iVT EXPO

OFF-HIGHWAY VEHICLE TECHNOLOGY

AUGUST 19 & 20, 2026
CHICAGO, ILLINOIS, USA

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SHOW LAYOUT P.22

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WELCOME TO iVT OFF-HIGHWAY VEHICLE TECHNOLOGY EXPO 2026!

On behalf of the entire team, welcome to iVT Off-Highway Vehicle Technology Expo and Conference 2026 – the industry's premier platform for showcasing the next generation of off-highway vehicle technology. We are delighted to have you join us in Chicago for two action-packed days of innovation, collaboration and discovery.

This year's expo features a dynamic line-up of exhibitors from across the globe, all presenting the cutting-edge components, materials and technologies driving the evolution of off-highway machinery. Whether you're here to explore advances in electrification, autonomy, hydraulics, powertrains, or smart control systems, the show offers unparalleled access to the ideas and solutions shaping the future.

New for 2026: both the Off-Highway Evolution Conference and NFPA Advanced Hydraulics Conference are included in your visitor pass!

Head over to the conference rooms throughout Days 1 and 2 to gain insights from top industry experts. The Off-Highway Evolution Conference is exploring the engineering required to solve the technical challenges of autonomy; the economic realities of the total cost of ownership (TCO); the operational challenges of propulsion; complexity in UX/in-cabin management; and the critical role of data-driven intelligence in optimizing performance across a diverse and increasingly complex fleet of vehicle requirements.

The Advanced Hydraulics Conference, hosted by the National Fluid Power Association, runs alongside the Off-Highway Evolution Conference and explores the technologies shaping the future of fluid power and off-highway machinery. Expert-led sessions examine AI-enabled services, connected hydraulics, cybersecurity and more, offering valuable insights into improving productivity, reliability and operational efficiency.

Make the most of your time here by networking with peers, attending conference and iVT Live Zone sessions and discovering the latest products on the show floor. Be sure to download the official event app to plan your schedule, connect with exhibitors and book meetings in advance, and don't miss the Day 1 drinks reception!

Thank you for being part of iVT Off-Highway Vehicle Technology Expo 2026. We hope you leave inspired, informed and ready to take your business into the future.

Enjoy the show!

The iVT Off-Highway Vehicle Technology Expo team

Richard de Courcy, sales manager, iVT Expo

Ram Seira, event director, iVT Expo

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USEFUL INFORMATION

VENUE ADDRESS:

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BOOK YOUR BOOTH FOR 2027!

Visit the expo sales team on **Booth 400** to book your exhibition space for 2027

Richard de Courcy, exhibition sales manager
Email: richard.decourcy@ukimediaevents.com

Ram Seira, show director
Email: ram.seira@ukimediaevents.com

OPENING HOURS

WEDNESDAY, AUGUST 19

EXPO:
9:00am – 6:00pm
DRINKS RECEPTION:
4:00pm onward
CONFERENCE:
9:00am – 5:00pm

THURSDAY, AUGUST 20

EXPO:
9:00am – 4:00pm
CONFERENCE:
9:00am – 4:00pm

FOOD VENDORS

Taco, BBQ and Pita Concept

Food and beverages are available for exhibitors and visitors at the food court areas to the rear of Hall F

DRINKS RECEPTION

Day 1, from 4:00pm
Free to attend at the food court area **to rear of Hall F**

ACCESSIBILITY

All areas are accessible for wheelchairs

FREE WI-FI

Network name:
BOINGO HOTSPOT

SOCIAL MEDIA

Please mention iVT Expo and use the event hashtag, and we'll be sure to like and share!

ORGANIZER'S OFFICE

If you require assistance in finding your way around the exhibition, the organizer's office is located inside Hall F, to the left of the main entrance

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A

Accurate Technologies Inc.
Booth: 200

www.accuratetechnologies.com

Accurate Technologies (ATI) develops software, hardware and engineering solutions for measurement, calibration, diagnostics, data acquisition and vehicle network analysis. Trusted by OEMs and suppliers worldwide, ATI helps engineers develop, test and optimize advanced control systems with innovative tools that improve productivity, efficiency and engineering confidence.

Advanced Cylinders, LLC
Booth: 210

www.advancedcylindersllc.com

Advanced Cylinders is an innovative and progressively growing supplier of detailed engineered cylinder solutions and manufacturer of a standard range of hydraulic cylinders for many industrial applications. The company engineers many unique fluid power cylinders for very demanding applications over a wide range of markets and industries.

AdvanTech International
Booth: 955

www.advantechinternational.com

AdvanTech International was established in 1951 as a specialized international trading company and has evolved into a global sales and market development organization. Driving product leadership, AdvanTech partners with global leading manufacturers to deliver engineered product solutions through strategically located operations.

Aeration Measurement Technologies LLC
Booth: D1

amtechllc.com

An engineering consulting firm specializing in mobile hydraulics system design, AMTech utilizes a novel system to measure the level of entrained air in the hydraulic oil in real time. These services bring engineers and designers critical data for comprehensive reservoir performance validation not available anywhere else.

Ainstein
Booth: 350

ainstein.ai

Ainstein delivers advanced mmWave radar sensing solutions that improve safety and autonomy in automotive applications. The company's radar hardware and software enable reliable object detection, tracking and situational awareness in all weather and lighting conditions, supporting ADAS, off-highway vehicles and next-generation autonomous systems where performance and robustness are critical.

AKG of America, Inc.
Booth: 255

akg-america.com

AKG Thermal Systems develops rugged, high-performance thermal management solutions for industrial vehicles. It partners with OEMs to deliver customized engine, hydraulic, battery and power electronics cooling systems that maximize performance, reliability and efficiency in the world's most demanding operating environments.

Amot Controls
Booth: 250

www.amot.com

Amot designs rugged control solutions engineered for the demanding conditions off-highway and mobile equipment face every day. The company's reliable actuators, valves and control systems perform in extreme heat, freezing temperatures, heavy vibration and harsh environments – helping OEMs and operators maximize equipment performance, reliability, safety and uptime worldwide. Contact Amot at sales.houston@amot.com.

Anfield Sensors Inc.
Booth: 1235

www.anfieldsensors.com

Anfield Sensors, based in Toronto, Canada, manufactures high-performance hydraulic and pneumatic sensors, including pressure, vacuum, differential and temperature switches and transducers. Serving industrial, mobile, food service, medical and military markets, Anfield delivers engineered solutions, expert application support and industry-leading innovation through its research-driven operations in Canada and the USA.

APEM
Booth: 935

www.apem.com/en-us

APEM is a global leader in professional HMI solutions, designing and manufacturing highly reliable joysticks, switches, keypads and integrated control panels for industrial and special vehicles. Engineered for harsh environments, the company's interfaces optimize operator safety, precision and vehicle performance.

Applied Engineered Systems
Booth: 815

www.appliedfluidpower.com

Whether you're designing next-generation mobile equipment, solving complex fluid power challenges, or pushing for higher efficiency and productivity, Applied Engineering Systems brings the expertise, resources and partnership approach required to keep your production flowing and your business moving forward. Visit the booth!

Aurelius Manufacturing
Booth: 105

www.aurelius-mfg.com

Aurelius Manufacturing designs and builds custom-welded hydraulic cylinders for heavy equipment and demanding mobile applications. The engineering team develops hydraulic solutions tailored to your machine, delivering precision, durability and performance where reliability matters most. Tested. Trusted. Delivered. Built to last.

Axiomatic Technologies Corporation
Booth: 1005

www.axiomatic.com

B

Bailey International, LLC
Booth: 805

www.baileyintl.com

Headquartered in Knoxville, Tennessee, Bailey is a leading manufacturer of hydraulic components and electronic control system components for companies across a wide range of industries. Bailey develops and produces hydraulic cylinders, hydraulic power units, hydraulic valves, electronic joysticks and other components.

Bonfiglioli USA, Inc.
Booth: 600
www.bonfiglioli.com

Bonfiglioli delivers innovative power transmission and drive solutions for demanding mobile applications. At the expo, Bonfiglioli North America will showcase advanced mobile and electromobility technologies, including wheel, track, slew and winch drives, plus hybrid and electric solutions that improve efficiency, reduce emissions and support faster time-to-market.

Bosch Rexroth
Booth: 520
www.bosch.us

Briggs & Stratton
Booth: 455
www.basco.com

Vanguard simplifies the shift to electrification with easily integrated power solutions. By flawlessly combining advanced batteries, motor controllers and electric motors, Vanguard delivers a complete, single-source full battery system. This frictionless ecosystem eliminates your integration challenges, accelerates your time-to-market and ensures your commercial equipment performs at its peak.

C

Calogy Solutions
Booth: 1000
www.calogysolutions.com

Calogy Solutions accelerates electrification through innovative thermal management technologies and high-performance battery systems. Based in Sherbrooke, Quebec, the company develops advanced solutions that enhance safety, reliability and efficiency in e-mobility, energy storage, aerospace and industrial applications. The company's proprietary Uni.T technology improves temperature control and reduces thermal runaway risks.

CAN in Automation (CIA) eV
Booth: D3
www.can.cia.org

CAN in Automation (CiA) is the international users and manufacturers group for CAN (Controller Area Network), established in 1992 and based in Nuremberg, Germany. CiA provides an unbiased platform for the further development and promotion of CAN technologies.

Canimex Group Inc.
Booth: 1000
www.groupecanimex.com/en

Canimex Mechanical & Electrical is a leading system integrator specializing in power transmission and electrification solutions for OEMs. The company provides drive axles, electric motors, controllers, batteries, gearboxes and mechanical components, supported by engineering, sourcing and logistics expertise. Canimex solutions serve agriculture, construction, industrial, marine and e-mobility markets.

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Booth: 910
www.caplugs.com

For over 75 years, Caplugs has been a worldwide leader in plastic molding. The product catalog highlights 50,000+ standard parts in stock and ready to ship. If a standard part doesn't meet your requirements, Caplug's experienced team of engineers will work with you to custom-design exactly what is needed.

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Booth: 535
www.cavotec.com

Cavotec is a leading engineering company that designs and delivers connection and electrification solutions to support the decarbonization of industrial applications and ports worldwide. With more than 50 years of experience, the company delivers integrated systems that improve safety, efficiency and sustainability across a wide range of industries.

Cervis, Inc.
Booth: 1030
cervisinc.com

Cervis is a wireless radio remote control manufacturing company serving thousands of clients across a wide range of industries. Every product the company designs, builds and sells is created with customers at the core. Cervis prioritizes safety and engineers radio systems that are built to perform in the toughest conditions.

Charged Electric Vehicles Magazine
Booth: 155
www.chargedevs.com

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Booth: 1250
www.cissoid.com

Cissoid delivers high-performance SiC motor control inverters and power semiconductor solutions for demanding e-mobility, industrial and high-power applications. Its portfolio combines motor control inverters, inverter control modules, reference designs, IPMs and power devices, backed by advanced packaging, proven reliability and certified software for compact, efficient and scalable electric drive systems.

Cojali USA Inc.
Booth: 1275
www.cojali.com

Cojali develops OEM solutions for off-highway vehicle manufacturers, including electronic control units, diagnostics, connectivity, telematics and engineering services. Cojali works with OEMs to improve vehicle performance, simplify maintenance, support product development and deliver reliable technology for today's connected and evolving equipment.

ComeSys Ltd
Booth: 1045
www.comesys.net

ComeSys is a Korea-based manufacturer specializing in operator control solutions for industrial, construction and agricultural vehicles. The company designs and produces robust joysticks, grips, pedals, switches and sensor-based modules. With strong in-house engineering and customized technologies like CAN communication, ComeSys delivers reliable, cost-effective solutions for global OEMs.

CoreM2M
Booth: 220
www.corem2m.io

CoreM2M accelerates industrial telematics deployment. As a leading hardware distributor, it provides open, production-ready Linux firmware that removes complex OS plumbing without vendor lock-in or forced subscriptions. The company's optimized runtime processes heavy-duty CANbus, J1939 and GPS data out of the box, delivering faster time-to-market and rock-solid edge performance.

Cross Company MSI
Booth: 415
www.crossco.com/mobile-systems-integration

Cross Company's Mobile Systems Integration division works with OEMs who manufacture on- and off-road machinery. The company's core competencies are hydraulic systems design and manufacturing, CANbus control system design and code development and machine electrification design and development.

Curtis Instruments
Booth: 620
www.parker.com

Curtis Instruments, recently acquired by Parker Hannifin, is a global leader in electric and hybrid industrial vehicle systems. With manufacturing and engineering centers across the world, Parker Curtis partners with OEMs to deliver localized expertise, innovative electrification solutions and customized architectures from concept through production for customers.

