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Explanation of symbols

★ This symbol marks an IZB world premiere.

PRODUCTS TO WATCH BY Automobilwoche A GRAIN FAMILY BRAND izb

This logo marks one of our "Products to watch". Our main media partner Automobilwoche has selected the 15 most outstanding innovations of the IZB 2026 from all the entries.

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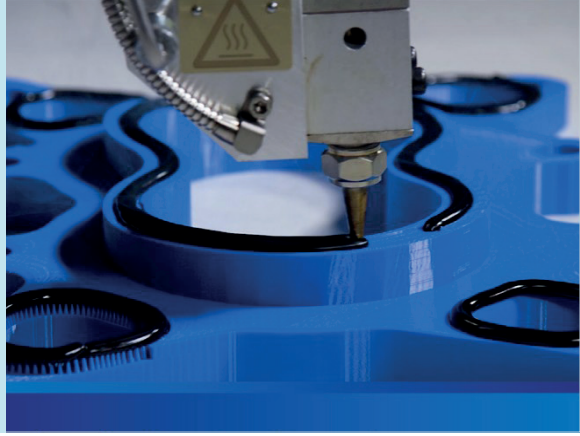
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3M™ VHB™ Extrudable Tapes are debondable and feature an innovative stretch release technology for easier rework

3M™ VHB™ Extrudable Tapes for Bonding and Sealing in a Single Process Step

3M
Hall 1 | Stand 1220

3M™ VHB™ Extrudable Tapes are automation-ready, pressure-sensitive bonding solutions that combine bonding and sealing in one step, delivering immediate handling strength without curing or fixturing. Supplied in a linerless coiled-spool format, they support precise automated dispensing, reduce waste and changeovers, enable easier rework through stretch-release technology, and help manufacturers improve throughput, consistency, labor efficiency, and streamline manufacturing processes across a broad range of industrial assembly applications. The solution is available globally, with performance validated across multiple industries. It supports efficient assembly processes and flexible vehicle design.

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Delivers up to 5x greater sensing coverage, all-weather reliability, and enhanced 360° perception for safer parking and urban maner

Aptiv PULSE™ Sensor

Aptiv
Hall 6 | Stand 6301

Aptiv PULSE™ is an innovative near-range perception sensor that combines a surround-view camera and an ultra-short-range radar in a single compact module. Designed for parking and low-speed urban maneuvers, PULSE provides continuous 360° perception around the vehicle with greater reliability, range, and environmental robustness than traditional ultrasonic sensor systems. By fusing radar and camera data, it accurately detects pedestrians, curbs, obstacles, and other road users while operating in rain, snow, darkness, and glare. Installed in existing surround-view camera locations, PULSE can replace multiple ultrasonic sensors, reducing system complexity, wiring, and cost. Beyond improving parking performance, it enables features such as 3D surround view, rear automatic emergency braking, rim and door protection, over-drivability detection, and future low-speed automated driving functions.

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Advanced Occupancy Classification enables safer airbag deployment through real-time AI occupant detection

Advanced Occupancy Detection

Aptiv
Hall 6 | Stand 6301

Advanced Occupancy Classification (AOC) is Aptiv's AI-based, camera-based occupant monitoring solution that uses an existing in-cabin camera to detect, classify, and monitor vehicle occupants in real time. By analyzing occupant presence, size, posture, position, and behavior, the system supports appropriate airbag deployment and distinguishes between adults, children, child seats, out-of-position occupants, and everyday objects. Compared with conventional seat-based sensing systems, AOC replaces dedicated weight, pressure, and capacitive sensors, reducing hardware complexity and potentially lowering system costs by up to 40%. The software-defined solution supports FMVSS 208 compliance, aligns with Euro NCAP objectives, enables over-the-air (OTA) updates, and supports future intelligent cabin safety and comfort functions.

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Gen 8 4D radar offering up to 325 m detection range, 25% higher resolution, a wider field of view, and AI-ready perception

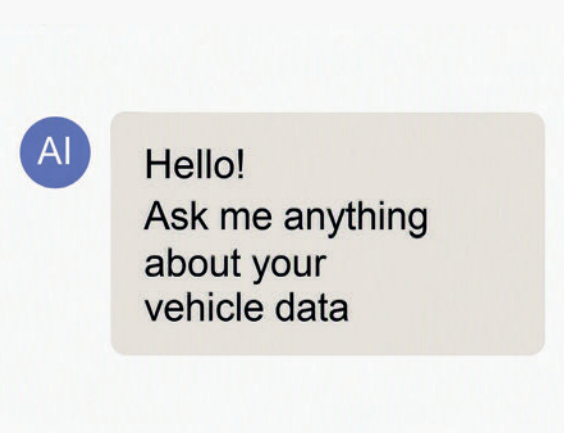
Gen 8 Radar

Aptiv
Hall 6 | Stand 6301

PRODUCTS TO WATCH BY Automobilwoche A CRAIN FAMILY BRAND izb

Aptiv's Gen 8 Radar family is an advanced sensing platform for AI-powered ADAS and future automated driving applications. Combining Aptiv's proprietary silicon, antenna technology, and advanced signal processing, the platform provides high detection range, resolution, and object detection performance in all weather and lighting conditions. The portfolio includes front and corner 4D radars capable of detecting, classifying, and tracking vehicles, pedestrians, cyclists, road debris, and complex road features. A wider field of view, extended detection range, and more detailed sensor data support improved safety, enhanced driving automation, and scalable vehicle architectures, contributing to the transition toward software-defined vehicles and higher levels of autonomy.

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Aptiv Qualifier AI Insights generates interactive visualizations and recommends next steps for vehicle issue analysis

Qualifier AI Insights

Aptiv
Hall 6 | Stand 6301

Aptiv Qualifier AI Insights is an AI-based solution trained specifically on vehicle data and typical validation workflows. It supports engineers by analyzing vehicle data, generating visualizations, and prioritizing validation activities. The solution helps experienced engineering teams improve validation efficiency while enabling new team members to become productive more quickly. In addition, Aptiv Qualifier AI Insights supports the early identification of potential quality issues and contributes to more efficient development and validation processes before production.

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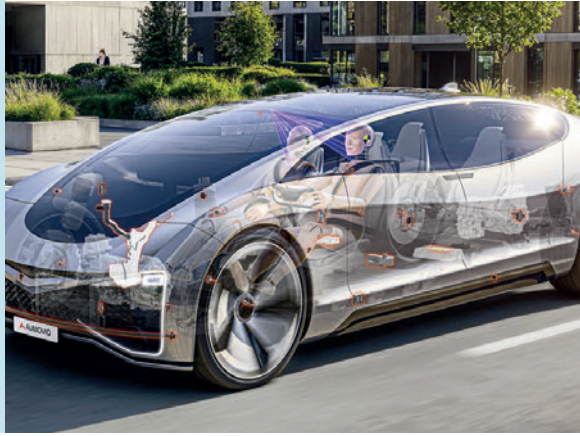
Modular Connectors Clear the Way for Automation Innovation

Modular Connectors for Automated Vehicle Wiring Harnesses

Aptiv
Hall 6 | Stand 6301

Aptiv is developing modular connectors for flexible and standardized vehicle wiring harnesses. Instead of using multiple connector interfaces, the solution uses a common housing with interchangeable modules for signal, power, and high-speed data. Designed for automated assembly and auto-plugging, it reduces the risk of wire damage and enables smaller wire gauges, lower weight, and reduced system costs. By combining different terminal types within a single connector platform, harness designs can be optimized while supporting manufacturing and quality processes. The modular housing also allows terminal configurations to be updated without redesigning the connector system. Its standardized geometry is suitable for automated assembly and supports scalability and platform reuse across different vehicle architectures.

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Accelerate XEV innovation globally with our E Mobility Sensors - delivering proven benefits across batteries, chassis and e motor

Driving E-Mobility Forward with Efficient, Safe and Reliable Sensor Solutions

AUMOVIO
Hall 6 | Stand 6326

PRODUCTS TO WATCH BY Automobilwoche A CRAIN FAMILY BRAND izb

AUMOVIO's E-Mobility Sensor portfolio supports the megatrends of electrification and sustainability across xEV platforms, from hybrid to fully electric vehicles. The portfolio comprises a broad range of solutions, from high-precision sensing technologies to advanced multifunctional sensor and monitoring systems.
The sensor solutions deliver clear vehicle benefits:

- eMotor Rotor Temperature Sensor: Increased efficiency and reduced use of critical raw materials
- High- and Low-Voltage Battery Monitoring and Thermal Runaway Sensors: Enhanced vehicle and passenger safety
- Acceleration Road Noise Sensor: Improved ride comfort, NVH (noise, vibration and harshness) performance and fuel economy.

