



Aerospace & Defense Solutions

KOLLMORGEN

Kollmorgen Standard Solutions

TBM™ Series Frameless Motors

Kollmorgen's TBM Direct Drive Frameless Brushless Motor technology is optimized for applications that require high power in a compact package with minimized weight and inertia. Our tailored solution options can help you differentiate your next design.

- Three frame sizes
- Multiple stack lengths per frame size
- Multiple windings per frame/stack combination
- Hall sensor option
- Multiple thermal sensors options
- Stainless Steel yokes for maximum corrosion protection
- RoHS compliant
- Short lead time
- Webtool resource for customer system performance curve generation
- Ideal design for modular machines and flexible manufacturing systems

KBM™ Series Frameless Motors

The KBM™ Frameless Brushless Motors are high performance motors that can be directly embedded into your application eliminating excess bulk and weight. With a large selection of standard motors—plus our ability to quickly and cost-effectively incorporate optimized modifications—you can choose an exact-fit motor that provides the highest performance in the most compact space.

- Fully encapsulated stator windings
- 155°C internal winding temperature continuous capability
- PTC thermistor (avalanche-type) overload protection
- Fail-safe bands over rotor magnets
- RoHS compliant
- UL and CE agency facilitation
- Optimizations include rotor hub dimensions, stack length, diameter, mounting features, windings, insulation, connection type and much more
- Hall sensor option

AKM® Servo Motors

Kollmorgen offers the industry's most advanced servo motors in configurations and torque ranges to meet virtually any specification. AKM Servo Motors combine high performance and efficiency that allows you to design a smaller and more compact solution. AKM Servo Motors offer unprecedented choice and flexibility, such as optional 24 volt and 48 volt windings, and optimized modifications.

- 8 frame sizes, 28 frame/stack combinations
- Speeds up to 8,000 RPM
- 75 VDC; 120, 240, 480 VAC windings
- A wide variety of feedback devices, mountings and seals
- Direct mate to most Kollmorgen servo drives
- Windings are rated at 100°C rise over a 40°C ambient while using 155°C (class F) insulation materials
- cURus, CE Compliant, UL Recognition

Ready to Get Started?

Use our online design tools -- product selector, 3D modeler, performance curve generator - to find the right products for your application.

www.kollmorgen.com



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Rely on Kollmorgen

We partner with you for innovative solutions.

The Aerospace and Defense industry has inspired innovation after innovation in the quest for an edge in operations, as well as in security and information exchange. Kollmorgen's reputation for excellence and rapid development has led to a range of solutions that help our clients push the envelope of what's possible in this arena. Our strength lies in the ability of our engineers to work side-by-side with your technology experts to solve unique challenges through-out the phases of discussion, design, prototyping and full-rate production.



Because Motion Matters

Collaboration

Optimized fit and performance - every time.

Our collaborative design approach builds trust as it produces results quickly. We focus on what's possible, while balancing time, budget, and maintaining quality. From unmanned submersibles to space exploration and remote weapons stations, our motion experience can be your competitive advantage.

Expertise

The knowlege to innovate.

A diverse world creates unique challenges. Our global team of experienced technology experts partner with you on the problem at hand because we've been solving mission-critical motion problems for decades.

Kollmorgen's long history of success reaches back to the 1950s when we collaborated with MIT to develop stabilized platforms for inertial guidance systems. Still today, our unmatched expertise and commitment to innovation makes us a leader in the development and deployment of proven technologies.

Kollmorgen Commitment

Your trusted partner.

At the core of this commitment to excellence is our kaizen-based Altra Business System that focuses on continuous process improvement and operational excellence.

Kollmorgen's dedication to quality and innovation begins with open communication from our first conversation through full life cycle support from one generation of a solution to the next.

Kollmorgen is your trusted and proven partner for innovative motion solutions in every mission critical application





Robotics

Opportunities to put new robotic-enabled capability into the hands of soldiers and hazardous duty personnel continue to emerge. Kollmorgen motors deliver precise, smooth, reliable motion in a compact form factor to ensure success.



Missiles/Smart Munitions

Target Acquired. When accuracy and dependability are critical, Kollmorgen motion technology ensures mission success. Our solutions are designed to withstand extreme environmental challenges and provide high performance in a compact form factor.



Remote Weapon Stations

Remote weapons stations are often designed to allow soldiers to remain in the relative protection of their vehicle. Precise movement and accurate systems are critical to the success of these stations.



Unmanned Systems

As technology blurs the line of how humans and machines interact, we see an opportunity to put new capabilities in the hands of soldiers hundreds of miles away from the action.



Naval Solutions

The global landscape continues to stretch the possibilities of even the most advanced technologies. Our expertise in motion control enables us to boost the capabilities of onboard systems from sonar to hatch operations and beyond.



EO/IR

We provide motor technology that enables smooth, accurate and stable motion to position image sensors and long range detection systems. Integrated into thousands of systems worldwide, Kollmorgen driven platforms include UAV, aircraft, land vehicles, and shipboard systems.

About Kollmorgen

Since its founding in 1916, Kollmorgen's innovative solutions have brought big ideas to life, kept the world safer, and improved peoples' lives. Today, its world-class knowledge of motion systems and components, industry-leading quality, and deep expertise in linking and integrating standard and custom products continually delivers breakthrough motion solutions that are unmatched in performance, reliability, and ease-of-use. This gives Defense equipment builders around the world an irrefutable marketplace advantage and provides their customers with ultimate peace-of-mind.



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Because Motion Matters™

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Our expertise makes us a unique motion partner who understands the business and technical needs of the aerospace and defense industry.

Learn more at www.kollmorgen.com/aerospace-and-defense

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