

Gear and Bearing Systems

This tour was created as a supplement to an MPT Expo course, providing suggested stops for those who want to learn more about this topic from vendors on the show floor.

Integration and Trade-Offs in Gear and Bearing Systems

Tuesday, October 21 | 12:00-4:00 pm

Registration for this course is available at https://motionpowerexpo.com/education-courses/

We suggest the following stops:

Helios Gear Products | Booth 137

South Elgin, IL http://heliosgearproducts.com

Helios Gear Products is the North American factory sales and technical support organization for global gear machine and tool manufacturers. Gear manufacturers work with Helios for industry-leading service and support backed by a dedicated team of engineers to ensure each application is profitably productive. Manufacturers in the automotive, aerospace, construction, energy, and medical markets rely on Helios manufacturing solutions every day.

Klingelnberg America | Booth 177

Saline, MI http://www.klingelnberg.com

The Klingelnberg group is a world leader in the development, manufacture and sale of machines for bevel gear and cylindrical gear production, measuring centers for gearing and axially symmetrical components as well as customized high-precision gear components. The Company's products are used by customers in automotive, truck, aircraft, agriculture, construction, power tool and marine industries and by a diverse set of customers serving various industrial equipment markets.

United Gear & Assembly, Inc. | Booth 212

Hudson, WI http://www.ugaco.com

United Gear and Assembly offers a totally integrated gear company. UGA manufactures precision gears and shafts for engines, generators, transmissions and drive trains used by OEM manufacturers world-wide, including custom gear and shaft products designed to meet rigid specifications. UGA produces products that include: parallel axis gears, bevel gears, helical gears, cluster gears, splined shafts, splines, pinions, and sprockets. Heat Treating capabilities include: batch carburizing, continuous carburizing, gas nitriding, carbonitriding, induction hardening, throughhardening, normalizing, stress relieving, tempering, press quench, and a complete metallurgical laboratory. United Gear is IATF 16949 & ISO 9001 certified.

CGI, Inc. | Booth 311

Carson City, NV http://www.cgimotion.com

Since 1967, CGI has consistently been providing customers with exceptional craftsmanship and outstanding customer service. Known as a world-class gear and precision component manufacturer, CGI also offers design and manufacturing of motion control subassemblies. Our team of highly skilled and diverse professionals will take your product from design through assembly.

EMAG | Booth 329

Farmington Hills, MI http://www.emag.com

The EMAG Group is one of the few suppliers of manufacturing systems that **cover the whole process chain**, from soft to hard machining. Access to a wide range of technologies (turning, drilling, milling, gear cutting, grinding, laser welding, ECM deburring, PECM machining, induction hardening and automations) allows EMAG to implement complete process chains not only for the manufacture of gearbox, engine and chassis

components but also of components for the non-automotive sector. A company steeped in tradition with global headquarters in Salach, Germany, the EMAG Group capitalizes on the collective knowledge of its technology companies to offer modular and custom innovative manufacturing systems with world-class precision.

Freudenberg-Nok Sealing Technologies | Booth 510

Plymouth, MI http://www.fst.com

In dynamic power transmission, power and kinetic energy are directed to where they are needed. Industrial gear units convert torque and speed so that systems can perform their function perfectly. Mechanical power transmission also takes place at many other points in technical systems, in bearings, clutches, axles or brakes, for example. Such operationally relevant functions require reliable sealing solutions. Here, Freudenberg Sealing Technologies' uniquely broad range meets even the highest demands. Special developments in the premium segment stand out, such as Modular Sealing Solutions (MSS) or highly wearresistant FKM materials. The task of this high-tech seal is to combine increased reliability and service life with increased efficiency. Reliable and efficient mechanical drive components make groundbreaking developments in industry and agriculture, advances in infrastructure and transportation, and global megatrends, like digitalization, possible.

Gleason Corporation | Booth 529

Rochester, NY http://www.gleason.com

Gleason is a global leader in gear technology.
Gleason's "Total Gear Solutions" range from gear and transmission design software to the development and production of gear manufacturing machines and related accessories, gear metrology equipment and automation systems. Gleason products are used by customers in the automotive, commercial vehicle, aerospace, agricultural, mining, energy, construction, power

tool, marine and many other industrial equipment markets.

GWJ Technology GmbH | Booth 566

Braunschweig, Germany http://www.gwj.de

For more than 25 years, GWJ Technology has been a trusted partner in mechanical engineering. Our software supports engineers, designers and technicians worldwide with precision, innovation, and ease of use – truly "Made in Germany."

Our broad product range includes standard software for shafts, gears, bearings and other machine elements, the web-based eAssistant and desktop TBK, seamless 3D CAD integrations, and SystemManager for complete gearbox design as real multi-shaft systems.

With GearEngineer, we provide advanced solutions for gear production via 5-axis milling, forging, molding or additive manufacturing – based on accurate digital twins.

Flender Corporation | Booth 666

Elgin, IL http://www.flender.com

Why Flender? Flender Corporation is a leading global supplier of mechanical drive systems and has earned a reputation for the highest performance, innovation, quality, and reliability of mechanical components. Flender offers a wide variety of gear units, couplings, and associated services focusing on critical industries such as wind power, cement, mining, iron/steel, power generation, and conveyor technology. Flender products and services combine the latest technology with extremely high quality and have been reliably providing the optimal transmission of power for more than 120 years.

Columbia Gear Corporation | Booth 719

Rochester, NY http://www.gleason.com

Columbia Gear Corporation is a premier supplier of custom gearing and power transmission products including precision spur and helical gears, splined gears and shafts and complete gearboxes. We are continually adapting to today's customer needs. We continually analyze manufacturing processes, build upon proven design solutions, streamline production and assembly schedules — always taking ground gearing quality to higher levels.