By optimizing the performance of critical vehicle systems, these sensor solutions contribute to safer, smarter and more sustainable electric mobility.

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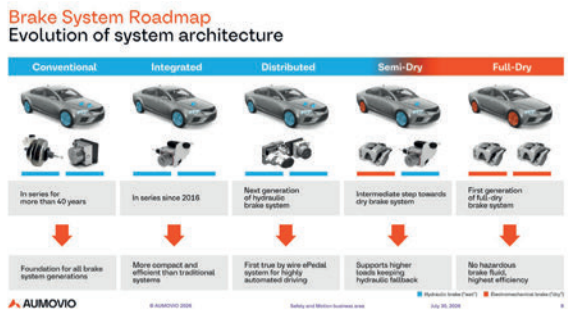
Scenic View Vizor with In2Visible: A display solution for a new cockpit experience with intuitive interaction

Premium viewing experience and new possibilities for cockpit design

AUMOVIO
Hall 6 | Stand 6326

At the IZB, visitors can experience the next generation of in-vehicle visualization with the Scenic View Vizor with In2visible Display. The windshield-independent display solution (see image) by AUMOVIO delivers a premium viewing experience while opening new possibilities for cockpit design. Featuring a highly reflective standalone projection surface, advanced local dimming technology, and seamless integration into various vehicle architectures, the Scenic View Vizor with In2visible Display enables crisp image quality, enhanced comfort, and greater design freedom. Anyone interested can discover how innovative display technology can bring information into a new dimension.

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Brake System Roadmap

Brake System Roadmap – Smart braking. Safe motion. Pure comfort.

AUMOVIO
Hall 6 | Stand 6326

AUMOVIO presents a five-stage modular brake system portfolio ranging from wet to fully dry solutions. The portfolio is modular and scalable across ICE, HEV, and BEV platforms and is suitable for vehicle classes from A to E as well as light commercial vehicles. Depending on the system configuration, selected solutions can support highly automated driving and be adapted to different vehicle architectures.
Conventional brake systems form the foundation of AUMOVIO's roadmap and remain a reliable solution for many applications.
The One Box brake system marks the transition to brake-by-wire by integrating key braking functions into a single compact unit, reducing complexity and simplifying vehicle integration.
The distributed brake system takes brake-by-wire to the next level with best-in-class performance and a scalable, fail-operational architecture designed for software-defined and highly automated vehicles.
Semi-dry and dry brake systems enable independent brake force control and support optimized driving dynamics. In electric vehicles, they can also contribute to increased range and reduced maintenance requirements, depending on the system configuration.

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With CoSmA cloud solutions, AUMOVIO delivers standardized end-to-end digital key management from a single source

CoSmA cloud solutions – End-to-end standardized digital key management

AUMOVIO
Hall 6 | Stand 6326

With CoSmA Cloud Solution, AUMOVIO provides digital key management based on the global standard of the Car Connectivity Consortium (CCC). The solution enables secure and interoperable management of digital keys and connects vehicles, mobile devices, and cloud services within a single ecosystem. Digital keys can be created and managed in the cloud. This server-based key management enables flexible assignment of access rights independently of the vehicle owner's device and provides greater transparency across connected vehicles. Vehicle access can be securely granted to and revoked from authorized users. Thanks to native integration with iOS and Android, digital keys can be used without an additional app. Through Apple Enablement, the AUMOVIO Cloud provides certified digital keys via wallet solutions for CCC-compliant vehicles and fleets.

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Configure and validate complete digital cockpit experiences virtually, enabling hardware-independent SDV development at scale

EB civion Creator – Virtual cockpit and applications development by Elektrobit

AUMOVIO
Hall 6 | Stand 6326

EB civion Creator is a cloud-native solution from Elektrobit (part of AUMOVIO) for the virtual development of HMIs, cockpits, and in-vehicle applications. It enables OEMs and suppliers to prototype, develop and validate software virtually for software-defined vehicles (SDVs) before target hardware exists.

EB civion Creator provides a virtual environment for Android Automotive (AAOS to AAOS SDV), Linux, and AUTOSAR, supporting virtual displays, simulated signals, HAL emulation, and Binder IPC virtualization.

A key focus is virtual HMI development, allowing teams to create and validate in-vehicle experiences without prototype hardware using low-code theming, UI customization, and multi-display simulation. CI/CD integration, automated testing, and cloud-based collaboration support software development throughout the development lifecycle.

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ARS/SRR730: radar sensor for scalable ADAS performance and safer mobility

Next-Generation Radar for Enhanced Safety in Automated Driving

AUMOVIO

Hall 6 | Stand 6326

AUMOVIO's ARS/SRR730 is a scalable automotive radar sensor family for automated driving functions from urban environments to rural roads and highways. Its precise 360-degree environmental sensing also supports parking and maneuvering functions. The sensor family combines a new radar architecture with advanced radar-on-chip technology, high data bandwidth, and intelligent interference suppression. This enables the detection of smaller objects and relevant traffic situations while supporting different vehicle architectures. ARS/SRR730 supports both Radar Data Interface (RDI) and object output, enabling integration into different E/E and ADAS architectures. The sensor family is designed for future L2/L2++ and L3 driving functions and supports the scalability of radar solutions across global vehicle platforms.

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Real-Time Costing: AI sums costs instantly. Quantifies gaps vs targets via cost DB. Heat maps show overruns.

Blue Print Platform-AI-Powered Automotive Product Decision Intelligence

AUTODATAS

Hall 6 | Stand 6106

Enable the automotive industry to make product decisions more efficiently through an intelligent data platform. Leverage software and AI technologies to access and analyze multidimensional data within a unified platform, allowing teams to rapidly define products and evaluate alternatives. Achieve target outcomes through integrated technical and cost optimization, enabling faster and more informed decision-making. Significantly shorten the vehicle development cycle by streamlining workflows and reducing communication overhead across teams. Provide a "what-you-see-is-what-you-get" product definition experience, improving transparency and alignment throughout the development process. Deliver up to 50 percent efficiency gains in specific use cases by accelerating analysis, decision-making, and cross functional collaboration.

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Test Faster. Validate with Confidence. Accelerate Development.

Smartphone Access Validation – Validate Vehicle Access Safely and Efficiently

Battenberg ROBOTIC GmbH & Co. KG
Hall 1 | Stand 1212

PRODUCTS TO WATCH BY Automobilwoche A CRAIN FAMILY BRAND izb

Reliable validation of smartphone-based vehicle access is essential for both convenience and security. RobMobil (see image), Battenberg's autonomous testing platform featuring a human body phantom, automatically positions smartphones in all relevant zones around the vehicle. The vehicle's sensors are tested with high precision, and the exact smartphone position is validated—repeatably and without time-consuming manual testing. Combined with a digital twin, hundreds of test points can be simulated, while measured results are automatically compared with target values. The result: significantly shorter test cycles, reduced development costs, and faster, more reliable validation of modern Digital Key systems.

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Reproducible, comparable measurement data, shorter development cycles, and targeted optimization of the user experience

Testing Customer Behavior & User Experience

Battenberg ROBOTIC GmbH & Co. KG
Hall 1 | Stand 1212

Battenberg ROBOTIC enables objective evaluation of in-vehicle user experience through automated robotic testing. The solutions simulate real user interactions and assess the haptics, visual quality, and functionality of infotainment systems, doors, and displays (see image). Parameters such as force, travel, torque, luminance, color, touch response, and gesture recognition are measured with high precision. Virtual simulation further optimizes and validates test sequences before deployment on the real system. The result is reproducible, comparable measurement data, shorter development cycles, and optimized user experience from development through series production.

