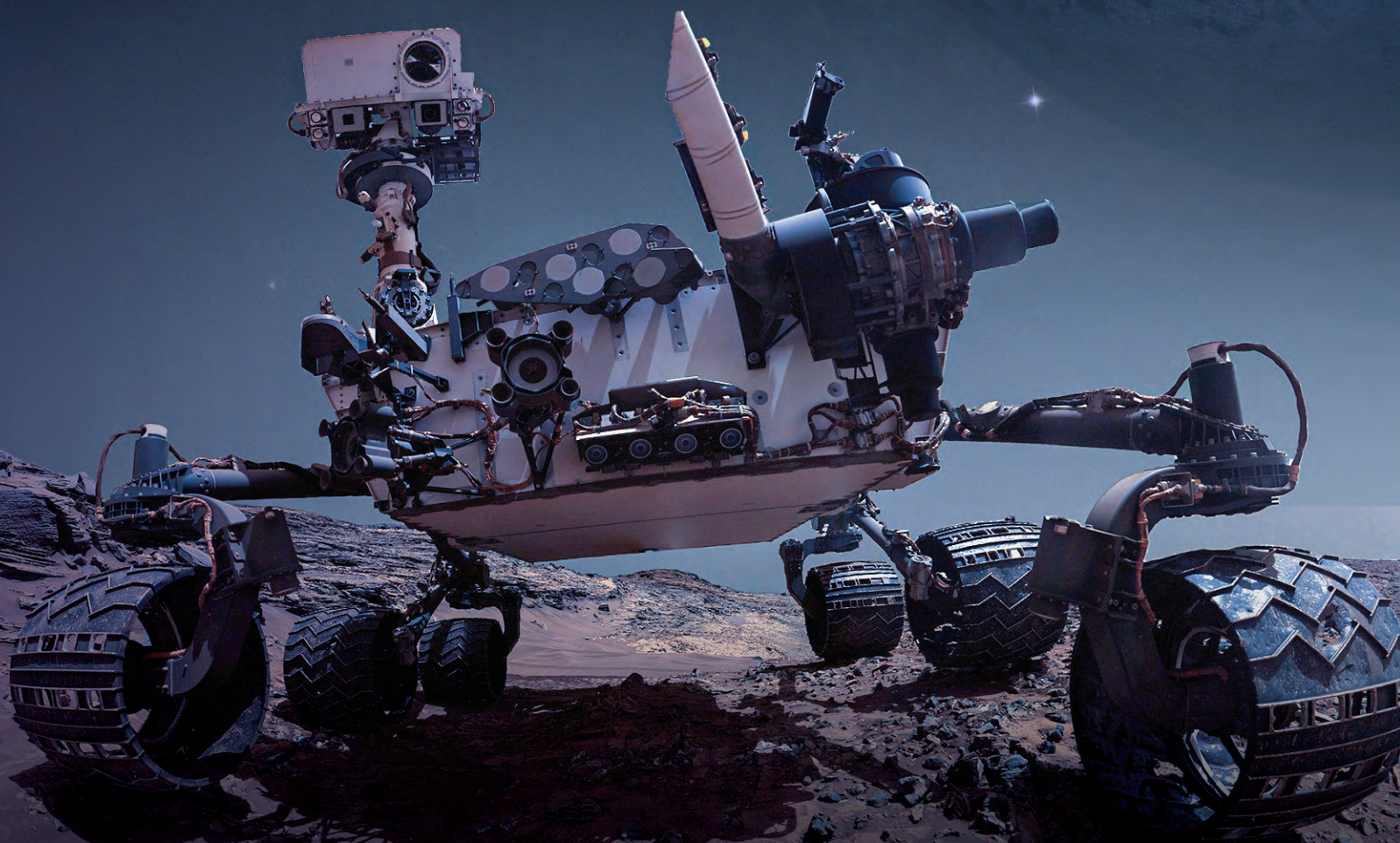


ENGINEER THE
EXCEPTIONAL



KOLLMORGEN

KOLLMORGEN

If You Can Think It, We'll Help You Build It

We believe in the power of motion
and automation to create a better world.

From improving industrial safety to advancing economic opportunity, from maintaining the health of a warming planet to restoring the well-being of a newly diagnosed patient, enterprises around the world are seeking smarter, simpler and more powerful solutions.