CVEP GmbH
Booth: 570
www.cvep.de/en

CVEP manufactures control systems, ECUs and subassemblies. With intelligent PCB solutions, HV boxes and PDUs utilizing press-fit technology, CVEP is a leading provider in the market. Innovative developments and own manufacturing allow individual customer requirements and even the most challenging projects to be implemented. CVEP also offers outstanding expertise in the field of e-mobility.

D

DavisNicols
Booth: D5
www.davisnicols.com

Hydraulic innovation shouldn't be limited by lengthy development cycles. Mako Hydraulics provides a modular development platform that enables teams to rapidly develop, prototype, validate and deploy production-ready hydraulic systems using configurable hardware, intelligent controls and proven circuit architectures.

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ddm hopt+schuler is a family-owned company with more than 50 years of experience in developing and manufacturing innovative human-machine interface solutions. From the headquarters in Rottweil, Germany, the company designs and produces high-quality switches, encoders, card readers and ticketing systems for a wide range of industries worldwide.

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Delta-Q Technologies
Booth: 720
www.delta-q.com

Delta-Q Technologies is charging the future and driving the world's transition into electric energy. The company collaboratively designs, tests and manufactures robust battery chargers that improve the performance of customers' off-highway electric drive vehicles and industrial machines.

Deltrol Fluid Products
Booth: 1015
www.deltrolfluid.com

Deltrol Fluid Products is a world-class manufacturer of hydraulic cartridge valves, custom manifold assemblies and in-line valves. Located just outside of Chicago, Illinois, for over 60 years Deltrol has carried a robust standard product line as well as maintaining the highest standards in new product design, development and time-to-market.

Deutronic Elektronik GmbH
Booth: 245
www.deutronic.com

Deutronic, an expert regarding the development and production of B2B power electronics, has a broad knowledge bundled in the logistics and transportation business units. A wide range of DC/DC and high-voltage DC/DC converters guarantees the perfect solution for every application. Added value instead of 'just selling products'.

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Booth: 180
www.dewetron.com

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DISTek Integration, Inc.
Booth: 1230
distek.com

driveblocks GmbH
Booth: D6
www.driveblocks.ai

driveblocks is a Munich-based software company offering autonomy and driver assistance software for off-road vehicles in agriculture, construction, mining and defense. The software enables reliable autonomous operation in complex, unstructured environments and integrates efficiently across vehicle platforms and sensor setups. Customers include Rheinmetall MAN Military Vehicles, Claas, Bomag and DAF.

DSE
Booth: 840
www.deepseaelectronics.com

DSE specializes in designing and manufacturing advanced programmable controllers and displays for off-highway vehicles and mobile machinery. It develops a leading range of hardware and software platforms that allow original equipment manufacturers and system integrators to create bespoke control systems that are powerful, robust and reliable.

dSPACE Inc.
Booth: 1265
www.dspaceinc.com

dSPACE is the worldwide leading provider of simulation and validation solutions for developing networked, autonomous and electrically powered vehicles. The company's end-to-end solutions are used in particular by automobile manufacturers and their suppliers to test the software and hardware components of their new vehicles long before a new model hits the market.

E

EAO Corporation
Booth: 1240
www.eao.com

EAO Corporation is a global leader in HMI components and systems, delivering solutions from pushbuttons to complete operator interfaces. Serving diverse industries, it combines global manufacturing and expert development. Its ISO 9001:2015 certification supports the design of complete user interfaces while ensuring quality, consistency and continuous improvement worldwide.

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info@flexitusa.com

Eckerle Technologies GmbH
Booth: 440
eckerle.com

Eckerle Technologies is a German manufacturer specializing in hydraulic gear pumps, hydraulic power units, climate technology components and electronic systems. Serving mobile machinery, off-highway vehicles and industrial applications worldwide, Eckerle combines decades of engineering expertise with innovative product development. Visit the booth to discover the latest solutions.

Electrified Automation Limited
Booth: 430
electrifiedautomation.com

Elemental Motors LLC
Booth: D2
www.elementalmotors.com

Elevāt IoT
Booth: 845
www.elevat-iot.com

Enertech International Inc.
Booth: 304
www.enertechint.com

Enertech International is a South Korean lithium-ion battery manufacturer offering pouch cells, modules and customized battery packs for industrial and off-highway vehicle applications. With in-house capabilities from electrode to pack assembly, Enertech delivers reliable, high-performance solutions tailored to customers' power, safety and space requirements.

Enovation Controls
Booth: 545
www.enovationcontrols.com

Epec Oy
Booth: 315
www.epec.fi

Epec Oy is a system supplier specializing in advanced electrics/electronics for efficient, safe and connected non-road mobile machines (NRMM) and commercial vehicles. Epec is a manufacturing company with extensive experience in control systems, customized products, electric/hybrid electric vehicle systems and assistance and autonomous systems.

Essentra Components
Booth: 1270
ww.essentraplc.com

Evonomy Group
Booth: 500
www.evonomy.com

Over 70+ off-highway OEMs leverage Evonomy Group's expertise in electrification, autonomous technologies, connectivity and software to help them rapidly conceptualize feasible next-generation architectures. Evonomy aggregates technical and commercial data from over 700+ suppliers and 35 major Tier 1s within a single unified source (the Evonomy Ecosystem).

EVR Motors
Booth: 500
www.evr-motors.com

Developing smaller and lighter electric motor technology has always meant less power – or additional costs. Until now. Based on the company's unique and patented Trapezoidal Stator topology, EVR's electric motor provides superior power and performance – and is less than half the size and weight of state-of-the-art RFPM motors.

F

Famic Technologies Inc.
Booth: 345
www.famictech.com

Famic Technologies develops engineering software for industrial and off-highway vehicle applications. Its flagship product, Automation Studio, supports design, simulation, validation and documentation of hydraulic, pneumatic, electrical, PLC, robotics, HMI and control systems; helping teams improve productivity, reduce errors and accelerate machine development. Booth contact: Bruno Dupuis, bdupuis@famictech.com or sales@famictech.com.

Fema Corporation of Michigan
Booth: 1215
fema-corp.com

Fema Corporation designs and manufactures electrohydraulic valves and manifolds for off-highway, agricultural, mining, military and automotive applications. ISO 9001 and IATF 16949 certified, Fema partners with leading OEMs to deliver custom hydraulic solutions engineered for performance, reliability and demanding field conditions in the toughest operating environments.

FlexIT USA
Booth: 1205
www.flexitusa.com

Fluid Systems Components
Booth: 1065
www.fscinc.com

FluiDyne Fluid Power
Booth: 212
www.fluidynefp.com

For 50 years, FluiDyne Fluid Power has supplied high-quality hydraulic pumps, motors and valves to the fluid power industry. With extensive inventory, fast turnaround, expert technical support and fully tested products, it delivers reliable hydraulic solutions you can count on. Visit the booth!

Force America
Booth: 300
www.forceamerica.com

Force America serves both on- and off-road vehicles with hydraulic power, control systems and industry knowledge. With an array of products and expertise, it is your single source for the power you need to do your work more efficiently and effectively.

FSG Sensors, Inc. – Fernsteuergeräte
Booth: 1120
www.fsg-sensors.de

For 80 years, FSG Fernsteuergeräte has been a leading innovative sensor manufacturer in Germany and worldwide. It has shaped angle, inclination, length and position sensing, delivering optimal solutions to customer challenges. The broad portfolio includes inclination sensors, cable pull encoders, industrial joysticks, foot pedals and wind sensors for diverse applications.

G

Gebrüder Frei GmbH & Co. KG
Booth: 635
www.frei.de/en

Exclusive solutions to meet individual requirements are Gebrüder Frei's speciality. Frei offers a comprehensive service when it comes to creating customer-specific solutions, providing support throughout the entire product lifecycle. Customers have good reason to trust in Frei's expertise in the development of mechanical components, electronics and software.

Gefran, Inc.
Booth: 185
www.gefran.com

Gemstar Manufacturing
Booth: 1125
www.gemstarmfg.com

Gemstar Manufacturing delivers technology-driven plastic solutions for OEM parts, fuel tanks, dashboards, enclosures and more. From solving complex design challenges and meeting rigorous testing standards to dependable production, Gemstar provides a premier customer experience. Capabilities include rotational molding, thermoforming and custom fabrication, plus in-house tooling, testing and engineering.

Gessmann Carolina, Inc.
Booth: 270
www.gessmann.com

Gessmann delivers precision-engineered industrial control solutions for OEM and automation applications. The portfolio includes joysticks, HMI systems, operator controls and customized control stations designed for performance, ergonomics and reliability. Built on German engineering expertise, Gessmann specializes in tailored solutions that integrate seamlessly into demanding industrial environments.

Grayson Thermal Systems
Booth: 1225
www.graysonts.com

Grayson Thermal Systems delivers advanced thermal management solutions for commercial vehicles and specialist equipment. From HVAC, battery cooling, complete integrated systems and various thermal components, it helps OEMs improve system performance, energy efficiency and reliability across diesel, electric and hydrogen applications. Visit the booth to discuss your next thermal challenge.

Green Watt/Powerland Tech
Booth: 1345
www.greenwattpower.com

GWP-Powerland Technology (Green Watt Power), a division of Powerland Technology, specializes in electric vehicle (EV) chargers, DC/DC converters, power supplies and other power solutions in related applications.

Grote Industries
Booth: 550
www.grote.com

Celebrating 125 years in business this year, Grote Industries is a global leader in the development, manufacture and supply of innovative visibility, safety and smart trailer systems for the on-highway, off-highway and trailer body builder markets. Family owned since 1901, the company is headquartered in Madison, Indiana.

GS Global Resources
Booth: 1010
gsglobalresources.com

GS Global Resources (GSGR) is the foremost machine performance resource trusted by OEMs who demand competitive advantage from every solution. Customers profit from continuous technology and innovation transfer through a single point of accountability. The company's integrated application solutions perform for the life of the machine, and for the lives of customers.

Guild Automation
Booth: 1360
www.guildautomation.ca

Guild Automation helps heavy equipment manufacturers with embedded software, electrical systems, HMIs, controls, wire harnesses, integrations and legacy system updates. It works alongside internal teams to solve technical problems, support new product development, improve existing machines and provide flexible capacity while clients retain ownership of their intellectual property and documentation.

H

HED Controls
Booth: 310
www.hedcontrols.com

Visit HED to explore rugged vehicle control solutions for commercial vehicles and off-highway equipment. HED's controllers, displays, keypads and telematics help OEMs simplify electrical architectures, improve operator feedback, enable diagnostics and support smarter, safer, more productive modern machines – backed by collaborative engineering and long-term customer support from concept to production.

Hengli America Corporation
Booth: 1110
www.henglihydraulics.com/en

Hengli Hydraulics supplies cylinders, pumps, motors, valves, integrated hydraulic systems, electric actuators and motion control solutions for construction, agricultural and off-highway equipment. The Chicago office supports US customers with sales, engineering, logistics and aftermarket service.

HMWS Manufacturing
Booth: 560
www.hmws.ca

HMWS Engineered Solutions services the electrical wiring harnesses, installation kits and custom fabrication markets for mining, construction, automotive and transportation industries. HMWS provides design, production and installation services across various types of equipment. The firm has positioned itself as a solutions provider by creating products through active customer collaboration.

Howland Technology
Booth: 940
howlandtechnology.com

Howland Technology is a leading systems integrator for electric/hybrid drive solutions, supporting OEMs with engineering, system components and software integration. Headquartered in Illinois, Howland serves North America with custom design services, top-tier components and expert support to help clients – from startups to global manufacturers – build efficient, zero-emission vehicles and equipment.

HPI SAS
Booth: 970
www.hpi-eu.com/en

HPI SAS has been a showcase of French excellence in the design and manufacture of custom hydraulic solutions since 1966. Its expertise spans high-performance silent pumps and aerospace components. With entirely in-house prototyping, assembly and quality control, HPI delivers highly precise, reliable and custom-tailored technical answers for demanding global projects.

Husco
Booth: 405
www.husco.com

Husco's off-highway team specializes in customized hydraulic solutions for agricultural, construction, material handling and commercial equipment. Its products translate operator commands into machine motion. Visit the booth to experience GenSteer, the award-winning steer-by-wire technology, and see how Husco is helping improve equipment productivity, efficiency, safety and performance through next-generation steering solutions.

HyCast LLC
Booth: 1160
www.hycastfoundry.com

HyCast Foundry is a gray and ductile iron foundry dedicated to delivering high-quality castings for the off-highway, agricultural, construction, mining and industrial equipment markets. Combining experienced technical expertise with responsive customer service, HyCast provides reliable, precision-engineered castings and scalable production solutions for OEMs throughout North America.