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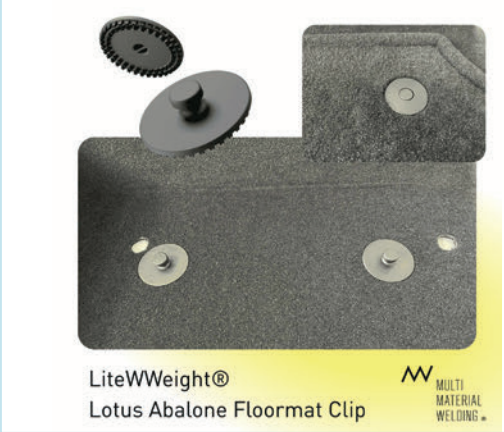
BCT product line up

Forward-looking design for rivet nuts

BBA SRL
Hall 4 | Stand 4241

BCT® (see image) is the revolutionary design of rivet nuts. With four cross holes on the shank, we can control where the bulge starts forming in a range of materials from steel to composite materials. The controlled bulge ensures optimal fitting even into holes not perfectly round or irregular or oversized. The position of these cross holes and the dimensions of the product lead to different types of BCT® Rivet nuts. The BCT® has no radial expansion in to the sheet material reducing cracks or delamination. Additionally, this allows the BCT® to be installed closer to the edge of a brittle profile. The BCT® bulge will form where the holes are placed in accordance to the required material thickness. The BCT® has approximately a 50% higher pullout force due to the full contact of the bulge on the sheet material and a higher quality of blind rivet nut material. Avalable also Spacer and Duble Bulge.

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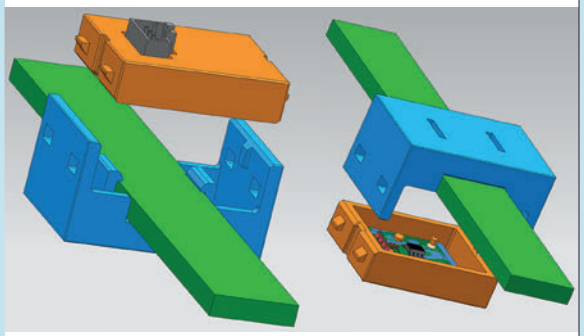
LiteWWeight® Lotus Abalone floor mat retention clip installed in an automotive carpet

From Two Components to One –
Reducing Material by 50% and Improving Assembly Efficiency

Bossard Austria Ges.m.b.H.
Hall 3 | Stand 3327A

MultiMaterial-Welding AG develops innovative joining solutions for lightweight materials. Using MM WELDING® technology, thermoplastics are embedded by ultrasound directly into textile and fibrous materials, creating strong and reliable joints without adhesives or additional fastening elements. Lotus Abalone applies this principle to automotive interiors. The one-piece eyelet is integrated directly into the vehicle carpet, combining carpet attachment and floor mat retention in a single component (see image). Compared to conventional two-piece solutions, material consumption is reduced from 16 g to 8 g per component while maintaining the same load-bearing performance. Fewer parts, lower material usage, and a fast, fully automated assembly process increase efficiency throughout the entire manufacturing chain. The solution is production-ready and already in use by leading automotive manufacturers.

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Bourns Clip-On Current Sensor mounted on a standard rectangular busbar – no notches or mechanical busbar modifications required

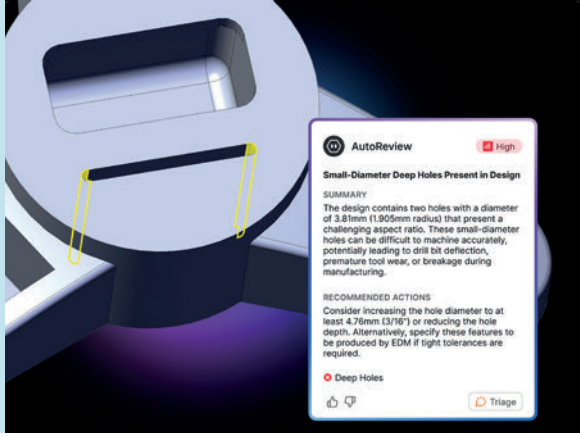
Clip-On Current Sensor for Cost-Sensitive Applications

Bourns Electronics GmbH
Hall 3 | Stand 3117

PRODUCTS TO WATCH BY Automobilwoche A CRAIN FAMILY BRAND izb

The Clip-On Current Sensor (see image) from Bourns Electronics GmbH combines Tunnel Magnetoresistance (TMR) technology with a modular, installation-friendly housing. It clips directly onto a standard rectangular busbar – without notches, cut-outs or other mechanical modifications. Interchangeable mounting clips accommodate different busbar sizes, while the measurement range can be configured electronically. TMR technology enables precise current measurement with high tolerance to positioning variations. The compact design simplifies integration, saves space, reduces overall system costs and supports scalable product variants. It is ideally suited for automotive, industrial and energy applications where accuracy, robust installation and cost efficiency are equally important.

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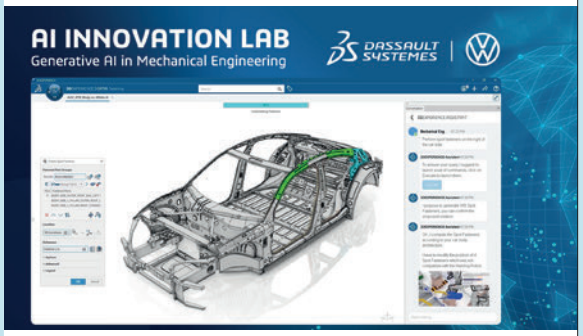
AutoReview identifies potential design issues during virtual design reviews

AI that shapes engineering decisions in real time

CoLab AI Inc
Hall 3 | Stand 3213

CoLab is a design review platform that supports hardware engineering teams in identifying and resolving potential design issues early in the product development process. It provides a centralized environment for conducting design reviews, capturing feedback, and reusing knowledge from previous projects. As a Design Engagement System (DES), CoLab enables browser-based virtual design reviews, allowing subject matter experts, suppliers, and customers to review CAD models and technical drawings without specialized software. Review feedback is automatically captured and organized in a searchable knowledge base. AI capabilities, including AutoReview and AI Lessons Learned, analyze this information to identify potential design issues and provide relevant insights from previous projects early in the development process.

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AI in Automotive Engineering - AI Innovation LAB

AI in Automotive Engineering - AI Innovation LAB

Dassault Systèmes
Hall 6 | Stand 6307

At the AI Innovation LAB, Volkswagen and Dassault Systèmes jointly develop AI-powered engineering solutions on the 3DEXPERIENCE platform. As an incubator, the AI Innovation LAB enables the rapid development and real-world validation of innovative applications.

The focus is on process automation and agent-based AI solutions across the entire value chain of mechanical engineering and design. The goal is to increase engineering efficiency while reducing development time and costs.

Through close collaboration among the relevant engineering teams and short, agile development cycles, new AI applications are developed, tested under real-world conditions, and continuously refined. This enables innovative AI concepts to be evaluated quickly and promising solutions to be transferred into practical engineering applications.

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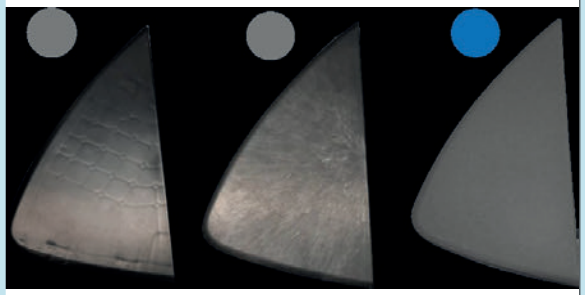
Driving Premium Performance: Intelligent Protection for Zonal Architectures

Intelligent Protection for Zonal Architectures

DRÄXLMAIER Group
Hall 3 | Stand 3316

The transition to zonal architectures is creating new requirements for vehicle electrical systems. DRÄXLMAIER combines electrical systems, electronics, and system architecture to develop integrated solutions for modern vehicle electrical architectures. At the core of these solutions are intelligent electronic power distribution units that provide energy efficiently, safely, and according to demand. They perform key circuit protection functions and form the basis for high-performance zonal architectures. The combination of electrical and electronic technologies enables coordinated system solutions from a single source. In addition, DRÄXLMAIER's expertise in electronic modules supports the integration of advanced vehicle functions into premium interiors, contributing to future-oriented vehicle architectures.