With Kollmorgen as a partner, engineers like you are changing how solar energy is created. How agriculture is harvested. How new worlds are explored, from deep oceans to deep space. Forward-thinking designers are improving healthcare and giving the disabled new capabilities. They're helping denser populations live comfortably together on a finite planet.

Your calling is to solve problems and make a meaningful difference. We'll help you create more ambitious machines, vehicles and robots. Delivering more capable motion. Engineering with more confidence. Bringing exceptional new possibilities to the world.



More Ambitious Machines and Vehicles

Progress in motion accelerates progress in life. As an engineer, the possibilities you can envision and actualize are fully dependent on the power, torque, precision and responsiveness available to you. That's why Kollmorgen has chosen to pioneer the world's most advanced motion and automated guided vehicle solutions, making the highest performance easily accessible to engineers who want to make a real difference.



Progress Can't Wait

Smart Factories + Smart Warehouses

Shoppers have come to expect practically limitless product choices available for next-day or even same-day delivery. The explosive growth in ecommerce means that manufacturing and warehousing must become smarter and more tightly integrated.

Advanced motion systems and automation controls allow manufacturers to respond quickly to changing product demands and to ship efficiently to widely distributed warehouses located closer to end customers. Advanced automated guided vehicles (AGVs) provide the flexibility and speed to handle ever-changing product mixes and surging picking volumes.



The Kollmorgen Difference

Kollmorgen solves the world's toughest motion and automation challenges, freeing you to design more ambitious machines, vehicles and robots that redefine what's possible.

Superior motion performance.

Our servo motion systems provide unrivaled power density, torque, responsiveness, efficiency and control in a more compact footprint, delivering the performance that makes exceptional machines possible.

AGV control for any application.

Kollmorgen's modular, scalable control and navigation solution simplifies precise control of AGVs and mobile robots. With our hardware, software and navigation technologies, plus our quick-start onboarding process, you can keep your design focus on advanced application features.

Comprehensive product lines.

We offer everything from motors and drives to linear actuators, gearheads, motion controllers and complete automation control. Kollmorgen products are available in hundreds of thousands of standard configurations, with customizable options to suit virtually any motion requirement. Kollmorgen products belong to a complete family of solutions for engineering nearly any machine, process or application involving motion.



More Capable Performance

At Kollmorgen, we're committed to helping you bring your machine to reality exactly as intended. We believe your motion system should be designed to fit your machine, not the other way around. You may be looking to upgrade existing machine or vehicle performance, or you may be embarking on an all-new project to achieve engineering capabilities never seen before. Whatever your goals, count on Kollmorgen to help you achieve breakthrough performance.



Progress Can't Wait Moving Ever Forward

The implantable heart pump and surgical robots. The Mars Rover and the International Space Station. The Segway transporter and the driverless vehicle. Kollmorgen motion and automation technologies drive these and many more innovations that make the world a better place.

For more than 100 years, we've been moving the possibilities of advanced motion ever forward. Our newest contribution advances our leading servo technology to achieve unprecedented levels of power, torque, efficiency and control. Welcome to the new generation of motion: the Kollmorgen 2G Motion System.



The Kollmorgen Difference

Kollmorgen provides more capable technology and expertise to help you clearly differentiate your designs from the competition.

Simply powerful motion.

Our 2G Motion System sets new standards of performance with no increase in size or change in mounting. Modular designs with virtually unlimited standard and custom options enable simple implementation of extraordinary application possibilities.

Simply amazing automation.

Our AGV solution provides one hardware, software and navigation platform designed to simplify design and deployment of any type of AGV or robot. It's the one solution set and knowledge base needed to achieve smart automation across any factory or warehouse.

Real expertise.

With Kollmorgen, you have direct engineer-to-engineer access to the designers who created the motion system itself. Our co-engineering services help ensure a perfect fit and optimum performance for your application.

Advanced tools, training and support.