Hydac Technology Corporation
Booth: 510
www.hydac.com/en-us

Hydac develops advanced hydraulic, electronic, sensor, cooling, filtration and motion control technologies for mobile and industrial equipment. With a global network of product and applications resources, Hydac partners with customers to deliver innovative system solutions that enhance the productivity, reliability, efficiency and performance of their equipment.

HydraForce
Booth: 520A
www.hydraforce.com

Build a better machine. Boost machine performance and speed your time-to-market with Bosch Rexroth and HydraForce. Now offering the broadest portfolio of innovative compact hydraulic solutions, from concept to prototype to your machine. Go to the source: visit the booth.

Hydro Leduc
Booth: 1350
www.hydroleduc.com

Hydro-Gear
Booth: 1315
www.hdyro-gear.com

Hydrotech/Isaacs
Booth: 1065
hydrotech.com

I

IC Flow Controls, Inc.
Booth: D10
www.icflow.com

VSE produces high-precision flow meters for virtually all pumpable media. Flow ranges from leakage detection to 800GPM, with pressure up to 14,000psi, offering a great solution for flow metering in-lab and on-equipment applications. See the new HBE oil air cooler for off-highway vehicles and HBE pump-motor couplings at the booth.

ICVS/Ametek
Booth: 485
store.ametekiscd.com

ICVS (Instrumentation, Controls and Vision Systems) develops and manufactures advanced electronic instruments, camera systems, control solutions and image processing technologies designed to improve the efficiency, safety and sustainability of mobile machinery and industrial processes worldwide.

IFP Motion Solutions Inc.
Booth: 730
www.ifpusa.com

IFP Motion Solutions is a growing motion control corporation headquartered in Cedar Rapids, Iowa. Its business spans four locations: Cedar Rapids, Minneapolis, Houston and Kansas City. All of these collaborate to serve 13 states with a unique blend of manufacturing, repair and refurbishing, design engineering, testing, service and components distribution.

Ileri, Inc.
Booth: 135
www.ilerigroup.com

Ileri Group is a trusted OEM partner in engineered control technology, with over 40 years of manufacturing and product development experience. Located in the US and Turkey, Ileri supplies leading OEMs worldwide with steering, access control, motion control and welded fabrication solutions.

Infinitybox
Booth: 1145
www.infinitybox.com

Infinitybox designs and manufactures a broad range of CAN-based power distribution products for the commercial and off-highway markets. These include power distribution modules, CAN gateways, input expanders, motor control modules and wiper control modules. All products are engineered and manufactured in the USA.

Inmotion
Booth: 720
evs-inmotion.com

Inmotion designs and manufactures electric motors and motor controllers for electrified equipment. Its solutions deliver reliable performance, efficient power management and seamless system integration. Visit the booth to learn how Inmotion helps OEMs accelerate electrification with proven technology and engineering expertise.

InSource Technologies
Booth: 1155
www.insource.tech

InSource Technologies is a contract manufacturer in Paulding, Ohio, producing high-quality wire harnesses, electronic controls and custom refrigeration systems. With engineering support and dependable delivery, InSource helps OEMs move smoothly from concept to production. You design it. InSource builds it.

International Fluid Power Society
Booth: 530
www.fluidpowerjournal.com

Intradin (Thailand) Co., Ltd
Booth: 1100
www.intradin.com/products/hydraulic-products

Hydroworks designs and manufactures hydraulic cylinders, telescopic cylinders and hydraulic pump and control valves for agriculture, trailers, construction and mobile equipment. The company provides OEM/ODM solutions, standard products and customized hydraulic systems with reliable quality, competitive lead times and global supply capabilities.

Inventus Power
Booth: 355
www.inventuspower.com
Inventus Power is dedicated to driving the adoption of clean energy solutions and supporting the electrification strategies of its partners and customers worldwide. It has over 60 years of battery design and manufacturing experience and has been helping OEMs transition to lithium-ion battery technology for more than three decades.

IronClad Hydraulics
Booth: 1255
www.ironcladhydraulics.com
IronClad Hydraulics designs and manufactures custom hydraulic cylinders for off-highway vehicles, construction, agriculture and industrial equipment. With over 25 years of OEM experience, advanced automated production, 100% pressure testing and North American support, IronClad Hydraulics delivers reliable welded, tie-rod, telescopic and special-purpose cylinders built to your specifications, quality requirements and timelines.

Ironmarkets
Booth: 145
www.iron.markets

iVT Off-Highway Vehicle Technology Expo 2027
Booth: 400
ivtexpo-usa.com
Connect with the OEM engineers, system integrators and technical decision-makers specifying the next generation of off-highway machines. iVT Off-Highway Vehicle Technology Expo connects suppliers with 2,000+ industry professionals across electrification, hydraulics, autonomy, controls, HMI, software, testing and advanced components, alongside 100+ exhibitors and 50+ expert speakers. Visit Booth 400 to discuss 2027 exhibition space, sponsorship packages and how your technology can generate qualified leads from this focused technical audience.

J

JEM Technical
Booth: 1065
jemtechnical.com

John Deere Electronics
Booth: 825
www.deere.com/en
John Deere Electronics delivers electronic solutions not only for John Deere machines, but also for OEMs worldwide. It collaborates with equipment manufacturers across on- and off-highway industries to provide displays, telematics, controls, power electronics, connectivity and autonomy components as proven solutions for use in their machines.

Joral LLC
Booth: 660
Joralllc.com

JR Merritt Controls, Inc.
Booth: 420
www.jrmerritt.com
JR Merritt Controls is a family-owned American manufacturer with 40 years of experience designing and manufacturing custom joysticks, operator controls and seating systems for construction and off-highway equipment. Visit the booth at iVT Expo North America to explore the latest multifunction handles, joystick technology and operator chair systems.

JW Speaker
Booth: 1060
www.jwspeaker.com
In 2026, JW Speaker launched the EVO-X model family, advancing the future of visibility through intelligent technology, precision optics and globally compliant lighting solutions. Engineered for superior performance and durability, EVO-X sets a new benchmark with innovative design, exceptional beam control and uncompromising reliability in every environment.

K

KHL Group Americas/ Power Progress
Booth: 1380
www.khl.com
Power Progress is the trusted media resource for the engine, power, power generation, electrification, stationary and marine markets. Since 1935, it has connected OEMs and engineers with technical insights, emerging technologies and market intelligence that support product development, innovation and informed decision-making.

Knott Brake Co.
Booth: 450
knottbrake.com
Specializing in custom-engineered braking solutions for off-highway applications, Knott Brake designs and manufactures high-performance brakes tailored to demanding operating environments. Its products deliver reliable stopping power, precision control and long-lasting durability across a wide range of industries. Partner with Knott Brake for innovative, application-specific braking solutions that maximize safety, performance and efficiency.

Kreisel Electric
Booth: 500
www.kreiselelectric.com
Rooted in Austria but globally oriented, as part of the John Deere family, Kreisel Electric aims to drive the future of e-mobility with sustainable battery solutions. With over 200 employees driving innovation in battery technology, it focuses on developing charging infrastructure as well as battery solutions for off-highway and marine.

KYB Americas Corporation
Booth: 130
www.kyb.com

Kyungwoo Systech, USA
Booth: 500
kyungwoo.com/en
Kyungwoo Systech has been a leader in developing and providing ICT-based automotive electronics solutions for construction equipment and industrial vehicles for 25 years. It is a trusted one-stop solution partner committed to developing, designing and manufacturing innovative, high-quality automotive and safety solutions.

L

Laser-View Technologies
Booth: 735

laser-view.com

Laser-View Technologies is a provider of non-contact measurement sensors and systems for industry. It solves your most challenging industrial applications with sensors and accessories to provide a complete solution. The product offerings include DIS sensors (accelerometers, inclinometers, tilt switches, rotary sensors), Dimetix laser distance sensors and Crane Sentry Systems.

Leggett & Platt Hydraulics
Booth: 160

phc-global.com/technology-and-innovation

The new IRM Sensor is the result of years of research and development. This breakthrough integrates advanced radar technology into a robust cylinder sensor, delivering precise measurement and control in even the harshest environments. The IRM Sensor provides reliable, next-level performance for demanding construction, material handling and industrial applications.

LEI India
Booth: 165

www.leiindias.com

LEI India is a designer and manufacturer of M12 signal cables, power cables and connectors from Pune, India. It has extensive experience in working with off-highway vehicle companies in various sectors including crushers, mining equipment and construction equipment. Email info@leiindias.com or sales@leiindias.com for M8, M12, M16, M23 signal, power and data cables for your projects.

LHP Telematics by VitalEdge Technologies
Booth: 1050

www.lhptelematics.com

LHP Telematics by VitalEdge helps off-highway OEMs accelerate connected machine programs through embedded telematics, cloud software, remote diagnostics, firmware-over-the-air updates and enterprise integrations. The flexible, OEM-branded platform speeds deployment, improves machine performance and service efficiency, supports global lifecycle management and creates new recurring digital revenue opportunities for off-highway equipment worldwide.

Linak US Inc.
Booth: 435

www.linak-us.com

Linak US partners with leading agriculture OEMs to deliver durable, high-performance actuator solutions for modern equipment. From precision farming to heavy-duty machinery, Linak technology enables reliable motion control, improved efficiency and simplified integration – helping manufacturers build smarter, more productive solutions for today's demanding agricultural environments.

Luis Technology
Booth: 1370

www.luis.de

Luis Technology develops AI-based camera and driver assistance systems for commercial and off-highway vehicles. Its Safe Edge AI camera detects people in real time, provides collision warnings and integrates directly into vehicle systems. Developed in Germany, Luis solutions improve safety, operational efficiency and reliability in demanding industrial environments.

M

Magnet Schultz of America
Booth: 640

magnet-schultzamerica.com

Makersan
Booth: 1040

www.makersan.com

Smart solutions for mobile and industrial markets: Makersan delivers advanced electronic and mechatronic systems to empower your manufacturing applications. The extensive portfolio includes controllers, displays, sensors, pedals, joysticks and keypads. Makersan provides an integrated, innovative ecosystem designed to seamlessly manage both mechanical and electronic contents for all your field requirements.

Marlin Technologies, Inc.
Booth: 1070

www.marlintech.com

Marlin Technologies helps off-highway OEMs bring smarter machines to market with rugged electronic controls, CAN-based displays, controllers, keypads and connectivity solutions. Marlin's responsive engineering team and customer-focused support deliver customizable, USA designed and manufactured systems that simplify integration, accelerate development and perform reliably in the toughest applications.

Matrix Engineering Consultants
Booth: 1365

www.matrixengrg.com

Matrix Engineering Consultants solves complex engineering challenges for companies developing demanding products and systems. It partners with OEMs and industrial innovators to improve reliability and deliver practical, field-proven solutions. Beyond analysis, Matrix supports implementation. Backed by the RFA Group, Matrix combines consulting agility with deep technical resources and long-term stability.

Mectronx
Booth: 1375

www.mectronx.com

Based in Oconomowoc, WI, Mectronx specializes in premium electronics contract manufacturing. It delivers rapid prototyping and complete product assembly with a strict focus on high-end fit and finish. It builds sleek user interfaces and displays combining showroom aesthetics with extreme, harsh-environment durability for the toughest outdoor elements.

MFP Automation Engineering
Booth: 340

www.mifp.com

MFP Automation Engineering is a fluid power systems integrator specializing in custom hydraulic manifold design, CNC machining and complete system assembly. With certified fluid power engineers on staff, MFP serves OEM machine builders across industrial and mobile applications. Family-owned since 1991. Visit mifp.com.

MicroVision
Booth: 500

microvision.com

MicroVision is built to lead the lidar 2.0 era, delivering the portfolio with the right performance and price to unlock scalable autonomy. Its solutions help customers across the automotive, industrial and security and defense industries use perception systems that are powerful, reliable and poised to unlock value for customers.

Moba Corporation
Booth: 445
moba-automation.com

Moba provides automation, control, sensing and connectivity solutions for off-highway vehicle manufacturers worldwide. The technologies include HMIs, sensors, machine control systems, weighing solutions and custom OEM integrations that improve safety, productivity and machine performance. Visit the booth to explore innovative solutions for next-generation mobile equipment.

MP Filtri USA, Inc.
Booth: 900
www.mpfiltriusa.com

MP Filtri, founded in 1964 by Bruno Pasotto in Milan, Italy, has grown to a successful multinational organization designing and manufacturing hydraulic filtration products, tank accessories, shaft couplings and pump-motor mounts, and contamination monitoring products within five production plants in Italy, the UK and the USA.