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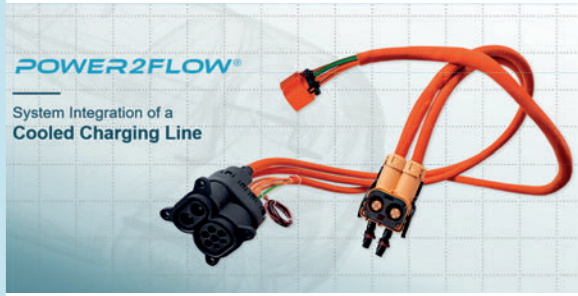
Compact injection moulding (left), foamed without CERAFoam (centre) and foamed with CERAFoam

Foamed components in automotive interiors – new possibilities thanks CERAfoam

Eschmann Textures International GmbH
Hall 1 | Stand 1208

In foam injection moulding, surface defects (known as foam or silver streaks) typically occur on the component surface, which limit or prevent the use of the technology for design surfaces in visible areas. The advantages of the thermoplastic foam injection moulding (TSG), such as weight reduction, simpler component design and more homogeneous surface finish, cannot be utilised for a wide range of applications. CERAFoam offers a simple solution here: by applying a thin ceramic coating incorporating design surfaces developed to the customer's specifications, the foaming process can be controlled in such a way as to suppress foam streaks (see image). A further development of the technology also enables its use on conventionally grained surfaces – whether laser-textured or chemically etched. This opens a broader range of applications.

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© GG Group: fully coordinated electro-thermal charging architecture with Power2Flow®

Power2Flow®: Actively Liquid-Cooled High-Voltage Charging Harness

Gebauer & Griller Kabelwerke Gesellschaft m.b.H.
Hall 6 | Stand 6418

PRODUCTS TO WATCH BY Automobilwoche A CRAIN FAMILY BRAND izb

GG Group, VOSS Automotive, and Amphenol-Tuchel Electronics have jointly developed a liquid-cooled high-voltage charging harness for fast-charging applications. By integrating liquid cooling directly into the cable, Power2Flow® significantly reduces material usage while supporting higher charging performance. A functional CCS2 version is already available, and additional interface standards, including NACS, CCS1, GB/T, and CHAdeMO, are supported. The unique combination and integration of cable design, connector technology, and fluid-based thermal management increases current-carrying capacity by up to 70% compared with conventional non-cooled high-voltage charging systems. The system solution is fully scalable and designed for current and future E/E architectures.

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FDM 4 with Blind Spot Assist: Additional display of a vehicle in the blind spot directly in the digital mirror view

Full Display Mirror (FDM) 4 – The Next Generation of Digital Mirror Technology

Gentex Corporation
Hall 3 | Stand 3320

PRODUCTS TO WATCH BY Automobilwoche A CRAIN FAMILY BRAND izb

The Gentex Full Display Mirror 4 (FDM 4, see image) transforms the rearview mirror into a smart digital display. Thanks to a high-resolution 8-megapixel camera, an improved HD display, and new software, the rearview image dynamically adapts to the driving situation for the first time. Based on additional image information (“hidden pixels”), the system continuously optimizes the displayed image section. “Dynamic View Assist” zooms in or moves the image without moving the camera. This provides more surrounding information during parking maneuvers and in city traffic, while on country roads and highways, the areas relevant for lane guidance and lane changes are prioritized. The FDM 4 thus represents the next evolutionary step in smart vision systems.

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Electrochromic panoramic roof: The intelligent dimming technology regulates the amount of light and heat entering the vehicle

Dimmable Roof and Window Systems for Smart Lighting Control

Gentex Corporation
Hall 3 | Stand 3320

Gentex’s electrochromic glass technology (see image) enables intelligent, multi-stage control of light transmission and heat gain through roof and window systems. Transparency can be flexibly adjusted from clear to heavily dimmed. This improves comfort, glare protection, and interior climate. By actively reducing solar radiation, cooling requirements are lowered, which increases energy efficiency and range – particularly in electric vehicles. This innovation opens up new possibilities for modern vehicle designs featuring large glass surfaces and light-filled interiors, without compromising on comfort or functionality. Thanks to its easy integration into current and future vehicle architectures, this scalable solution is suitable for various segments and offers OEMs clear opportunities for differentiation.

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Dimmable sun visors effectively reduce glare without affecting visibility of the surroundings and traffic conditions

Dimmable Sun Visors – Smart Glare Protection for Enhanced Comfort and Safety

Gentex Corporation
Hall 3 | Stand 3320

Gentex's dimmable sun visors (see image) offer an innovative alternative to conventional sun visors. Using proven electrochromic technology, they specifically reduce distracting glare from the low-angle sun or reflections without restricting the driver's field of view. The adaptive, multi-stage dimming system can be flexibly adjusted to varying light conditions, thereby improving visibility, comfort, and driving safety. At the touch of a button, the sun visor can also be switched to a full-surface vanity mirror, offering additional value to vehicle occupants. Thanks to its slim design, the technology complements modern vehicle designs and can be seamlessly integrated into both existing and future vehicle platforms.

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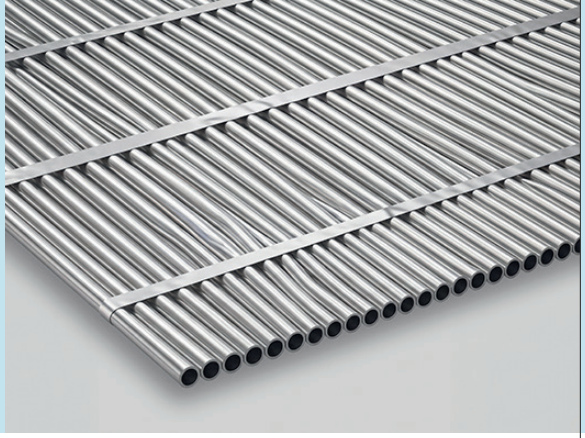
G-Weld™ delivers high-quality welding with semi-visible joints and flat finishes, eliminating weld marks (lower surface)

New semi visible joining solution: the future of the automobile structures

Gestamp
Hall 5 | Stand 5220

Gestamp has developed G-Weld™, a joining technology for automotive body structures. The process enables precise, high-speed welding with semi-concealed joints and flat surface finishes, reducing visible weld marks while maintaining structural integrity. G-Weld™ supports the joining of complex geometries and different material combinations, enabling the integration of components into modern vehicle structures. The technology also provides manufacturing flexibility and can contribute to improved quality and productivity in the production of complex automotive body components.

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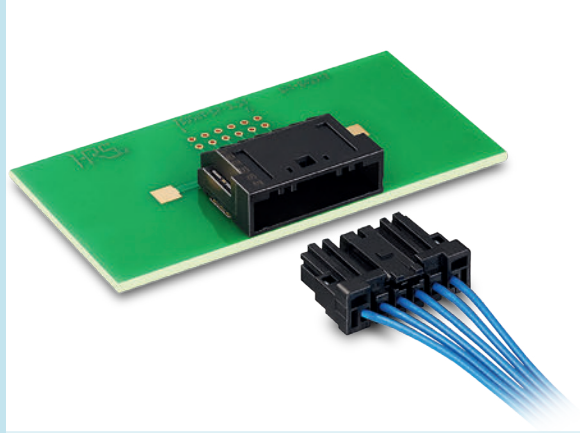
The flexible GKD thermal interface mat ensures reliable heat transfer

Serviceable and recyclable thermal interface mat for efficient thermal management

GKD – Gebr. Kufferath AG
Hall 2 | Stand 2204

As electrification advances, efficient thermal management is becoming critical. GKD has developed a flexible thermal interface mat (see image) combining reliable heat transfer, high adaptability and full recyclability. With a thermal conductivity of up to 3 W/(m·K), the mat efficiently transfers heat between stressed components and cooling systems, compensating for tolerances and ensuring reliable thermal contact. A key advantage is serviceability: unlike thermal pastes or gels, this dry, flexible mat can be removed and replaced during maintenance without elaborate cleaning. It is also fully recyclable, supporting resource-efficient material use and improved repairability. Applications include DC/DC converters, onboard chargers, ECUs, sensor modules and LED systems. Customisable geometry, thickness and thermal properties make it a scalable platform from development to series production.

