Press release
Bosch Sensortec

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Bosch sensor platform turns robots into real movement talents
Seamless user experience enabled by a new precision sensing standard

- Three product variants address robotics, XR headsets and glasses, wearables, and beyond.
- Bosch maintains its leadership in the MEMS sensor market, projected to exceed $19.2 billion by 2030 with a 4 percent compound annual growth rate.
- A new benchmark in measurement accuracy for premium consumer electronics device makers.

Las Vegas, NV – At the pulsating heart of the robotics revolution and the rapidly expanding world of Extended Reality (XR) lies a silent, yet indispensable technology: MEMS (Micro-Electro-Mechanical Systems) sensors. Much like the complex senses that guide living organisms, these tiny, sophisticated devices serve as the foundational pillar, endowing machines with the crucial ability to perceive and understand their own motion and orientation. This spatial awareness transforms complex algorithms into fluid movements and immersive digital experiences.

Three new high-end sensors for the growth market

At CES® 2026, Bosch Sensortec introduces the BMI5 platform, a new generation of inertial (acceleration and gyroscope) sensors designed to provide high-precision performance with ultra-low noise to capture every nuance of motion across multiple device classes. Built on a shared hardware foundation and adapted through intelligent software, the platform launches with three variants – BMI560, BMI563 and BMI570. The BMI5 family products are addressing the premium segments of consumer electronics device manufacturers, building the base for the growing MEMS sensor market. According to market research and strategy consulting company Yole Group, this market with Bosch as the market leader, is expected to grow to more than 19.2 billion USD by 2030, with an average compound annual growth rate (CAGR 2024-2030) of 4 percent.* To

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meet the high-volume serial production demands, the cleanroom area in its own Bosch wafer fab in Reutlingen, Germany was expanded from approximately 35,000 square meters to over 44,000 square meters by the end of 2025.

Specific solutions for diverse applications

The BMI560 sensor makes virtual and augmented reality experiences feel incredibly real. It precisely tracks head movements with almost no delay, allowing users to interact naturally in 3D environments. Advanced image stabilization helps smartphones and action cameras capture clear, shake-free photos and videos, even on the go.

The BMI563 is handling vibrations and extreme movements, making it ideal for robots that need to navigate precisely or for controllers in virtual reality that track every subtle hand gesture. It helps these devices understand their surroundings and movements with exceptional accuracy. For example, Bosch's new MEMS sensor helps a humanoid robot find the right way, even if the camera lens is covered by an object.

The BMI570 enhances smartwatches and wireless earbuds. Compared to its predecessor, the new platform delivers a doubled measurement range. This enables the detection of an even wider array of movements and gestures, particularly those in dynamic forms. For hearables it provides accurate head-orientation data for immersive 3D audio experiences. This means music or calls can sound like they're coming from a specific direction, reacting to how the user is moving.

Technical AI excellence paired with responsible innovation

An Edge-AI classification engine helps the device stay “always on” by recognizing movement patterns directly inside the sensor. This uses less power, makes reactions faster, and adds smart benefits — like automatic activity detection on a smartwatch without the user needing to interact. Across all variants, the BMI5 platform meets Bosch Sensortec’s highest ecological standards to date, combining technical performance with responsible innovation. This unified architecture enables device makers to streamline cutting-edge and at the same time a sustainable development across product lines. “With the BMI5 platform, we are strengthening the foundation for the next generation of motion-aware devices,” said Stefan Finkbeiner, CEO of Bosch Sensortec. “Our customers benefit from a consistent level of precision, robustness and exceptional performance across all variants - enabling responsive XR systems, reliable robotics and intuitive wearables. The platform combines technical excellence with responsible innovation, reflecting our core Bosch values of quality and sustainability supporting a wide range of applications with a single,

scalable architecture. And this was just the beginning. The BMI5 family continues to grow, with more variants already in the pipeline."

**Source: Status of the MEMS Industry 2025 report, Yole Group.*

Availability:
Samples are now available for direct customers, and the complete product line-up will go into high-volume series production from Q3 2026 onwards.