MRS Electronic, Inc.
Booth: 700
www.mrs-electronics.com

Exciting announcement coming at iVT Expo North America 2026! Additionally, the new NeuralPlex product family, and many additions to MRS's standard product offering are ready for you to see! See you at the booth – near the show entrance. See the latest CAN controllers, gateways, telematics, HMIs, relays and custom solutions.

Murrelektronik
Booth: 1220
www.murrinc.com

Murrelektronik is a global leader in decentralized electrical installation and automation technology. For over 50 years, it has driven innovation – helping manufacturers eliminate control cabinets by efficiently connecting signals, data and power from the cloud to the production floor.

N

Navitas Vehicle Systems
Booth: 201
www.navitasvs.com

Neuroglia Technologies
Booth: D9
www.neurogliatech.com

NFPA
Booth: 1020
www.nfpa.com

Northwire, Inc.
Booth: D7
www.northwire.com

Northwire designs and manufactures custom technical wire and cable interconnect solutions for a variety of industries including industrial off-road heavy equipment and agricultural applications. Specializing in ruggedized custom cables that withstand harsh environments, Northwire's design engineers partner with you to develop reliable, high-performance and industry-compliant solutions for demanding applications.

Nott Company
Booth: 700
www.nottco.com

Nott Company delivers engineering, integrated systems and supply chain solutions for off-highway vehicle OEMs. Visit the booth to explore electrification, electrohydraulic controls, thermal management, fluid conveyance, wire harnesses and production-ready assemblies. From prototype through production, Nott's experts help simplify complex vehicle systems and accelerate your path to market.

NVR
Booth: 835
www.nvr-us.com

NVR is a global electrification partner for off-highway equipment. It provides intelligent control, electrification and IoT solutions for industries including construction, agriculture, material handling and commercial vehicles. With global R&D, manufacturing and service capabilities, NVR works with customers worldwide to accelerate the future of electrification.

NX Technologies
Booth: 500
nx-tech.com

NX is a technology company supplying motor controller and battery management systems for electric vehicles. It has an extensive powertrain optimization experience, working for many leading automotive players. Now it challenges the status quo to help customers improve their electric drives and battery systems in multiple mobility applications.

O

OEM Controls
Booth: 215
www.oemcontrols.com

OMCT Solutions
Booth: 1337
www.omctsolutions.com

Omen Analytics Inc.
Booth: 230
www.omen.ai

Omen AI replaces send-off fluid analysis with a field-hardened sensor that lives on the machine or travels as a portable lab. Technicians get instant, PPM-level trace metal and viscosity readings at the asset – no shipping, no multiday turnaround – catching failures before they happen.

Omni Powertrain Technologies
Booth: 610
www.omnipowertrain.com

Otto Controls
Booth: 710
www.otto-controls.com

Otto Controls is a US manufacturer of joysticks, grips and precision switches trusted by global customers. As a vertically integrated manufacturer, Otto manages the entire production cycle, delivering high-quality solutions and value-add services. Visit Otto's booth to see space-saving compact solutions that offer precision control in rough environments.

Owasys
Booth: 220
owasys.com

Owasys develops, manufactures and launches wireless embedded telemetry and communications platforms that cover a wide range of needs in harsh environments. The company creates open platforms to provide solutions for system integrators and service providers to enable them to develop innovative M2M and IoT applications.

P

Parker Hannifin Corporation
Booth: 620

www.parker.com

Parker Hannifin is the global leader in motion and control technologies and systems. The company's engineering and aerospace expertise spans the core motion and control technologies – electromechanical, hydraulic and pneumatic, fluid and gas handling, filtration, engineered materials, climate control and process control.

PEAK by HMS Networks
Booth: 220

www.peak-system.com

PEAK by HMS Networks delivers the industry-standard CAN, CAN FD and CAN XL hardware interfaces trusted for heavy-duty vehicle diagnostics and simulation. The company's rugged PCAN adapters and comprehensive software APIs offer bulletproof reliability and native J1939 support. Streamline your network analysis with the tools engineers rely on for seamless machine-to-PC communication.

Pektron North America
Booth: 365

www.pektron.com

Phase USA
Booth: 335

www.phaseusa.us

Phase designs compact, high-performance motors that drive efficiency and reliability in multiple industries including electric propulsion and automation. As a specialist in co-engineering motor and drive solutions, Phase continuously revolutionizes permanent magnet high-torque motors and servomotors by carefully adapting them to specific application requirements.

Phoenix Contact USA, Inc.
Booth: 100

www.pheonixcontact.com

Phoenix Contact USA, founded in 1981, is advancing the industrial landscape with solutions that connect, communicate and automate. More than 1,000 employees help solve application challenges. Together with customers, Phoenix is creating a sustainable world based on its passion for technology and innovation.

Polygon Composites
Booth: 480

polygoncomposites.com

Polygon manufactures composite bearing solutions engineered to reduce maintenance, improve reliability and perform in demanding industrial environments. Visit the booth to learn how Polygon's grease-free Poly Fusion bearings and proven composite technologies help OEMs extend equipment life, reduce downtime and eliminate lubrication across a wide range of heavy-duty applications.

Powell Electronics, Inc.
Booth: 1230

www.powell.com

Powell Electronics provides environmentally rugged components for heavy vehicle high-speed interconnect, 1000BASE-T1 Gb-ethernet and ISO 11783-2 applications. Powell is a franchised distributor for all major connector manufacturers as well as customizing a vast array of related products, including ground radar, switches, connectors, circuit breakers, relays and value-added assemblies.

Prodrive Technologies
Booth: 1130

www.prodrive-technologies.com

Prodrive Technologies presents its onboard solutions portfolio, offering embedded control and IIoT and power solutions. With 30+years of expertise, Prodrive offers both off-the-shelf solutions and fully customized designs to meet specific customer requirements – delivering performance, reliability and ruggedized operations in demanding industrial applications.

Proemion GmbH
Booth: 465

www.proemion.com

Proemion – telematics, designed for OEMs. Proemion is the only telematics provider in the off-highway industry exclusively dedicated to OEMs. Its solution gives equipment manufacturers full control over their machine data – turning it into measurable business impact across service, after-sales and engineering. Trusted by Bomag, Ditch Witch and Gomaco.

Progressive Automations Inc.
Booth: 460

www.progressiveautomations.com

Specializing in precision linear actuators, lifting columns and automation components for industrial and off-highway vehicle applications, the company's engineered solutions power mobility, lifting and control systems across demanding environments. Quality, reliability and customization drive every solution Progressive Automations delivers.

Q

QCC LLC
Booth: 945

www.qccorp.com

R

RAFI North America, Inc.
Booth: 1115

rafi-northamerica.com

RAFI North America is a subsidiary of RAFI, a global leader in human-machine interface solutions. The company's durable, safety-focused HMI technologies are engineered for the demands of industrial and off-highway vehicles, combining tactile feedback, custom functionality and rugged design to help OEMs provide more efficient, safer and smarter operator experiences.

Red Dot Corporation
Booth: 630

reddot.red

Red Dot Corporation is a 100% employee-owned manufacturer of premium HVAC solutions for heavy-duty vehicles and demanding environments. Since 1965, Red Dot has engineered reliable climate-control systems, components and replacement parts for OEM and aftermarket customers across construction, agriculture, trucking, military, bus, off-highway, specialty vehicle and emerging markets.

REFUdrive GmbH
Booth: 275
www.refu-drive.com
High-performance power electronics have always been REFUdrive's core competence. Together with customers, the company develops exactly the specific solution that fits the respective requirement. Whether in automated vehicles for container transportation, agricultural or construction machinery or municipal vehicles, the solutions from REFUdrive can be used flexibly, efficiently and sustainably.

Rheintacho Messtechnik
Booth: 1150
www.rheintacho.de

RISE Robotics
Booth: 645
www.riserobotics.com

Riverside Manufacturing, LLC
Booth: 930
www.riversidemfg.com
For over 75 years, Riverside Manufacturing has delivered excellence in harsh environment electronics. It specializes in build-to-print solutions, custom electronic design and contract manufacturing, all under one roof. Certified to ISO9001:2015, UL, CSA and ANSI standards, Riverside partners with its customers from concept through production to get it done right.

S

Santroll Electric Technology Co., Ltd
Booth: 920
www.santrollgroup.com
Santroll develops high-performance electric drive systems featuring hairpin motors, PMSM technology and advanced motor inverters. The company's flat-wire winding solutions provide excellent power density, efficiency and durability for off-highway vehicles, construction equipment and industrial applications, helping global customers accelerate the transition toward cleaner and smarter electrified mobility.

Scanreco US, Inc.
Booth: 745
www.scanreco.com
Rugged and futureproof remote control systems elevating your equipment and empowering operators. Scanreco remote controls make operations intuitive, reliable and efficient from a safe distance. Explore configurable bellypack and handheld transmitters and plug-and-play receivers. Experience IP65/67-rated ruggedness and SIL 3/PL e functional at the booth.

Schafer Driveline
Booth: 425
www.schaferindustries.com/driveline
There is one source for the quietest, most reliable drivelines. This is it. If you insist on the highest-quality, quietest axles for your recreational or light-utility off-highway vehicles, Schafer Driveline delivers. Each custom-engineered driveline comes with a built-in reliability and hassle-free performance you can trust.

Sealing Devices Inc.
Booth: 1325
www.sealingdevices.com
Sealing Devices, a premier seal and gasket manufacturer, is partnering with Gore to showcase its line of Gore protective vents at the expo. Sealing Devices, an authorized distributor for Gore, has technical experts on-hand to discuss solutions for sealing and protecting electronics housed in heavy-duty agricultural, construction and material handling equipment.

Settima USA Inc.
Booth: 320
www.settima.it
Settima's new era of electrification has begun: together with the Continuum pump or the 4QContinuum hydraulic machine, SpinRel electrohydraulic units embody Green Silence's vision: combining technology and environmental responsibility to transform the electric vehicle and mobile machinery sector. A new standard in efficiency, independence and acoustic comfort.

Sick
Booth: 1305
www.sick.com
Sick Sensor Intelligence delivers advanced sensing solutions that help off-highway vehicle manufacturers improve safety, productivity and automation. From lidar and radar to vision and positioning technologies, Sick enables reliable environment perception, collision avoidance and machine control in demanding operating conditions, supporting smarter, more efficient mobile equipment across diverse applications worldwide.

Siko Products
Booth: 240
www.siko-global.com
Siko sums up six decades of experience in sensor technology and is currently specializing in groundbreaking products for mobile machines. The key to withstanding the hardest conditions is the company's PURE.MOBILE sensor platform. Each sensor is also available in a safety version for applications up to Performance Level d (PLd).

Sittab Inc.
Booth: 305
sittab.se/en
Sittab delivers ergonomically engineered seating solutions for industrial applications focused on comfort, durability and performance in demanding environments. The company partners with OEMs and dealers to provide seats, components and aftermarket support, and is expanding into off-highway applications with mounting solutions currently in development.

solectrix GmbH
Booth: 500
www.solectrix.de
As an innovator and independent full-service provider, solectrix develops and manufactures customized embedded electronic solutions and offers off-the-shelf electronic components. Embedded electronic engineering puts forward a multitude of complex requirements that cannot be met with simple standards, but that require exclusive solutions of the highest quality.

SPAL Automotive USA
Booth: 1200
www.spal.com

Spohn + Burkhardt North America Corp.
Booth: 1140

www.spobu-na.com

Spohn + Burkhardt North America delivers premium operator control solutions for OEMs across construction, mining, agriculture, forestry, material handling and specialty vehicles. Backed by over 100 years of German engineering, it provides joysticks, control stations, operator seats, cabins and local sales, inventory, assembly and technical support throughout North America.

Stucchi USA
Booth: 1320

www.stucchiusa.com

Stucchi is a global leader in hydraulic quick couplers and fluid connection solutions, delivering innovative, high-quality quick disconnect products since 1960. Backed by advanced engineering, expert technical support and industry-leading design capabilities, Stucchi helps customers improve performance, increase efficiency and solve complex fluid control and connection challenges.

STW (Sensor-Technik Wiedemann GmbH)
Booth: 1337

www.stw.technology

As an international company headquartered in Kaufbeuren, Germany, STW has delivered outstanding automation and digitalization solutions for mobile machines for over 40 years. With its modular system of standard or customized products, systems and software, STW helps customers build world-class machines through innovative technology.

Sun Hydraulics
Booth: 565

www.sunhydraulics.com

T

Takako Industries, Inc.
Booth: 1025

www.takako-us.com

Takako is a global manufacturer specializing in precision-machined hydraulic components, small axial piston pump technology, solenoids and advanced fluid power solutions. The company is recognized for its expertise in high-precision hydraulic pump parts used in construction equipment, industrial machinery, machine tools, agricultural equipment and other off-highway applications.