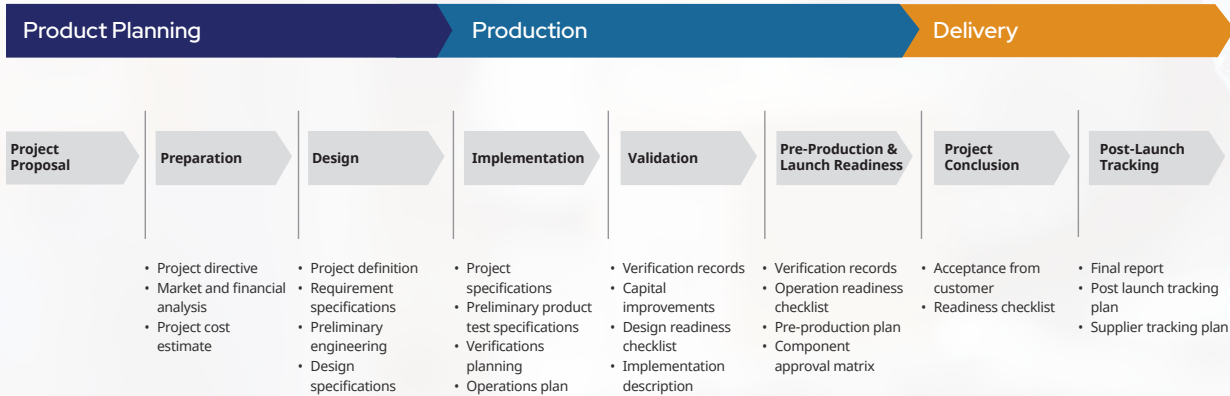
We provide the training, design tools, motion and automation programming tools, help desk support and field services you need to succeed, from concept through production and deployment.



More Confident Engineering

Design machines, vehicles and robots with confidence. Kollmorgen has been pioneering the most advanced motion technologies for more than 100 years. Driving progress in environments as diverse and extreme as the ocean floor and the frontiers of space. Helping to protect and improve lives from the battlefield to the operating table. Fostering commerce from energy production to pharmaceuticals, food and beverage manufacturing, packaging and converting, printing, and much more.

Co-engineering: rapid optimized solutions



Progress Can't Wait

Meeting Your Toughest Challenges

We'll take your custom motion system from initial concept through design and into volume production in a surprisingly short time. Throughout, we'll keep you apprised of what's required, what it will cost and what to expect. You're always in charge of modification approvals, while we ensure a smooth transition from prototypes to sustainable and cost-effective manufacturing.

It's a structured development process, built on uncompromising co-engineering excellence, that delivers innovative solutions designed to meet virtually any need. With minimal development time, optimal performance and maximum value, we'll help you meet your most difficult challenges and advance your competitive position.



The Kollmorgen Difference

Kollmorgen instills confidence in design, with industry-leading innovation and a heritage of trusted reliability.

Trusted reliability.

Best-in-class Kollmorgen products have been proven in the harshest environments, under the heaviest operating conditions, and in applications where success is the only option—from the most delicate to the most powerful tasks.

Global supply, expertise and support.

With our global footprint of manufacturing, design, application and service centers—coupled with industry-leading quality and compliance programs—you always have access to dependable supply, co-engineering expertise, and personalized support that no other partner can provide.

Continuous progress.

We stay on top of the emerging trends and needs in every industry we serve. We seek out the most talented people and the most promising technologies. We continuously invest in research and development to bring people, ideas and opportunities together to drive real progress.

Proven results.

More than 100 years of technology and business leadership. More than 1 million AKM motors deployed. More than 30,000 vehicles placed into operation, engineered by more than 70 partners using our NDC automation and navigation technology. These results and more establish Kollmorgen as the leader—providing the innovations, resources, stability and commitment you need in a lasting partnership.