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High-Voltage, 125 °C Heat Resistance, Wire-to-Board Connector

ZG05HV Series: High-Voltage, 125°C Heat Resistance, Wire-to-Board Connector for Automotive

Hirose Electric Europe
Hall 3 | Stand 3415

With patented innovative terminal design and housing materials, the ZG05HV series is suitable and reliable in harsh functional environments. It can withstand operating temperatures -40 to +125 °C, which satisfies severe automotive requirements that allow the connector to be placed near engine compartments. The ZG05HV consists of a double-layered spring which has a 3-point contact design that increases contact engagement and ensures stability in the contact area to withstand high vibration conditions.

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Innerio's high-performance thermal management systems with wall thicknesses of just 0.1 to 0.2 mm

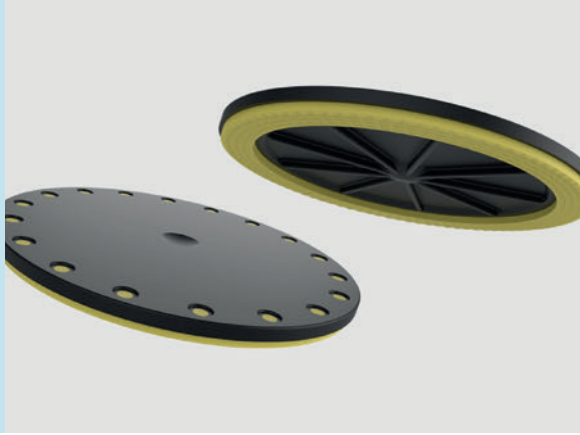
Innovative “Plug & Play” Module Structure for Scalable Thermal Management Solutions

Innerio Group
Hall 3 | Stand 3224

PRODUCTS TO WATCH BY Automobilwoche A CRAIN FAMILY BRAND izb

Thermal management technologies are crucial for modern vehicles—optimizing EV range, engine longevity, and autonomous driving electronics. At the IZB (Hall 3, Booth 3224), Innerio Group is showcasing its fully integrated development process for mixed vehicle platforms, covering internal combustion, hybrid, and all-electric powertrains (see image). A "plug-and-play" module structure allows over 150 module variants using just 18 components. Through "Full Stack Simulation" and Innerio's architecture, component variants are reduced while integration increases, significantly accelerating validation and series production scaling. New manufacturing processes have also increased Overall Equipment Effectiveness (OEE) to an impressive 90 to 92 %.

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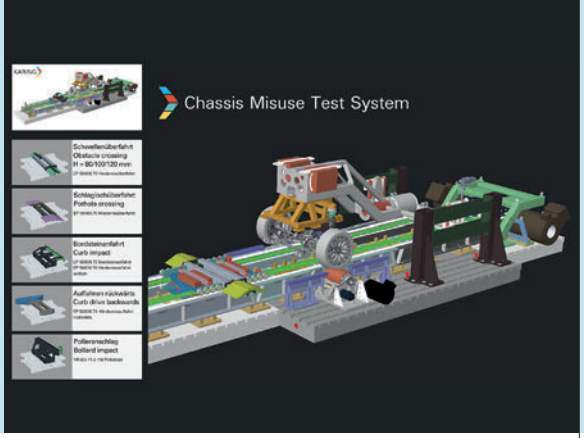
ITW Automotive's Ultrasonic Disc delivers enhanced flexibility and process stability

Ultrasonic Disc: Ultrasonic welding technology for automated plug assembly

ITW Automotive - Global Fasteners
Hall 1 | Stand 1423

ITW Global Fasteners presents the Ultrasonic Disc, a hole-sealing solution developed for automated, high-speed assembly processes. Combining ultrasonic welding with a dedicated disc design, it enables reliable hole closure in less than one second while achieving high pull-out forces. Its ultra-flat profile (<2 mm) allows installation in space-constrained applications without requiring B-side installation space. The welding process creates a reliable seal that protects against water, moisture, and other environmental influences. High tolerance to contaminants such as wax, oil, hand cream, and fingerprints ensures robust performance and process flexibility across multiple vehicle production stages.

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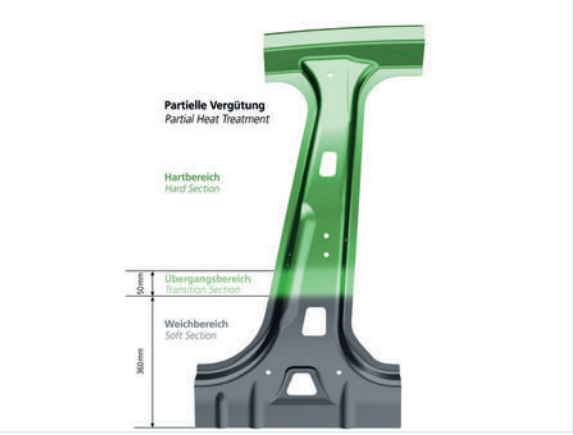
KARING has developed an innovative test bench for chassis misuse testing featuring various obstacles.

Electric Chassis Misuse Test System (FAMI) with AI-supported data analysis

KARING GMBH
Hall 2 | Stand 2602

The test bench (see image) is an innovative, electrically powered chassis misuse test system featuring energy storage and AI-supported data analysis. At its heart is a sled test system capable of generating high forces and speeds for EP 50000/EP 54000 test procedures. Synchronised measurement technology ensures that all sensor and measurement data are recorded with precise timing, whilst AI-supported data analysis evaluates the results in real time. The test bench simulates extreme load scenarios on chassis components, such as driving over obstacles, through potholes and onto curbs, and provides immediate feedback on the behaviour of the test specimen. With low energy consumption, high flexibility regarding various test parameters (speed, shape, dimensions, weight, etc.) and a small footprint, the system reliably tests chassis components to their limits under controlled laboratory conditions.

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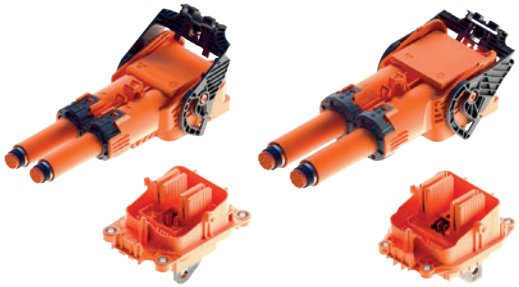
SIBORA Next Step: Load-optimized B-pillar with locally tailored properties and optimal corrosion protection

Modular surface design for optimal corrosion protection and efficient lightweight

KIRCHHOFF Automotive Deutschland GmbH
Hall 5 | Stand 5118

From uncoated SIBORA material to a modular surface concept: In the first step, KIRCHHOFF Automotive and Volkswagen Group Innovation successfully completed the material and process development of a silicon-boron steel grade called “SIBORA” for a modified hot-forming process in 2024 (see image). SIBORA enhances crash safety through improved energy absorption while simultaneously reducing body mass. In the second step, corrosion protection for the SIBORA material is now being significantly improved through a targeted application of galvanized or AlSi coated surfaces, without compromising its high strength. The modular surface concept enables load-optimized components with locally tailored properties. This approach optimally combines material performance, process reliability, and lightweight construction, opening up new possibilities for durable, high-strength vehicle structures.