TEAM Industries
Booth: 706

www.team-ind.com

TEAM will be the preferred engineering and manufacturing partner for purpose-built vehicle and equipment OEMs for vehicles that move, lift, shift and serve a working function in commercial, industrial, defense and aerospace applications where engineering collaboration, precision quality and supply chain reliability are the deciding factors in supplier selection.

Tekdis LLC
Booth: 1335

www.tekdisllc.com

Tekdis supplies rugged industrial computers for demanding vehicle, rail and mission-critical applications. The portfolio includes in-vehicle and rail-grade computers, AI edge PCs, in-vehicle displays, vehicle PoE switches, vehicle antennas, radiation-hardened storage and memory. Tekdis supports system integrators and projects with dependable hardware sourcing, technical guidance and long-life product solutions.

Terzo Power Systems, LLC
Booth: 960

www.terzopower.com

The Lee Company
Booth: 1330

www.theleeco.com

For over 75 years, The Lee Company has designed and manufactured miniature precision fluid control components trusted across aerospace, automotive, medical, industrial and other demanding industries. The company's innovative standard and custom solutions deliver exceptional quality, reliability and performance, backed by global engineering expertise and dedicated technical support.

Thomas LLC
Booth: 540

www.thomas-group.com

Thomas is a leading manufacturer of electromagnetic actuators for mobility solutions and off-highway solutions. It is a development partner and system supplier of innovative, customized electronic actuator solutions for fluid and mechatronic applications based on efficient standards.

TiMotion USA, Inc.
Booth: 655

www.timotion.com/en

TiMotion provides complete electric motion solutions for agriculture, construction and forestry equipment. The company's turnkey systems integrate actuators, lifting columns, control boxes, hand controls, power supplies and smart controls, including CANbus, J1939 and Modbus. TiMotion helps manufacturers improve equipment performance, reliability and efficiency in demanding off-highway environments.

Topcon Positioning Systems
Booth: 1300

www.topcon-electronics.de

For nearly a century, Topcon has been a leading innovator of precision technologies. Its products have transformed infrastructure and agriculture worldwide by harnessing the power of precision in value-added solutions designed to save time and money, enable better outcomes and build the future of global markets. Visit the booth!

TPR America Inc.
Booth: 208

tpr.co.jp/tp_e/

TPR is a global manufacturer of precision powertrain components serving the automotive, commercial vehicle, construction, agricultural and industrial equipment markets. With decades of expertise in piston rings, cylinder liners, seal rings and other critical components, TPR supports OEMs and Tier 1 suppliers with high-quality products and support.

Trelleborg Damping Solutions
Booth: 260

www.rubore.com/en

Trelleborg Damping Solutions is the world leader in the production and development of polymer laminated material of noise and vibration damping solutions for automotive and industrial applications. The company's objective is to continue being the leader in damping technology in today's and tomorrow's challenges.

Turck
Booth: 1170
www.turck.us/en

Turck is a global leader in industrial automation, delivering rugged sensing, connectivity, RFID and decentralized I/O solutions for off-highway vehicles. Designed for demanding mobile equipment applications, Turck's technologies improve machine performance, enable reliable communication and increase efficiency, flexibility and productivity in harsh environments. Visit the booth to explore the latest solutions.

Tuson Corporation
Booth: 1355
www.tuson.com

Tyri Americas
Booth: 325
www.tyri.us

Tyri is a global manufacturer of lighting for industrial and commercial vehicles. In addition to its extensive range of standard products, Tyri specializes in customized, technology-focused solutions. Its IntelliLight system offers limitless operator control through CANbus and Bluetooth while its patent-pending headlight technology reduces cost and improves performance.

V

VIS Hydraulics North America Inc.
Booth: 1105
www.vishydraulics.com

Vogel & Plötscher
Booth: D4
www.voploe.de

Vogel & Plötscher develops and manufactures high-performance axial flux electric motors from 1.5 to 30kW. Its proven low-voltage portfolio is complemented by a growing range of high-voltage solutions for next-generation applications. In-house stator expertise further strengthens V&P's ability to deliver tailored drive systems.

W

Wandfluh of America
Booth: 1340
www.wandfluh.com

Wandfluh, a Swiss manufacturer represented in over 30 countries, has been specializing in the development of hydraulic valves and associated electronics since 1946. Its products not only stand for innovative technology, but also for cross-industry applications characterized by precision and durability, making Wandfluh the preferred choice for demanding applications.

Webtec LLC
Booth: 235
www.webtec.com

Webtec is a specialist manufacturer of hydraulic measurement and control products helping to improve the productivity of heavy machinery. For 60 years, Webtec has been helping customers worldwide in the industrial, mobile and agricultural sectors to diagnose hydraulic faults, verify hydraulic conditions and achieve repeatable hydraulic control.

WIKA Mobile Control, LP
Booth: 338
www.wika-mc.com

Part of the WIKA Group, WIKA Mobile Control has 50+ years of experience in the mobile machinery market and is a trusted expert in custom application development and system integration. WIKA Mobile Control's comprehensive solutions include a wide range of technologies, from sensors and HMI interfaces to mobile controllers and application-specific software.

Wilkes & McLean
Booth: 470
wilkesandmclean.com

Wilkes and McLean, the parent company of Wilkes Pulse and Wilkes Accu, is a hydraulic equipment manufacturer and distributor out of Schaumburg, Illinois. Wilkes Pulse manufacturers two types of in-line hydraulic suppressors and Wilkes Accu represents Nacol Accumulators.

Wuxi Wunfa International Co., Ltd
Booth: D8
www.wunfagroup.com

Wuxi Wunfa International is a seasoned trading company with its own hydraulic factory. Specializing in hydraulic units, gear pumps, flow dividers and more, the company's pumps feature compact size and high pressure, trusted by European and American clients for superior performance. Visit the booth to discuss your custom needs and build a reliable partnership.

Y

Ymer Technology Inc.
Booth: 965
www.ymer.com

Ymer Technology develops custom cooling and thermal management systems for diesel, electric and hybrid off-highway vehicles. Visit the booth to discover integrated TMS solutions that improve efficiency and reliability for non-road mobile machinery. Ymer serves OEMs across material handling, construction, aviation, energy, agriculture, forestry and mining sectors.

Z

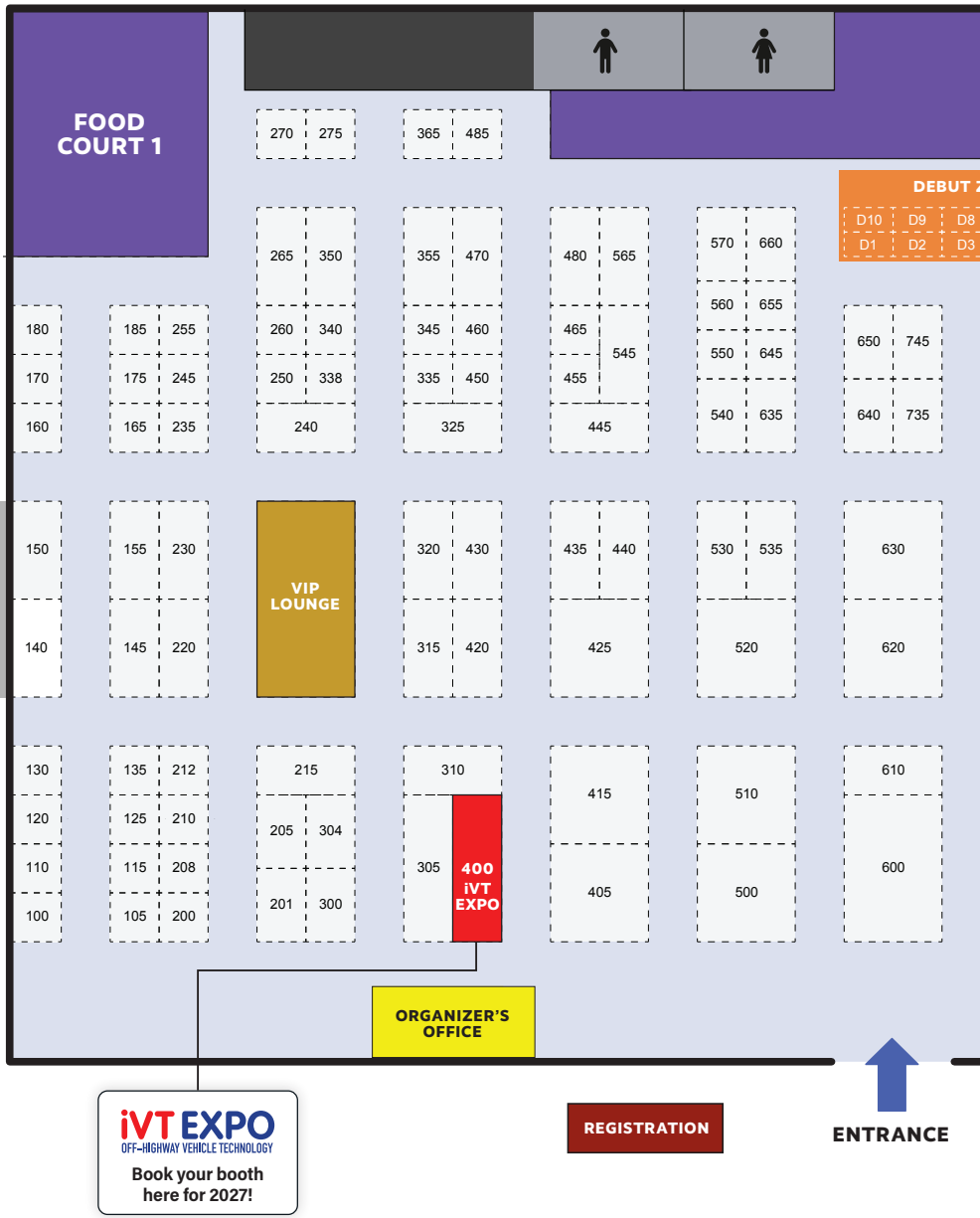
Zapi Group
Booth: 720
www.zapigroup.com/en

Zapi Group is engineering the transition to an all-electric, autonomous future with a highly integrated off-highway solution portfolio; including motion controllers, electric motors, high-frequency battery chargers and safety/asset-tracking software for application in full electric and hybrid vehicles.

Zivan Srl
Booth: 720
www.zivan.it

Zivan has over 35 years of experience charging battery-powered machines and vehicles, with robust on/off-board charging solutions (1-36kW, 12-96V) for material handling, aerial work platforms, construction equipment, agriculture, light-electric vehicles and more.

iVT EXPO
OFF-HIGHWAY VEHICLE TECHNOLOGY



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OFF-HIGHWAY VEHICLE TECHNOLOGY
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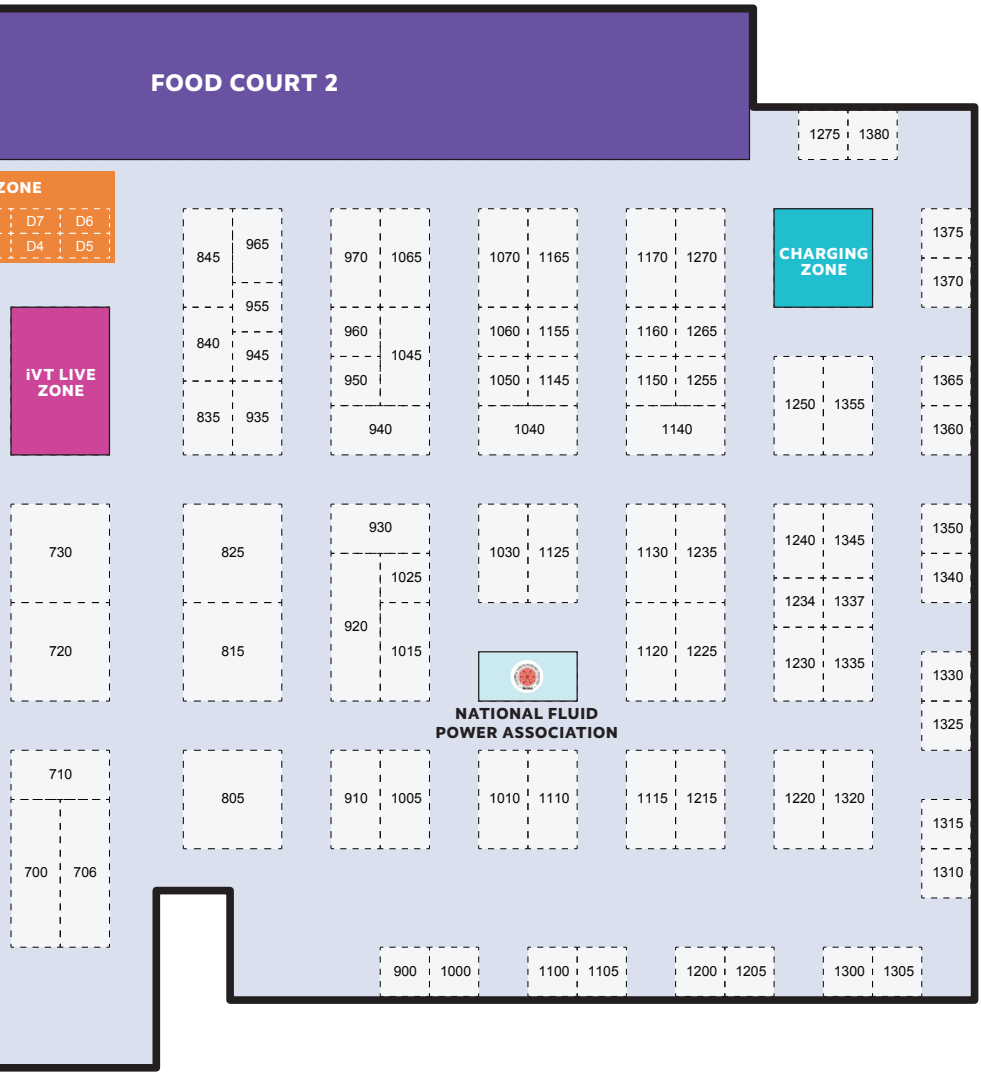


SHOW LAYOUT - HALL F

DONALD E. STEPHENS CONVENTION CENTER

The Off-Highway Evolution Conference

Plus, the **National Fluid Power Association (NFPA)** returns to host the Advanced Hydraulics Conference.