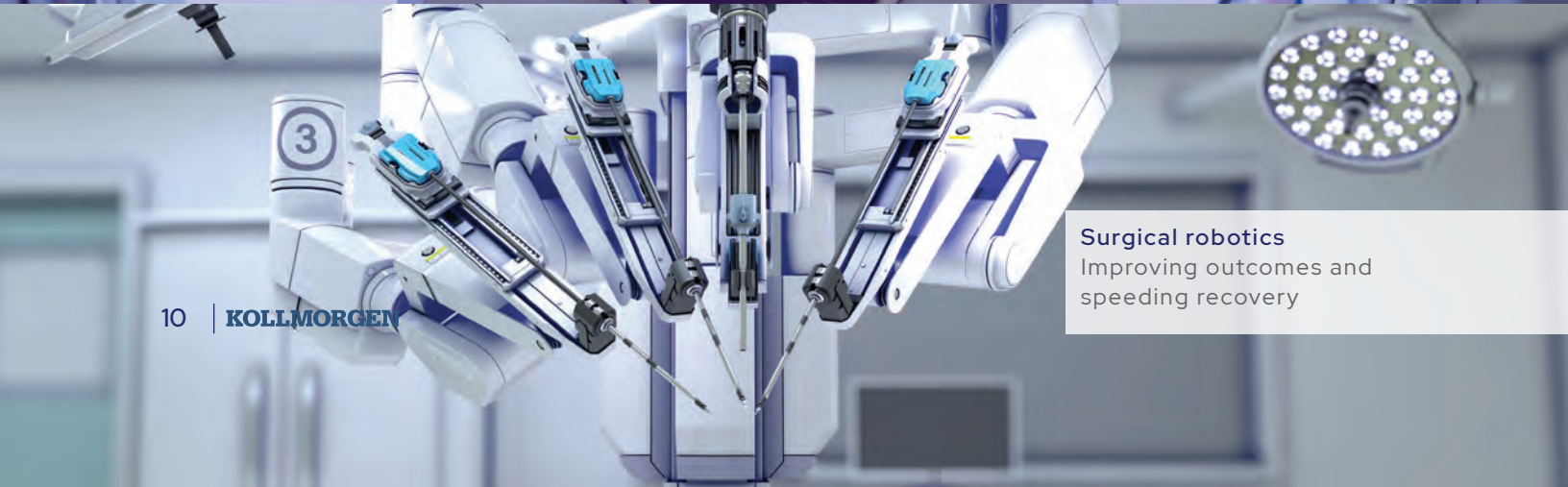
Factory automation
Taking machine productivity to the next generation



Automated guided vehicles
Parking cars automatically at 43% greater density



CT and MRI machines
Maximizing precision for confident diagnosis



Surgical robotics
Improving outcomes and speeding recovery



Exceptional Successes

Kollmorgen has made a difference for customers around the world who have engineered exceptional solutions to the most difficult and pressing problems. Here are just a few examples.

Accelerating Progress

To compete effectively, manufacturers need to continually improve quality and productivity while controlling costs. Kollmorgen's 2G Motion System helped a major manufacturer of PET bottle blow-molding machines increase throughput by 23%. With no need for larger motors and drives, the system provides 30% greater torque to enable faster indexing without requiring a costly machine redesign. The machine is now the #1 bottle producer in the world.

Improving Life Together

Cities are more efficient and sustainable when populations live in closer proximity. Supporting increased density requires creative problem solving. Yeefung, a Kollmorgen AGV partner in China, designed an autonomous robot that fits cars into complex and irregular parking garages in a way that increases capacity by 43% compared to a fixed automation system.

Enhancing Medical Diagnosis

In CT scanners and MRI machines, microns and milliseconds make the difference between blurs and artifacts versus the image clarity needed for accurate diagnosis. Kollmorgen motion systems provide the acceleration, torque and precision required, for example, to enable a 320-slice CT scanner to produce a detailed 3D model of the heart, coordinating with ECG data to capture images only while the heart is at rest between beats.

Speeding Patient Recovery

For more than 20 years, Kollmorgen has provided motion systems for the leading surgical robotic system, improving outcomes and speeding recovery in hundreds of thousands of urologic, gynecologic, transoral, and other procedures. Today, Kollmorgen is still helping to advance the art and science of minimally invasive surgery. Through precise coordination of controls, robotic arms, cameras, and instruments, surgeons can do their best work while minimizing operative trauma, infection risk, postoperative pain and healing time.

About Kollmorgen

Kollmorgen has more than 100 years of motion experience, proven in the industry's highest-performing, most reliable motors, drives, linear actuators, gearheads, AGV control solutions and automation platforms. We deliver breakthrough solutions that are unmatched in performance, reliability and ease of use, giving machine builders an irrefutable marketplace advantage.

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www.kollmorgen.com

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