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New High-Voltage Connectors KS 16.5 and KS 21

Compact High-Voltage Connectors with KOSTAL VibraVault and Optional Temperature Sensor

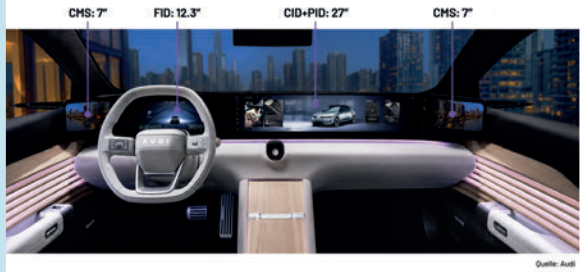
KOSTAL Kontakt Systeme GmbH & Co. KG
Hall 3 | Stand 3302

PRODUCTS TO WATCH BY Automobilwoche A CRAIN FAMILY BRAND izb

KOSTAL Kontakt Systeme is expanding its high-voltage portfolio with the KS 21 and KS 16.5 connector systems. The KS 21 is designed for copper and aluminum cables with cross-sections of 50 to 95 mm² and currents of up to 400 A at 85 °C, while the KS 16.5 covers cross-sections of 16 to 50 mm². The product family is suitable for electric powertrains and other high-voltage applications and combines numerous innovations:

- Higher vibration stability and robustness through the newly developed KOSTAL VibraVault
- Robust wire harness processing and protection of the spring/lamella system through the switched terminal design
- Capability for automated processing for efficient industrial processes
- Improved ergonomics through the Overhead Mounting Solution
- Repair Solution for easy and safe replacement in the event of servicing
- Easy to integrate temperature sensor, enabling more precise design of the high-voltage system and thus helping to save weight and costs

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High-End Immersive P2P Ultra-Wide Landscape Display by Krämer Automotive Systems

Highend Immersive - P2P - Ultra-Wide Landscape Display

Krämer Automotive Systems GmbH
Hall 6 | Stand 6536

PRODUCTS TO WATCH BY Automobilwoche A CRAIN FAMILY BRAND izb

Krämer Automotive Systems GmbH's intelligent cockpit display system combines a 12.3-inch full-LCD instrument cluster with a 27-inch ultra-wide landscape central display. The integrated, seamless display layout creates a continuous digital cockpit environment and supports the intuitive presentation of driving information, infotainment, and vehicle functions.

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Compact display integrated drive-by-wire cockpit for seamless autonomous driving & manual vehicle control

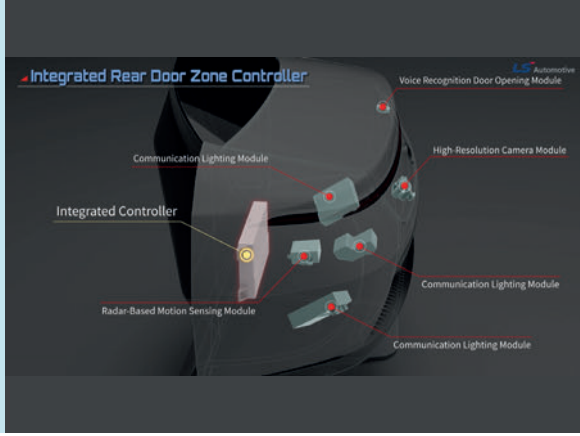
Display-Integrated Drive-by-Wire Cockpit

LS Automotive Technologies
Hall 2 | Stand 2405

PRODUCTS TO WATCH BY Automobilwoche A CRAIN FAMILY BRAND izb

LS Automotive's Display-Integrated Drive-by-Wire Cockpit (see image) is an innovative human-machine interface that combines steering, acceleration, braking, and display functions into a single intelligent control system. Designed for future mobility and autonomous driving, it enables seamless transitions between autonomous and manual driving modes while maximizing cabin space and enhancing user interaction. During autonomous operation, the integrated display provides immersive infotainment and vehicle information, while manual mode delivers driving control through a compact steer-by-wire interface. The modular architecture supports flexible cockpit configurations.

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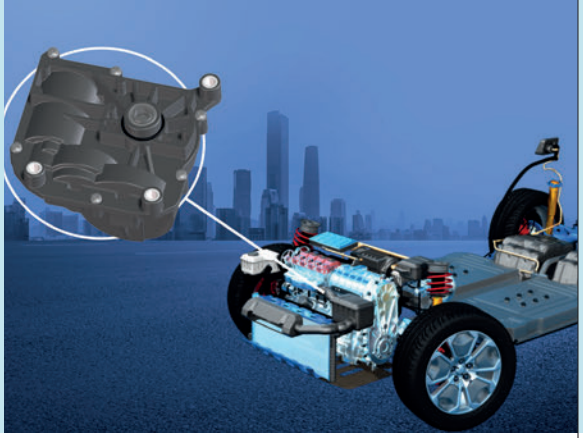
Rear Door Zone Controller designed for next generation SDV with integrated sensing, lighting & access control

Rear Door Zone Controller

LS Automotive Technologies
Hall 2 | Stand 2405

LS Automotive's Rear Door Zone Controller (see image) is an integrated smart rear access platform designed for next-generation SDVs. A single controller seamlessly integrates power tailgate actuation, radar sensing, communication lighting, a high-resolution rear camera, and voice recognition to deliver a safer and more intuitive user experience. The system enables hands-free trunk opening, voice-controlled operation, visual communication with pedestrians and surrounding vehicles, and enhanced rear visibility. By consolidating multiple rear-end functions into a single intelligent architecture, it reduces system complexity while improving safety, convenience, and scalability across global OEM vehicle platforms.

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One Housing – Multiple Possibilities:
THE SMART ACTUATOR

SMART-ACTUATOR: Modular Actuator System for Automotive Drivetrain Applications

MAGNET-SCHULTZ GmbH & Co. KG
Hall 3 | Stand 3424B

The SMART-ACTUATOR from MAGNET-SCHULTZ is a modular, configurable system for positioning and switching applications in the drivetrains of modern passenger cars and commercial vehicles. Applications include parking lock actuation, transmission control, thermal management valve actuation, and engine management functions. Depending on the gear configuration, the system provides torque of up to 6 Nm. Its modular housing design supports either bevel gear or self-locking worm gear stages. Mechanical and electrical overload protection supports robust and reliable operation. The output shaft can be configured as a solid or hollow shaft to meet application-specific requirements. A flexible connector concept allows different types and positions of electrical interfaces. The standard version is designed for rotary motion and can be extended for linear applications through additional modules.

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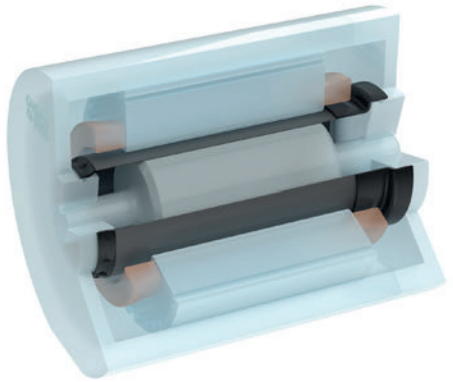
Premium Windshield Display with outstanding image quality, scalability, and packaging flexibility

Holographic Windshield Display

MOBIS
Halle 6 | Stand 6214

At the IZB 2026 MOBIS is presenting a premium Windshield Display with outstanding image quality, scalability, and packaging flexibility. Holographic Windshield Display (HWD, see image) redefines the windshield as the next-generation display platform, transforming a conventional glass surface into a seamless visual interface. Leveraging holographic optical technology, HWD delivers outstanding image quality, scalable display experiences, and unprecedented packaging flexibility, enabling cleaner cockpit architectures and greater design freedom. By expanding digital experiences beyond traditional displays, HWD creates new opportunities for immersive user interaction and future mobility services in connected and autonomous vehicles.

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Direct stator cooling made possible by a hybrid thermoplastic-composite assembly, enabling efficient thermal management.

Stator cooling sleeve for high energy density E-Motors

MoldTecs
Hall 1 | Stand 1216

The stator sleeve (see image) is designed to enable direct and efficient cooling of the stator, reducing thermal barriers between the heat-generating components and the cooling system. Combined with the expertise in precision plastic design and high-volume manufacturing, it provides a lightweight, integrated solution supporting enhanced thermal management, higher continuous power and increased power density. Main features: 360 degrees cooling interface enables more uniform temperature distribution around the stator, the lightweight plastic design reduces component weight compared with conventional metallic solutions. Electrical insulation: Plastic material can provide inherent electrical insulation around the stator. Design flexibility: Complex geometries can be integrated to optimize cooling channels, interfaces and assembly. Compact design: 0.45 wall thickness thanks to composite material.

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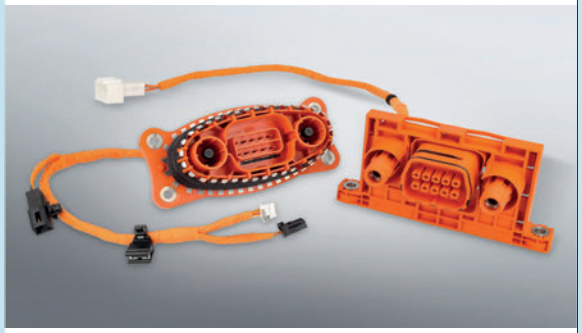
One-piece HPDC aluminum subframe. Combines lightweighting with cost efficiency.