Off-Highway Evolution Conference

The Off-Highway Evolution Conference is a two-day summit showcasing cutting-edge advances and emerging industry trends. Explore the technologies that are shaping the next generation of off-highway vehicles.

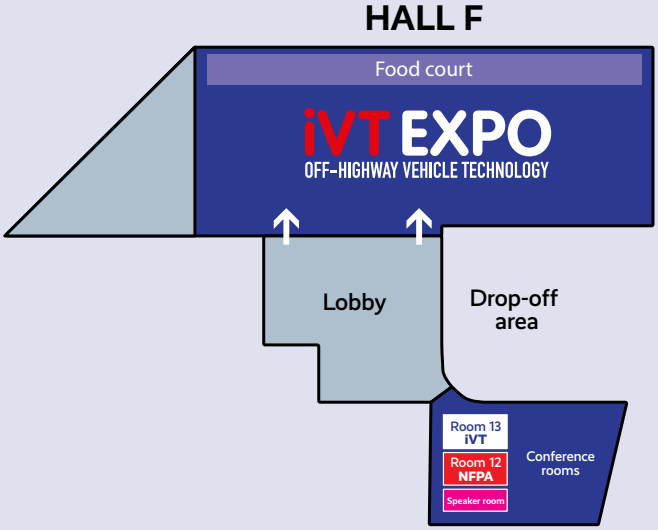
Influential speakers from global OEMs, Tier 1 suppliers, cutting-edge R&D centers and dynamic startups will share their insights, strategies, solutions and best practices in off-highway technology.

NFPA Advanced Hydraulics Conference

The National Fluid Power Association (NFPA) will once again partner with iVT Off-Highway Vehicle Technology Expo USA to deliver the Advanced Hydraulics Conference.

As the leading association representing the fluid power industry, NFPA brings together experts, innovators and engineers to explore the technologies shaping the future of off-highway equipment. The Advanced Hydraulics Conference has become a key destination for OEM engineers, vehicle designers and hydraulic specialists looking to stay ahead of the latest developments in machine performance, efficiency, connectivity and automation.

Conference room location



Day 1, Wednesday, August 19

Off-Highway Evolution Conference & NFPA Advanced Hydraulics Conference

PLENARY DISCUSSIONS: THE BUSINESS OF TECHNOLOGIES

ROOM 13

9:30am - Opening welcome address
Roz Guarnori, portfolio director, UKi Media & Events

9:40am - Fireside chat: Translating dual-use COTS technology to quickly enhance warfighter capabilities
Mark Pickett, president, Winmark Capture Solutions, USA
John Major, Jr, vice president/managing director, SMI/Alliance for Clean Vehicle Technology (ACVT), USA
John Tasdemir, vice president of engineering and operations, Sapa Transmission, USA
Alissa Roath, CEO, National Advanced Mobility Consortium (NAMC), USA
This critical conversation will explore how commercial off-highway technology, spanning electrification, autonomy, alternative fuels and propulsion systems is creating direct adjacencies with US military ground vehicle needs. Panel participants are best in class amongst their contemporaries and offer unique industry and government perspectives of dual-use (commercial and DoD) technology in the context of modernization and national security priorities. They will frame both the technical opportunity and the business cases for COTS, providing a framework for further conversations on the expo floor and during breaks. Come and hear their thought leadership and apply it to your business or technical strategies!

10:30am - Panel discussion: Off-highway autonomy at an inflection point: Choosing the path forward
Alan Berger, managing partner, ABCG, USA
Dr Ray Gallant, vice president, sustainability and productivity services, Volvo Construction Equipment, USA
Andy Sussman, growth lead, Forterra, USA
Tyler Schleicher, lead for architecture and tech expansion, Deere & Company, USA
Gopal Solanki, CEO, Remnav, USA
Off-highway automation has historically relied on rules-heavy, engineered robotics, while more recent approaches emphasize AI-driven perception layered onto structured planning and control. Advances in end to end physical AI, where machines learn world models and act probabilistically rather than deterministically, have introduced a third, more radical possibility that is rapidly being implemented in on-road applications. However, this remains largely unproven in off-highway deployment. This panel examines the relative strengths and limitations of these different autonomy architectures, focusing on the practical challenges each introduces around safety assurance, long tail validation, system transparency and human oversight. Grounded in lessons from early autonomy efforts, the discussion explores how technology choices shape products, operating models and deployment outcomes, and where the off-highway industry may ultimately draw the line between structure and learning. Questions are welcomed and will be integrated into the discussion.

11:20am - Panel discussion: AI-enabled and automated machines: Current OEM needs and hydraulic solutions
Eric Lanke, president/CEO, National Fluid Power Association, USA
Jon Frey, head of product area new business, NA, Bosch Rexroth Corp, USA
Congmin Niu, senior engineering manager, Komatsu, USA
Jason Looman, president, Scanreco North America, USA
Keith Simons, president, OEM Controls, USA
The rise of AI-enabled machines, some with automated functions, is creating a lot of changing demands for on-board and actuation technologies. This panel discussion will hear from stakeholders across this technology supply chain about the cutting-edge developments at both the machine and system level. Questions are welcomed and will be integrated into the discussion.

12:10pm - Break for lunch

Off-Highway Evolution Conference

ELECTRIFICATION AND ALTERNATIVE FUELS

ROOM 13

1:30pm - Advancing sustainable off-highway operations with renewable fuels

Dr Holly Mayton, lead, research partnerships and science policy, technology and policy for partnerships, John Deere, USA

Off-highway industries face mounting pressure to reduce emissions, and renewable fuels offer a practical, high-performance solution that complements electrification for heavy machinery. For large equipment that operates for long hours in remote environments, renewable fuels provide a drop-in pathway to lower emissions without sacrificing productivity. This session will explore how renewable fuels drive meaningful carbon reduction while supporting energy security and rural economic growth. It will also highlight how precision agriculture technologies enable more efficient renewable fuel production and strengthen supply chain transparency to decarbonize off-highway operations at scale.

1:50pm - Electrification and autonomous architectures for industrial and off-highway vehicles

Anthony Giesey, SVP and head of engineering, Evonomy Group, USA
Kamryn Stripp, intern, electrical engineering, Evonomy Group, USA

This presentation focuses on what the key challenges are in the electrification and autonomy space, the impact of macroeconomic factors and how Evonomy is addressing these challenges and factors. The presentation will highlight what is trending in terms of architecture, how that has changed in the last 12 months and what it looks like moving forward.

2:10pm - Off-highway high-voltage electrification: Challenges, opportunities and a modular path forward

Tom Nguyen, vice president of business development and product strategy, Inventus Power, USA

As electrification expands beyond passenger vehicles, utility and off-highway OEMs are adopting high-voltage systems to meet growing performance, efficiency and emissions demands. These architectures offer benefits such as higher power density, faster charging and improved efficiency, but also introduce challenges in safety, compliance and system complexity. This session examines key considerations, including battery integration, thermal management, durability and impacts on vehicle design and serviceability. It also explores how modular battery and BMS approaches reduce risk, enable scalability and speed development. Attendees will gain practical insights into designing safe, reliable and adaptable high-voltage systems for diverse and evolving equipment applications.

2:30pm – Break

2:50pm - The messy middle meets the tough terrain: Off-highway electrification

Prof Xubin Song, Dr, Zhejiang University of Science and Technology, USA

This presentation extends DHC and EREV to the off-highway domain as a diversified strategy combining electrified platforms with flexible, low-carbon power generation. The dedicated hybrid cycle (DHC) provides breakthrough thermal efficiency (>20% improvement over Otto cycle) and fuel-agnostic design (hydrogen, methanol, ammonia, biofuels) enables a compact, high-efficiency range extender that preserves the zero-emission electric drivetrain while eliminating refueling infrastructure anxiety. The DHC-enabled extended-range electric (EREV) concept, powered by renewable fuels, offers an optimal bridge and long-term solution for high-duty-cycle off-highway applications.

3:10pm - Designing electrification for heavy-duty off-highway equipment

Pedro Chavez, CEO, Voltarium, USA

Off-highway machinery pushes electrification systems harder than most road vehicles. Equipment operates under continuous load, often in remote environments where charging infrastructure is limited. This session examines practical approaches to electrifying construction, agriculture and mining equipment using lessons from defense, transit and commercial vehicle programs. Attendees will learn how to design battery systems, hybrid architectures and worksite energy strategies that support real duty cycles while maintaining reliability and productivity in demanding environments.

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3:30pm - Hydrogen internal combustion engines: Building on proven platforms for a lower-carbon future

Chad Fohne, customer engineering manager, Cummins, USA

Hydrogen internal combustion engines provide a compelling decarbonization pathway for off-highway applications that require high power density, long operating hours, rapid refueling and durability in demanding environments. Cummins is developing hydrogen ICE technology by adapting proven heavy-duty engine platforms to operate on hydrogen while maintaining the performance, reliability, serviceability and integration familiarity expected by off-highway customers, but can't do it alone. This session will discuss what Cummins has learned along the way and some of the challenges still facing this zero-carbon fuel solution.

3:50pm - Powertrain efficiency and affordability analysis for off-road machinery. A case study on wheel loaders

Ram Vijayagopal, technical lead, vehicle technology analysis, vehicle and mobility systems department, transportation and power systems division, Argonne National Laboratory, USA

Off-road machinery is very diverse in size, application and usage requirements. To evaluate efficient and affordable powertrain technology choices, Argonne has developed its simulation capabilities. In this work, a variety of advanced powertrains are evaluated on a medium-sized wheel loader. The modeled powertrains include a conventional diesel internal combustion engine, a hydrogen internal combustion engine (H2 ICE) hybrid powertrain, a fuel cell hybrid powertrain and a battery electric power system. The components were sized for all powertrains to ensure comparable performance with the diesel baseline. A representative duty cycle was generated to simulate operating performance and energy efficiency. The simulation results quantify the challenges in vehicle weight, cost, uptime, onboard energy storage needs, etc. The results indicate that an H2 ICE hybrid wheel loader has potential as a transitional alternative solution in the construction sector, if we can overcome the challenges in fuel availability and cost. This powertrain combines the reliability and robust performance of conventional engine-based drivetrains with the efficiency benefits of hybridization.

4:10pm - Simplified electronics: The breakthrough powering the future of electrified construction

Dr Nate Keller, business development manager, Moog, USA

This presentation will examine how simplified, modular electronics architectures can transform the development of electrified construction vehicles. As OEMs face growing complexity from electrification, automation and digitalization, the paper will outline why an integrated, configurable platform – such as Moog Construction's Adaptive Electrification Management System (AEMS) – offers a more efficient path forward. It will explore how consolidating discrete components, streamlining power distribution and standardizing software can reduce costs, improve reliability and accelerate production. By presenting a scalable framework for next-generation machine design, the presentation aims to guide manufacturers toward long-term efficiency, fleet sustainability and competitive advantage in an evolving industry.