Press photographs and infocharts are available on the Bosch Media Service at www.bosch-press.com.

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Bosch at CES 2026:

PRESS CONFERENCE: Monday, Jan. 5, from 9:00 to 9:45 a.m. PST (from 18:00 to 18:45 p.m. CET) with Dr. Tanja Rückert, member of the board of management of Robert Bosch GmbH, and Paul Thomas, president of Bosch in North America, in Ballroom Banyan ABCD, Mandalay Bay Hotel, Las Vegas, **South Convention Center, Level 3,** as well as **livestreamed** on the Bosch Media Service.

BOOTH: Jan. 6 – 9, in the Central Hall, booth #16203.

PANELS WITH BOSCH EXPERTS:

- **Jan. 6**
  Personalized by Software & AI: Reimagining the In-Vehicle Experience
  11:20 a.m. PST, West Hall Mobility Stage, session with Christopher Prediger, vice president, Compute Performance, Cross-Domain Computing Solutions, Bosch.

Advancing Human Security and Smart Mobility in Connected Communities
4 p.m. PST, Las Vegas Convention Center North / N261, session with Oliver Steinbis, managing director at Bosch Secure Authentication GmbH.

- **Jan. 7**
  Personalized Performance: Software-Defined Power, Steering and Braking
  9:40 a.m. PST, West Hall Mobility Stage, session with Philipp Ibele, executive vice president, engineering and board member, Electrified Motion, Bosch, and Rich Nesbitt, vice president for product management, Vehicle Motion, Bosch.

  The Latest in Smart Devices and Smart Home Integration
  11 a.m. PST, Las Vegas Convention Center West / N218, session with Darcy Clarkson, CEO BSH in North America.

  From Data to Experience: AI at the Core of Next Gen Mobility
  4:30 p.m. PST, AI Foundry Stage at Fontainebleau Las Vegas, session with Mariela Minutolo, executive vice president, sales & marketing, and board member, ETAS, and Christian Koepp, senior vice president, Compute Performance, Cross-Domain Computing Solutions, Bosch.

- **Jan. 8**
  From Hands Off to Eyes Off: The Race to Level 4 Automation
  9 a.m. PST, Las Vegas Convention Center West / W219, session with Fedra Ribeiro, executive vice president, sales, and board member, Cross-Domain Computing Solutions, Bosch.

  Collaborating for Software-Driven Mobility
  Jan. 8, 9:40 a.m. PST, West Hall Mobility Stage, session with Eric Cesa, vice president, ETAS Americas.

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 418,000 associates worldwide (as of December 31, 2024). The company generated sales of 90.3 billion euros in 2024. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, electrification, digitalization, connectivity, and an orientation to sustainability. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in sensor technology, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture user-friendly, sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 490 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch's innovative strength is key to the company's further development. At 136 locations across the globe, Bosch employs some 87,000 associates in research and development.

Additional information is available online at www.bosch.com, www.bosch-press.com.

Bosch Sensortec GmbH, a fully owned subsidiary of Robert Bosch GmbH, develops and markets a wide portfolio of microelectromechanical systems (MEMS) sensors and solutions tailored for smartphones, tablets, wearables and hearables, AR/VR devices, drones, robots, smart home and IoT (Internet of Things) applications. The product portfolio includes 3–axis accelerometers, gyroscopes and magnetometers, integrated 6– and 9–axis sensors, smart sensors, barometric pressure sensors, humidity sensors, gas sensors, optical microsystems and comprehensive software. Since its foundation in 2005, Bosch Sensortec has emerged as the MEMS technology leader in the markets it addresses. Bosch has been both a pioneer and one of the leading providers in the MEMS sensor segment since 1995 and has, to date, sold more than 23 billion MEMS sensors.

For more information, please visit www.bosch–sensortec.com, community.bosch–sensortec.com, linkedin.com/company/bosch–sensortec/, youtube.com/user/BoschSensortec