Lightweight HPDC Subframe for Volume Cars

Nemak Europe GmbH
Hall 5 | Stand 5122

The development of vehicle components requires an optimal balance of cost, weight, and performance. Nemak addresses this challenge with a one-piece aluminum HPDC subframe (see image) that combines lightweight design and cost efficiency for high-volume vehicle applications. To demonstrate technical feasibility, a rear subframe was developed to meet stiffness, strength, and crash requirements. The design replaces around 30 steel components, reduces weight by 25 %, and improves NVH performance. Component quality is ensured through simulation of casting processes and material properties. Advanced structural optimization enables high weight-specific performance, while locally hollow sections offer additional potential. Following successful prototype manufacturing, further development toward series production will be pursued together with customers.

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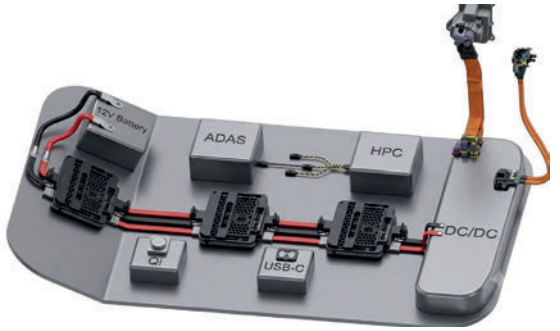
ODU DOCKING MATE®: The contact system compensates for tolerances of up to ± 3 mm.

Tolerance compensation contact systems

ODU Automotive GmbH
Hall 3 | Stand 3307

When connecting fixed conductor rails, positional deviations occur due to manufacturing tolerances or thermal expansion. With ODU DOCKING MATE® (see image) there finally is a pluggable alternative to screws. ODU DOCKING MATE® is a modular system of tolerance compensation contact systems that can be used specifically for the respective applications. The choice of system is determined by the offset to be compensated for between the two connections to be connected, the required performance and the installation space conditions. Fixed connection ends can be found in various areas in and on the vehicle. Production-related tolerances or thermal expansion should not be neglected. Connections between the so-called hairpin stator, as used in modern drives, and the inverter can now be made pluggable. The range of solutions is also ideal for modular battery packs and the power electronics mounted on them.

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Advanced Power Distribution Architecture with direct plug-in e-fuse modules on rigid aluminum busbars

Advanced Power Distribution Architecture

One Mobility GmbH
Hall 3 | Stand 3209

PRODUCTS TO WATCH BY Automobilwoche izb

Future computing architectures require more and more energy. However, larger cable cross-sections increase the weight massively and are difficult to route. The Advanced Power Distribution Architecture (see image) of One Mobility addresses exactly this challenge. The manufacturer implements a zonal power distribution using smart e-fuse modules and a rigid energy backbone. This drastically reduces the total length of cables inside the vehicle. Additionally are replaced heavy copper wires with lightweight aluminum busbars. The innovation lies in the direct, tool-free pluggability of the e-fuse modules onto the backbone. This plug-and-play interface eliminates time-consuming bolting processes in OEM assembly. The dimensionally stable aluminum busbars ensure automated handling. This enables OEMs to implement a fully automated robot assembly and drastically reduces factory costs.

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Volvo XC90 demonstration vehicle with Pioneer's Integrated Sound Platform and Green Speakers with KCS

Green Speakers with KCS in Pioneer's Integrated Sound Platform

Pioneer Europe NV
Hall 3 | Stand 3213

Pioneer presents its scalable Integrated Sound Platform (ISP) in the Volvo XC90 (see image) for different vehicle segments, trim levels and listening configurations. A key innovation is its Green Speakers: lightweight, compact loudspeakers whose hardware is specifically designed for Klippel Controlled Sound (KCS), an adaptive loudspeaker control technology. This extends the usable frequency and performance range while reducing weight, installation space and bill of materials. Applications include low-frequency reproduction down to 35 Hz without a separate subwoofer or large woofers, ANC/RNC without dedicated low-frequency transducers, compact low-frequency headrest modules, and new approaches to sound zoning. Visitors can experience front-seat and all-seat tuning, systems with and without a subwoofer, headrest audio, Dolby Atmos, and set-ups ranging from 10 to 26 speakers.

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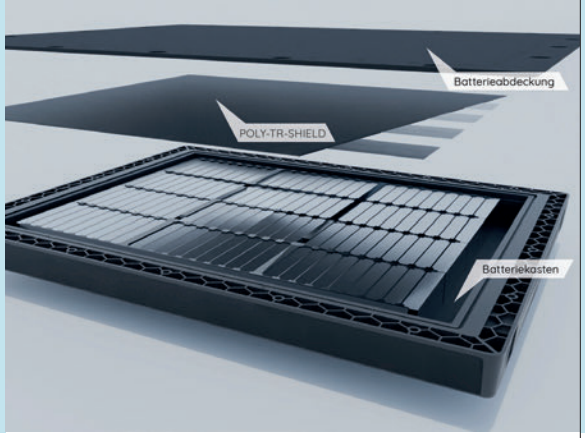
PlockControl connects production data into a digital twin, enabling AI-driven insights across manufacturing

PlockControl - Digital Twins for High Volume Manufacturing

PlockControl
Hall 5 | Stand 5236

PlockControl connects production data to create a digital twin for every single component, providing complete transparency across the entire value chain. With PlockMetamorphosis, data from different machines, production lines, and IT systems is intelligently integrated and harmonized. The Plock AI Agent analyzes this data in real time, answers questions in natural language, and supports root cause analysis as well as quality and process optimization. Automotive suppliers benefit from end-to-end traceability, faster response times to quality deviations, data-driven decision-making, and increased process efficiency. The result is reduced scrap, optimized resource utilization, and reliable compliance with the requirements of modern, data-driven manufacturing.

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Battery design with integrated protection against thermal runaway using POLY-TR-SHIELD

POLY-TR-SHIELD: Sustainable innovation for improved battery safety in underrun protection

POLYTEC GROUP
Hall 4 | Stand 4316

With POLY-TR-SHIELD, POLYTEC is making electric vehicles safer and more sustainable. This innovative protective solution is integrated directly into the underrun protection and safeguards the vehicle battery in the event of thermal runaway. At the same time, the newly developed thermoplastic composite replaces the critical and controversial mineral mica. The composite sandwich (see image) structure offers impressive high-temperature resistance, excellent insulation and protective properties, as well as high impact and corrosion resistance. Furthermore, POLY-TR-SHIELD reduces weight and the carbon footprint. The development thus combines three key requirements of electric mobility: greater safety, lower resource consumption and sustainable lightweight construction.

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QNX Cabin: Cloud-first digital cockpit reference solution

Pre-integrated, cloud-first digital cockpit reference solution

QNX Software Systems GmbH
Hall 6 | Stand 6107

QNX Cabin (see image) is a cloud-first digital cockpit development platform that enables OEMs and Tier 1s to design, simulate, integrate, and deploy advanced cockpit experiences across cloud and vehicle hardware. Built on proven QNX technologies and open-standard VirtIO interfaces, it supports QNX, Linux, and Android Automotive operating systems while providing shared frameworks for graphics, audio, sensors, and vehicle signals. QNX Cabin reduces integration complexity, project cost and risks, accelerates development, and helps teams move seamlessly from virtual development environments to production vehicle platforms.

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QNX Sound: The Complete Digital Audio Platform for Software-Defined Vehicles

QNX Sound: Create and control every sound in your software-defined vehicle

QNX Software Systems GmbH
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QNX Sound is an audio platform for software-defined vehicles, proven in production on the new Volvo EX60 enabling trim-level-specific audio from global brands Bose and Bowers & Wilkins. QNX Sound decouples audio software from hardware and unifies media, voice, ADAS alerts, sound generation, and noise control. By consolidating multiple audio trim levels into a single software stack on the main SoC, it can save OEMs $20-$100 USD per vehicle. As vehicle architectures centralize, QNX Sound makes the soundscape software-defined, accelerating development, tuning, and reuse. Open standards such as VirtIO enable portability across SoCs and models. Running in the cloud alongside QNX Hypervisor and QNX Cabin, QNX Sound streamlines validation, reduces integration complexity, accelerates time to market, and enables immersive experiences that continuously improve through software updates.