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10” Programmable Display
(Keyed / Non-Keyed Variants)

Stone crushers are essential in quarry and construction environments, forming the backbone of material processing operations. They break down rocks into consistent, usable aggregates required for a wide range of infrastructure projects. By enabling high-throughput production while maintaining material quality, stone crushers help maximise operational efficiency, reduce handling time, and keep site operations running safely and economically under demanding conditions.

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iVT EXPO
INDUSTRIAL VEHICLE TECHNOLOGY

August 19 – 20, 2026
Chicago, USA
Booth 840

Made in **UK**

Day 1, Wednesday, August 19

NFPA Advanced Hydraulics Conference

ROOM 12

1:30pm - From machine data to AI-enabled service: Turning connected equipment into a competitive advantage

Adam Livesay, CEO and co-founder, Elevat, USA

As off-highway machines become more connected, hydraulic systems are emerging not only as power delivery mechanisms, but as rich sources of operational intelligence. Pressure, flow, temperature, load, duty cycle and fault data – combined with machine context, controls, telematics and service history – can enable a new generation of AI-powered service capabilities. This session will explore how OEMs can use hydraulic and machine data to improve diagnostics, accelerate service response, support technician decision-making and move from reactive support toward more intelligent, proactive service models that create measurable uptime and customer value.

1:50pm - From components to intelligence: The evolution of off-highway vehicles

Darren Lockyer, VP of electronics, Bailey International, USA

As off-highway equipment evolves toward electrification and connected ecosystems, hydraulic systems are undergoing a fundamental transformation. This session explores how digital hydraulics and smart fluid power architectures are enabling machine OEMs to achieve higher efficiency, greater controllability and differentiated operator experiences. Attendees will gain insight into how integrating sensors, software and connectivity into hydraulic systems unlocks measurable performance improvements across the machine lifecycle.

2:10pm - Where ePTOs win: Selecting optimal applications for electric power take-offs

Kyle Myers, engineering manager, Parker Hannifin, USA

Richard Nagel, program manager, electrification, Parker Hannifin Corp, USA

In a rapidly electrifying world not every mobile application is an optimal candidate for electrification. This presentation will go over the advantages of flow-on-demand electrified hydraulics, some ideal use cases and applications where system technology improvements are needed to be commercially viable. The presentation will also dive into the importance of development testing under realistic application conditions to adequately right size a system.

2:30pm - Break

3:00pm - Considerations regarding hydraulic system architecture: The case of a telehandler

David Stevenson, vice president of sales and marketing, BH Americas, Bucher Hydraulics, USA

Conventional hydraulic systems with a central power supply generally offer significant potential for improving energy efficiency. The use of more efficient components can already yield a slight improvement, while innovative system architectures offer much greater potential. The technical possibilities are diverse, although the ideal solution always requires a careful weighing of technical and economic factors. The presentation introduces various approaches, which are illustrated using a case study involving a telehandler.

3:20pm - Scalable electrohydraulic system for skid steers

DJ O'Konek, engineering manager, Nott Company, USA

This case study presents the ground-up electrification of a skid steer, transitioning from an internal combustion engine to a high-efficiency, battery-powered architecture (displayed on the booth). The system replaces the legacy powertrain with a lithium-ion battery and electric motor driving a bent axis fixed displacement pump. System pressure is controlled through motor speed using an electronic load sensing signal, forming a variable speed motor ELS system that reduces complexity and improves energy efficiency. Electrohydraulic actuators enable precise, decentralized control of work functions, while integrated electronic controllers, displays and telematics deliver a cost-effective, high-performance solution for modern electrified mobile machinery.

3:40pm - The convergence of safety, cybersecurity and connectivity in modern fluid power machines

Andy Gray, director of sales, Scanreco, USA

Modern hydraulic machines are no longer defined only by mechanics and fluid power – they are defined by how humans interact with connected, digital control systems. As machinery grows more connected and automated, cybersecurity directly impacts operator safety and the HMI becomes a safety-critical layer that keeps the human in the loop. This session ties together hydraulics, safety, cybersecurity and connectivity into one coherent story: why keeping the human in the loop is not only a safety imperative but also a competitive advantage in next-generation fluid power machinery.

4:00pm - Advances in hydraulic cylinder linear position sensing over the years

Luka Korzeniowski, director, product development, Leggett & Platt Hydraulics, USA

For many years, off-highway OEMs and equipment operators have desired more control and automation of machine functions. Fluid power component manufacturers have been using hydraulic cylinder position sensing to enable closed-loop control. A few dominant technologies have been accepted for both internal and external cylinder linear position sensing. This presentation will discuss the history of optical, magnetostriction and Hall effect sensing, and a new technology known as integrated radar measurement.

Day 2, Thursday, August 20

Off-Highway Evolution Conference

ARCHITECTURE, AUTONOMY AND DIGITALIZATION

ROOM 13

9:00am - From safe motions to safe perception: Safety sensors enabling outdoor autonomy

Maik Graenitz, global industry and program manager, mobile automation, Sick AG, Germany
Mark Kennedy, off-highway autonomy, business lead, North America, Sick AG, USA

Automated and autonomous mobile machines demand a new level of safety to ensure reliable, safe operation under highly variable environmental conditions. This presentation highlights safety as the key enabler while demonstrating proven, field-validated solutions that build B2B credibility in demanding off-highway applications. By combining safety-rated motion control sensors with advanced perception technologies such as lidar, radar and stereo vision, selected applications illustrate the interaction of sensing, intelligent detection logic and safety functions. The audience will gain insight into how integrated, industry-proven sensor solutions balance safety, availability and performance in real-world outdoor autonomy scenarios.

9:20am - Evolving communication architectures for safe and secure mobile machines

Thilo Schumann, technical manager, CAN in Automation, Germany

Communication architectures in mobile machines are undergoing a fundamental transformation driven by increasing requirements for security, functional safety, performance and data-driven intelligence. Traditional CAN-based systems continue to play an important role, but are being extended and complemented by new concepts for secure, resilient and scalable in-vehicle communication. This presentation discusses current and emerging developments in mobile machine communication, including cybersecurity mechanisms, safety-oriented system design and evolving network architectures. It also explores the growing impact of embedded intelligence and edge processing, such as AI-based perception and data handling, on future system design and data flows within off-highway applications.

9:40am - Electronification of mobile machinery: A journey toward autonomy

Leandro Zaza, product manager, electronics, HYDAC USA, USA

In the off-highway market segment, the trend of highly automated and autonomous machines, carried out in the automotive world, is enriched with the expectation of an increase in task execution efficiency and quality while minimizing costs. Every step of the electrification process of the machine needs to be consciously taken, keeping in mind the ultimate goal. The hardware and the software components need to support all the stages of the journey toward full autonomy. HYDAC is proposing itself as a partner in this challenging journey by providing essential hardware and software building blocks.

10:00am - Perception in harsh environments

Colin Hurd, CEO, Mach, USA

Off-highway automation rarely fails in ideal conditions; it fails in the edge cases. This presentation explores how rugged autonomy platforms overcome dust, glare, vegetation occlusion and GNSS-denied environments through sensor fusion, radar, lidar and edge AI. The session highlights how Mach's perception stack enables safe autonomous decision-making in low-visibility terrain, harsh environmental conditions and safety-critical obstacle detection scenarios where conventional optical systems degrade. Real-world deployment examples across mulching, construction and agriculture provide OEMs with a practical roadmap for achieving zero-harm autonomy, improved uptime and resilient perception performance in environments where traditional systems lose reliability.

10:20am - Connected, secure, actionable: Rethinking data and diagnostics in off-highway vehicles

Cristian Palomanes, director, Cojali USA, USA

As off-highway vehicles become increasingly connected, the challenge is no longer collecting data, but trusting it, securing it and acting on it safely. This session will explore how connectivity, big data platforms and cybersecurity must work together to unlock the next generation of remote diagnostics.

10:40am - Off-road autonomy: Expanding where automation works

Michael Ruehs, director of business development, driveblocks, Na1

Recent advances in AI, sensing and onboard computing are turning local autonomy from a long-term vision into a practical engineering reality, enabling autonomous operation across a much broader range of off-road machines and operating environments. By moving intelligence onto the vehicle, local autonomy reduces dependence on site infrastructure and high-definition maps, making automation practical for quarries, smaller mines, construction sites and other dynamic off-road environments. This presentation explores why the building blocks for local autonomy are now coming together, how the technology works and how a cross-vertical software approach improves robustness while reducing development and deployment costs. It also discusses the path to scaling local autonomy, highlights the machines and applications best suited for it today, and shares insights from deployments across the civilian and defense sectors.

11:00am - Break

11:20am - Developing off-highway autonomy

Kenneth Hank, software engineer, Bosch Rexroth, USA

Developing off-highway autonomy presents two concepts of automation in off-highway machines. The first shows how modular controls, kinematic sensing and AI-driven angle detection can move machines from basic assistance functions toward higher levels of automation. The second focuses on the application of next-generation hardware to improve machine safety. The presentation highlights current challenges in sensor fusion and machine variability, then shows how targeted AI models can reduce commissioning effort and speed deployment. It closes by connecting next-generation hardware, perception and radar-based collision avoidance to safer, more productive off-highway machines.

11:40am - From assisted to autonomous: Edge level AI and radar fusion

Tim Conklin, business development, mobile market, ifm efector, USA

As off-highway equipment evolves toward higher levels of automation, reliable perception in harsh, unpredictable environments remains one of the industry's most significant challenges. Dust, fog, rain, darkness, vibration and glare routinely degrade traditional sensing approaches, making consistent real-time decision-making difficult. This session explores how edge level sensor fusion – combining AI-based vision with industrial radar – creates a robust, machine-ready perception layer that enables safer, more productive and increasingly autonomous mobile equipment. Key takeaway: robust autonomy starts at the edge – where sensor fusion happens closest to the machine, designed for real equipment, real worksites and real operating conditions.

12:00pm - Hands-on experience from safety assistance to automated driving

Tobias Moll, solution engineer, Sensor-Technik Wiedemann GmbH, Germany

As a T1 supplier for electronics, Sensor-Technik Wiedemann had the same architecture discussions around assistance functions – like vision-based safety – with several OEMs and came across the same question in each of those discussions: Do we have to build a completely new architecture for autonomous machines after solving assistance functions for the operators of man-driven machines? Therefore, Sensor-Technik Wiedemann would like to share its experiences about electronics and software architectures, vision-based functions for driving, machine safety, connectivity and secure-update mechanisms with the audience. These are presented with a clear emphasis on OEM view but also highlight considerations around retrofit.

12:20pm - Optimal E/E architecture to accelerate digital transformation of OHV

Ty Kim, chief strategy officer, KyungWoo Systech, USA

The digital transformation of off-highway vehicles (OHV) hinges on transitioning from fragmented, siloed ECUs to a centralized E/E architecture with high-performance compute. This presentation explores how consolidating advanced digital capabilities through high-performance compute modules and software-defined platforms eliminates data silos and accelerates digital transformation, enabling physical AI technology for the development of industrial off-highway vehicles.

12:40pm – Break for lunch

HMI, UX, IN-CABIN ERGONOMICS AND SECURITY

ROOM 13

1:40pm - Case study on in-cabin ergonomics, HMI, design and UX

Eric Holton, PhD, CPE, CSP, manager, human factors engineering, CNH Industrial America, USA

As machine interfaces evolve, traditional design guidance does not always provide sufficient insight into how operators perceive and interact with displays in real-world conditions. This presentation will showcase research methods developed to evaluate display readability and touchscreen usability. These methods objectively measure legibility and touch target accuracy. Drawing on recent research within complex vehicle and equipment environments, this session will highlight how these methods generate actionable data to support design decisions. Attendees will gain practical insights into creating more effective, efficient and user-centered display interfaces through evidence-based evaluation techniques.

2:00pm - Designing HMI for use, not just capability

Dominique Burkard, industrial and UX design manager, EAO, USA

As system capabilities expand, HMI complexity often grows with them frequently at the expense of usability, efficiency and safety. This session explores the capability trap and why designing from technical possibility instead of user need leads to underutilized and confusing interfaces. Drawing on real-world contexts, it outlines a shift toward user-centered design, emphasizing clarity, prioritization and intuitive interaction. Attendees will learn how to balance digital flexibility with physical control, reduce cognitive load and integrate emerging technologies thoughtfully, ultimately creating HMIs that empower operators to perform confidently in demanding environments.

2:20pm - Implementing V2L & V2G in industrial vehicles: Technical considerations

Chris Botting, manager of research engineering, Delta-Q Technologies, Canada

This session will provide a practical, engineering-driven overview of V2X technologies – V2L, V2G, V2H and V2V – with a focus on how these operating modes can be applied in industrial and off-highway vehicles. The presentation will examine the electrical requirements (voltage, current and power specs; crest and power factor; peak inrush and continuous) and system hardware choices required to support bidirectional operation, as well as the integration of AC inlets/outlets, protection devices and switchgear. The session will also address key technical challenges such as isolation, AC leakage limits, THD, transient behavior and the regulatory and functional safety considerations governing real-world deployments.

2:40pm - Securing the skies using GNSS navigation message authentication

Giri Baleri, director of product and strategy, Trimble, USA

In today's world, precise positioning is more crucial than ever. From agriculture and construction to autonomous driving and field robotics, accurate GNSS (global navigation satellite system) data is the backbone of numerous critical applications. However, the reliance on GNSS also brings vulnerabilities, particularly in the integrity and authenticity of navigation messages. GNSS jamming and spoofing have become a regular occurrence with the potential for severe consequences. During this presentation, you will learn how Trimble's multilayered defense system (navigation message authentication) has helped mitigate many of the challenges associated with high-precision positioning to enhance security and integrity.

3:00pm - Wrap-up and conclusion

*This program may be subject to change

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Day 2, Thursday, August 20

NFPA Advanced Hydraulics Conference

ROOM 12

9:00am - System-level modeling and performance evaluation of electrohydraulic systems

Bruno Dupuis, corporate accounts manager, Famic Technologies Inc., Canada

As electrification and automation continue to reshape off-highway machinery, system-level simulation is becoming essential for evaluating new concepts. This presentation shows how different modeling approaches can be used to compare conventional hydraulic functions with electrohydraulic alternatives. With practical examples built in Automation Studio, the session highlights how engineers can assess system behavior, identify efficiency gains, reduce energy consumption and explore applications such as battery integration, energy recovery and autonomous machine functions.

9:20am - Rethinking fluid power architecture: From energy transmission to data-driven systems

Gary Gotting, consultant and strategic advisor, Freelance, USA

Fluid power is shifting from passive transmission to intelligent, sensor-driven control. OEMs now demand direct, high-fidelity system insight to maximize uptime, efficiency and reliability. This session establishes real-time flow measurement as the new standard for hydraulic visibility, enabling precise diagnostics, control validation and predictive maintenance. It highlights how next-generation sensing eliminates indirect estimation and delayed fault detection, delivering actionable data at the point of use. Attendees will gain a clear framework for leveraging flow intelligence to enhance machine protection, optimize performance and extend lifecycle reliability across mobile and industrial systems.

9:40am - Treating noise at the source with hydraulic suppressors

Nathan Pedigo, head of engineering, Wilkes and Mclean, USA

Hydraulic noise is a pervasive problem in both off-highway and industrial hydraulics. As the off-highway sector becomes increasingly electrified, the problem of hydraulic noise has become more important to address. This session will cover two basic principles of noise control engineering along with a brief overview of two technologies that are available to mitigate hydraulic noise.

10:00am - Powering hydraulics with axial flux technology and smart inverters

Nathan Martinez, apps engineer, Turntide Technologies, USA

This presentation explores how axial flux motors and power electronics are reshaping hydraulics in hybrid and fully electric equipment. It will outline the high torque density requirement of hydraulics and how axial flux technology delivers this in a compact package – enabling space savings, higher uptime and performance in extremes, sharing applications. It highlights low-voltage inverters that pair with smaller electric motors to drive auxiliary hydraulic pumps. Attendees will learn how integrated motor–inverter ecosystems support tighter calibration, efficiency, shared coolant loops, smoother hydraulic actuation with low cogging torque and controlled ramp rates, speed precision, cost efficiency and packaging flexibility.

10:20am - Comparison of fluid effects in dynamometer and excavator field tests

Paul Michael, director, Milwaukee School of Engineering, USA

Six fully formulated fluids spanning two viscosity grades and three viscosity index levels were evaluated in a laboratory dynamometer and two excavators. In the excavator test, combining low-viscosity with high-viscosity index increased productivity in river stone truck loading operations. This low-viscosity/high-viscosity index combination increased leakage flow rates in dynamometer testing. Hydraulic circuit analysis is used to explain the differences in the dynamometer and excavator responses to fluid properties. These findings provide insight into how hydraulic fluid optimization can enhance machine productivity.

10:40am – Break

11:00am - Smarter hydraulics: Power-efficient, intelligent off-highway machine performance

Olaf Pippel, product manager for compact hydraulics, HYDAC, USA

As mobile and electrified machines evolve, hydraulic efficiency has become a critical driver of machine performance, operating costs, battery size, runtime and sustainability. This presentation demonstrates how equipment manufacturers can achieve significant energy savings by focusing on system-level optimization before component selection. Through energy mapping, duty cycle analysis, intelligent controls, pressure

loss reduction, gravity-assisted functions and optimized machine architectures, organizations can reduce energy consumption, lower total cost of ownership and improve machine productivity. Real-world case studies highlight measurable efficiency gains, proving that strategic electrohydraulic design delivers both competitive advantage and long-term value.

11:20am - Measuring aeration in mobile equipment hydraulic systems using sonar

James Oftelie, hydraulics engineer independent consultant, Aeration Measurement Technologies, Na1

The efficiency and reliability of mobile hydraulic systems are directly affected by the level of air contamination in the hydraulic oil. AMTech, in association with CorVera is bringing to market a technology using acoustic analysis software to measure this aeration level in operating mobile equipment, or reservoir performance validation, allowing system designers critical data to optimize their designs by maximizing efficiency and reliability. The presentation reveals the "ghost in the machine".

11:40am - Compact high-performance PCLS valve technology

Jace Birschbach, program manager, Husco, USA

Joseph Meyer, program manager, Husco, USA

Compact off-highway machines demand increasingly high hydraulic performance without the space, cost, or complexity of traditional load-sensing architectures. Compact high-performance pressure-compensated load-sensing (PCLS) valves help deliver the smallest sectional footprint in the market. This presentation will explore this unique technology, including an example with a patented series pump connection with a metered compensator bypass, enabling tailored multifunction flow sharing, smooth compensator hand-offs and improved efficiency. The platform's compact scale is enabled by a small electroproportional relief valve, allowing fully integrated electrohydraulics without sacrificing performance, durability, or system flexibility for compact machine applications.

12:00pm - Rare-earth-free ultra silent and regenerative electrohydraulic

Andres Jimenez, application engineer, Settima USA Inc., USA

This presentation explores Settima's latest electrohydraulic solutions for the electrified mobile market. The session examines the benefits of combining Settima's four-quadrant continuous-contact gear machine technology with a rare-earth-free synchronous reluctance motor to achieve ultra-low noise operation and high efficiency. The presentation will also showcase how this advanced electrohydraulic architecture enables energy regeneration, improving overall system efficiency and sustainability. A skid steer loader case study will demonstrate the practical advantages of these technologies, highlighting their contribution to quieter, more productive and environmentally responsible machine designs.

12:20pm - Beyond the part number – choosing hydraulic components that extend equipment life

Scott Mason, support and engineering manager, FluiDyne Fluid Power, USA

Choosing the right hydraulic components can make a significant difference in equipment performance, reliability and long-term maintenance costs. This presentation reviews the fundamentals of proper component selection and how those decisions can improve system life and reduce unplanned downtime. Attendees will learn what to consider when matching components to an application, common selection mistakes to avoid and the key factors that influence equipment longevity. The session includes a real-world example that demonstrates how selecting the right component can extend equipment life and improve overall system performance.

12:40pm - Load holding versus advanced motion systems for electrified machinery

Reinhold Herrman, director of business development and marketing, IFP Motion Solutions, Na1

Comparing traditional load-holding valves against advanced motion control solutions for electrified mobile equipment. Electrified machines are changing the requirements: inefficient load holding wastes battery capacity, generates heat that cuts operating range and requires oversized components. The discussion opens with standard counterbalance valves, continues to self-setting load-holding technology, then shifts to advanced motion control, including independent metering load-holding systems and an in-depth look at 4-quadrant (prime mover) systems. These closed-loop systems eliminate directional and flow valves, control motion through pump speed and displacement and regenerate energy when lowering loads, converting potential energy back into battery charge. Learning points include how load holding inefficiency drives battery sizing, heat generation and component costs in electrified machines; counterbalance valve options compared: traditional valves versus self-setting load-holding technology; how 4-quadrant prime mover systems work: pumping versus motoring across all four quadrants, with simplified circuit design; and energy regeneration when lowering loads, turning wasted potential energy into recovered battery charge.

1:00pm - Wrap-up and conclusion

*This program may be subject to change

iVT Live Zone!

Following last year's launch of the iVT Live Zone, we are delighted to announce its return for 2026. This interactive content stage is located right on the expo floor. Designed as a vibrant, pop-up-style zone, iVT Live Zone is where industry pioneers, thought leaders and enthusiasts come together to debate, discuss and shape the future of smarter off-highway vehicles. This hub of dynamic conversations and groundbreaking ideas will focus on debatable topics and forward-thinking discussions. This allows expo attendees to delve deeper into the realms of autonomy, alternate fuels and digitization within the off-highway vehicle industry.

THE LIVE ZONE WILL FEATURE PRESENTATIONS FROM INDUSTRY-LEADING COMPANIES INCLUDING:

Bonfiglioli – We engineer dreams
John Deere
AMTech
CIA
Elemental Motors
iVT International – Industrial Vehicle Technology
driveblocks
Vogel & Plötscher

Scan the QR code to view the full program:

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OFF-HIGHWAY VEHICLE TECHNOLOGY

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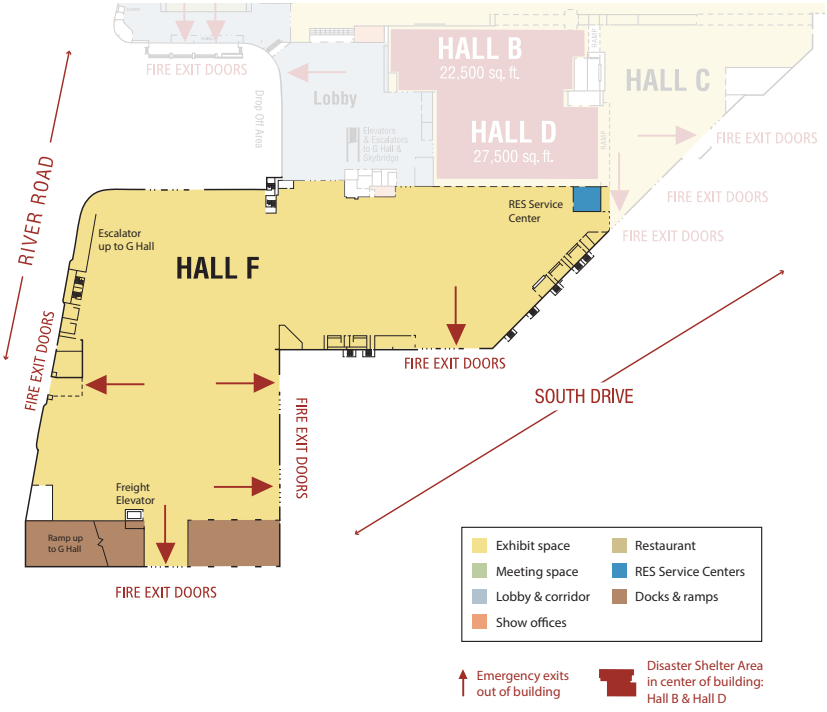

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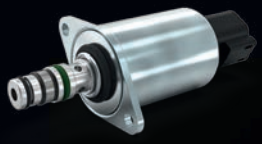
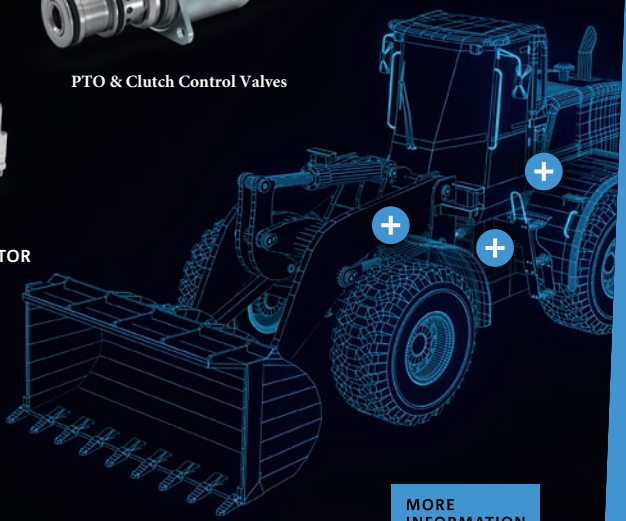


Main Control Pilot Valves

PTO & Clutch Control Valves

ELECTROMECHANICAL ACTUATOR



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