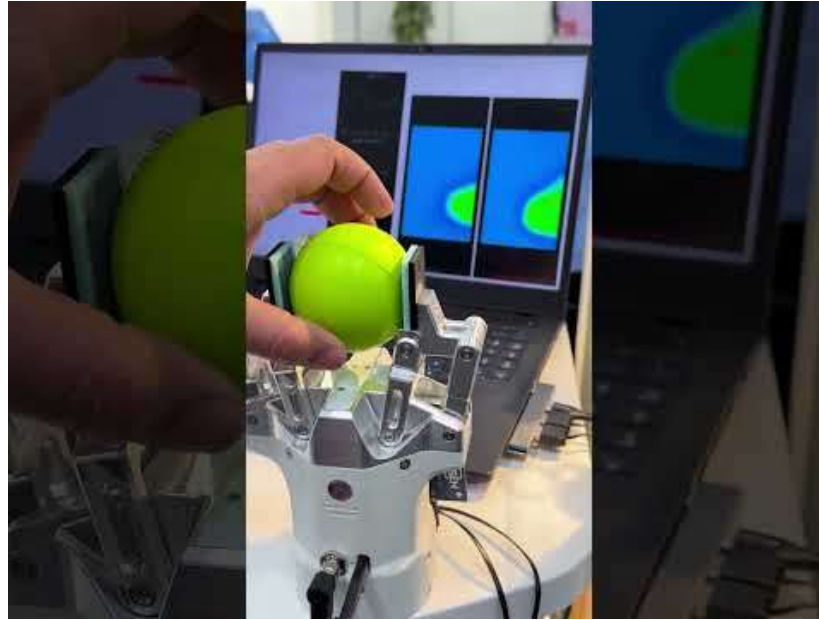
A key highlight at our booth was the first public presentation of our collaboration with **Sarcomere Dynamics**.

Together, we introduced an initial prototype of the **Scorpion Gripper**, integrating our sensing technology directly into a robotic gripping system.

The gripper prototype is based on a **force sensing matrix with 4 × 6 rows**, using **4 mm sensor elements**, integrated into the gripper structure. During live demonstrations, the system showed:

- **Real-time visualization of force distribution** during gripping
- **Adaptive gripping behavior** when interacting with objects
- **Slip-detection & Immediate response** to changes in contact conditions

When an object was placed between the gripper fingers, the system automatically adjusted its grip - preventing excessive force while maintaining a stable hold.



## From Prototype to Future Integration

The presented prototype represents an initial step within the collaboration. The ongoing work now focuses on further development and system integration. One of the long-term perspectives of this project is the integration of force sensing into more advanced robotic systems, including Sarcomere's **humanoid robotic hands** such as the *Artus Dex platform*.

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## Looking Ahead

Hannover Messe once again highlighted how important robust and flexible sensing solutions have become for next-generation systems.

We will continue these discussions in the coming weeks, next in **Leipzig at OTWorld** and in **Boston at the Robotics Summit & Expo**.

Best regards,

**The NanoSen Team**

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