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Alloy Kore: Pre-integrated foundation for SDV software

Alloy Kore: Pre-integrated foundation for SDV software

QNX Software Systems GmbH
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PRODUCTS TO WATCH BY Automobilwoche A CRAIN FAMILY BRAND izb

Alloy Kore is an automotive OS platform (see image), co-developed by QNX and Vector, that combines a proven real-time operating system with a pre-integrated set of common automotive system services (communication, diagnostics, configuration, orchestration, safety, and security) into a single automotive software foundation for modern vehicle architectures. It consolidates the essential services every modern vehicle compute platform requires through a common API set. Alloy Kore is designed to support OEM vehicle operating systems and industry frameworks providing the safety and security certified automotive OS foundation on which they run. It gives OEMs the flexibility to build the ecosystem they choose on a foundation they can trust.

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QNX Everywhere: Open. Free. Commercial-Grade.

Empowering Developers. Driving Innovation. Everywhere.

QNX Software Systems GmbH
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QNX Everywhere provides free access to the QNX Software Development Platform 8.0 and QNX Hypervisor 8.0 for non-commercial use, letting the developer community learn, experiment and build with the same tools used in safety-critical sectors. The initiative tackles the growing global shortage of skilled embedded engineers, as the shift to software-defined architectures outpaces the supply of talent able to build safe, reliable, real-time systems. It also accelerates R&D by making it easier for OEM teams to explore leading-edge trends like Physical AI on a production-ready platform. Alongside this, QNX has launched free online training for all experience levels. In and out of the classroom, QNX is driving global embedded software evangelism — supporting hackathons, guest lectures and partnering with 100+ academic institutions to nurture a vibrant developer ecosystem.

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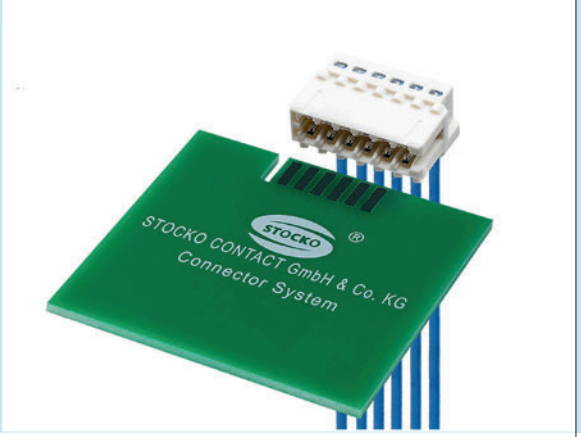
Crimping machine with CrimpWise

Innovative Crimp Force Monitoring System CrimpWise for modern Cable Production

Schäfer Werkzeug- und Sondermaschinenbau GmbH
Hall 1 | Stand 1007

For quality assurance in cable production, CrimpWise offers reliable crimp force monitoring (see image) – integrated into Schäfer crimping machines or available as an external module for presses from other manufacturers. During the crimping process, the measured force is compared with a taught-in reference curve to detect issues such as missing strands or residual insulation in the crimp connection. The intuitive, browser-based software allows for easy configuration, operation via multiple networked devices, and integration into the customer's network – ideal for centralized quality management. Key benefits: - Zone-based monitoring (time- or position-based) - Flexibly adjustable configurations - Browser-based interface with multi-user access - OPC UA connectivity for full traceability - Simple software updates - Ready for AI-based analysis.

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Connector system ECO-TRONIC CR

Connector system for high vibration requirements

STOCKO CONTACT GmbH & Co. KG
Hall 6 | Stand 6422

With ECO-TRONIC CR (see image) it concerns a connector system which is suitable for classical FR4 PCB. The demands of different areas of application, in particular of the automobile industry, were considered by the constructive design. Based on its design, the connector system is suitable for high vibration requirements. By the performance profile this series is suited particularly for uses in the areas of LED lighting and display contacting. For uses like the contacting of sensors and actuators, it is suited too. The contact design guarantees a stable mechanically and electrically connection between contact and conductor with 0.22 mm² and 0.35 mm². Displace security by polarisation elements and mechanical barriers against damage of contacts by disoriented mating ensures the quality of the connection in the use and in the application.

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Advantages of the automotive infrared perception system

Infrared Perception for Reliable Sensing in Rain, Fog, Smoke, and Darkness

SYLUX
Hall 3 | Stand 3213

SYLUX advances vehicle safety with an automotive infrared perception system powered by proprietary CDAT™ AI software. Unlike visible-light cameras that can struggle at night and in rain, fog, smoke, snow, or headlamp glare, SYLUX senses thermal energy to maintain awareness in challenging conditions. The compact automotive-grade infrared camera operates at 30 fps with detection ranges up to 300 meters. CDAT™, Classification, Distance, Action, and Tracking, provides real-time detection, classification, tracking, distance estimation, and collision prediction for pedestrians, cyclists, motorcyclists, animals, vehicles, and other roadway hazards. Designed for scalable integration into grilles, windshields, headlamps, and rear applications, SYLUX strengthens ADAS sensor redundancy, enabling earlier hazard recognition and more time for vehicle safety systems to respond when visibility is poor.

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Narrow Seal Automation: A robot applies the 2 mm adhesive tape fully automatically – immediately load-bearing and selectively remo

Borderless premium design meets circular economy – automated and selectively removable

tesa SE
Hall 6 | Stand 6204

With Narrow Seal Automation, tesa SE is developing an automated adhesive solution for the assembly of vehicle displays together with AUMOVIO. A robot-applied 2 mm adhesive tape provides immediate handling strength without curing time and can be integrated into existing production lines. With “Debonding on Demand”, the bond can be selectively released, supporting rework and repair as well as material separation at the end of the product life cycle. The solution enables narrow adhesive borders and near-borderless display designs. It can also help reduce scrap and the effort required for rework and repair. Series production readiness is planned for Q4 2026.

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“The Brick” – compact 3.7 kW charger for electric vehicles and hybrids with five charging current levels, start delay, and IP44

“The Brick” – compact charger replaces a separate Mode 2 charging cable

Wentronic Solutions GmbH
Hall 6 | Stand 6202

PRODUCTS TO WATCH BY Automobilwoche izb

As a proprietary development by Wentronic Solutions, the Mode 2 charging adapter “The Brick” (see image) enables AC charging of BEVs and PHEVs with up to 3.7 kW directly from standard household sockets (Schuko) using the vehicle's Mode 3 cable. The control unit offers adjustable charging current levels (6, 8, 10, 13, 16 A) as well as a programmable start delay from 0.5 to 8 h in 30-minute increments for PV and grid optimization. An automatic Power-On Self-Test (POST) checks the system before every charging process, while protective earth (PE), relays, current, and grid voltage are continuously monitored. The integrated AC/DC residual current detection reliably protects upstream Type A RCDs from blinding caused by DC fault currents. In the event of thermal overload, sensors in the plug and housing trigger power derating or a safety shutdown. The system meets the IP44 protection rating.

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"Power-Socket" – compact Vehicle-to-Load interface with automatic activation & an output power of up to 3.7 kW

Mobile energy from the EV – automatically available as soon as a load is plugged in

Wentronic Solutions GmbH
Hall 6 | Stand 6202

The V2L interface "Power-Socket" (see image)) enables power extraction from the traction battery for external AC loads with an output power of up to 3.7 kW at 230 V and 16 A. Via integrated resistor coding, the system communicates the required power demand to the vehicle, which controls the primary power electronics and conversion. Automatic load detection activates power delivery upon contact closure without additional switching elements and signals active operation via an integrated LED indicator. Thanks to the reduced component complexity, the compact device forms a mechanically and electrically robust interface between the vehicle and the external load. An integrated thermal switch ensures overtemperature protection via automatic disconnection. The system is designed for an operating temperature range of -40 degrees Celsius to +80 degrees Celsius.

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More information on IZB 2026: