

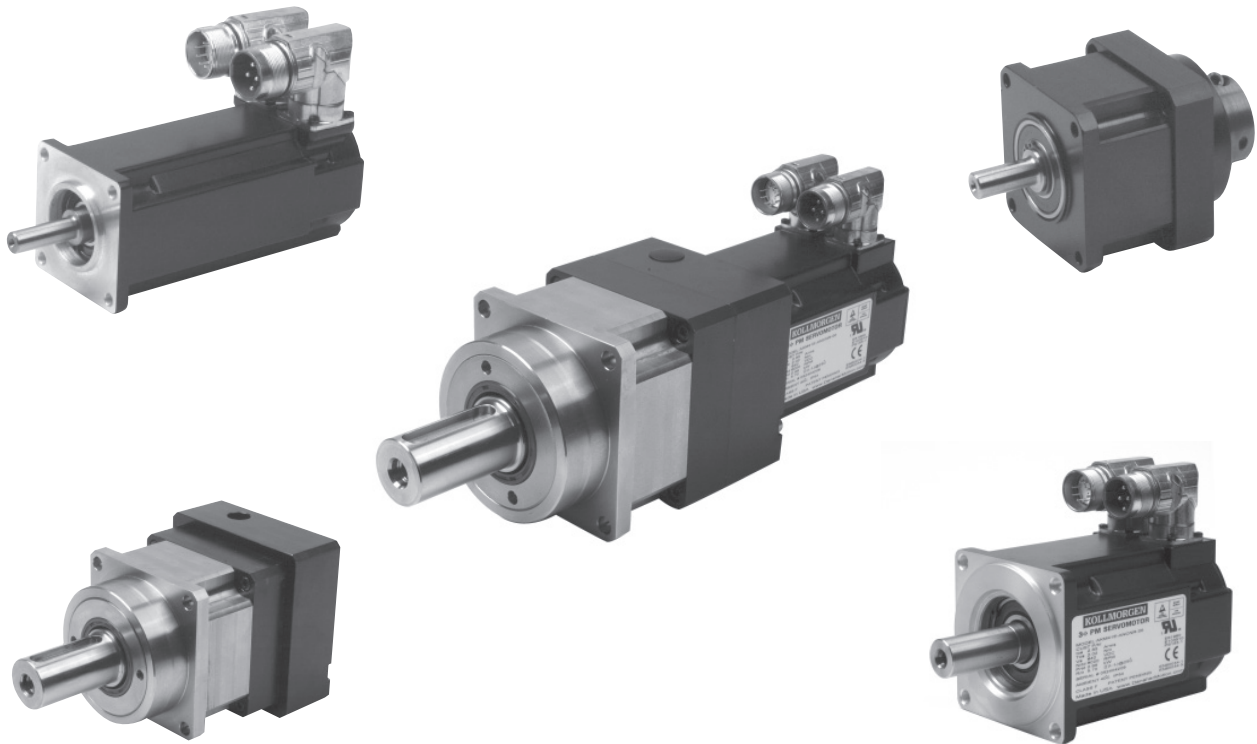


## AKM Gearmotors

### AKM Gearmotors, the new standard in performance, reliability and convenience.

Combining the industry-leading torque density from AKM servomotors with the proven performance of Micron TRUE planetary gearheads produces a single factory integrated solution. Built for high torque applications, AKM gearmotors offer the precision and performance required by the most demanding motion control environments.

- Easy selection of factory tested combinations, no matching of motor and gearhead required
- Single unit design for quick delivery of ready-to-mount system units
- Factory integrated and tested design eliminates assembly errors
- Save assembly time and get machines up and running faster
- Gain valuable machine space with the highest torque density gearmotors available



### Motion Control Applications

- Converting
- Printing
- Semi-conductor wafer fabrication
- Coating and film processing
- High speed electronic assembly
- Injection Molding
- Packaging
- Pedestal azimuth and elevation



## AKM Gearmotors

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For high-torque applications, our performance gearmotor solutions offer incredible value. AKM servomotors attached to Micron TRUE Planetary gearheads create the industry leading system that sets the standard for torque value and performance.

### AKM Series Brushless Gearmotor World Class Performance delivered

Typical Issues	AKM Gearmotor Solution
Project planning and multiple lead times	Let us solve your system needs within the standard lead-time of the motor. One system solution with one lead-time.
Single source your system solution	Thomson provides a breadth of gearmotor systems with one Part Number to order and maintain.
High demand applications with torque limiting systems' speed performance	AKM's broad torque band allows higher speeds to be realized while providing precision speed regulation at the gearmotor output shaft.
Design of mounting / alignment hardware	AKM gearmotors offer one component to mount without the need for managing adapters between the motor and gearbox.
Imperfect alignment of gearbox and motor causes reduced performance and premature failure	AKM gearmotor eliminates alignment issues by combining, testing and qualifying each system at the factory.
Compliance in motor mounting to the load	AKM servomotors feature high motor-dynamics that are optimized through the torsional stiffness of the Micron TRUE gearhead.
Servo tuning difficulty due to backlash and compliance of gearbox	Micron TRUE planetary gearheads offer industry-leading accuracy (low backlash).
Increased backlash due to wearing gears	Micron TRUE planetary gearheads offer 100% load sharing over the hardened gears.
Motor bearing failure due to radial loading	Micron TRUE planetary gearheads resultant force on motor bearing is zero!
Gearbox lubrication and maintenance	Micron TRUE gearheads are designed to self-lubricate.



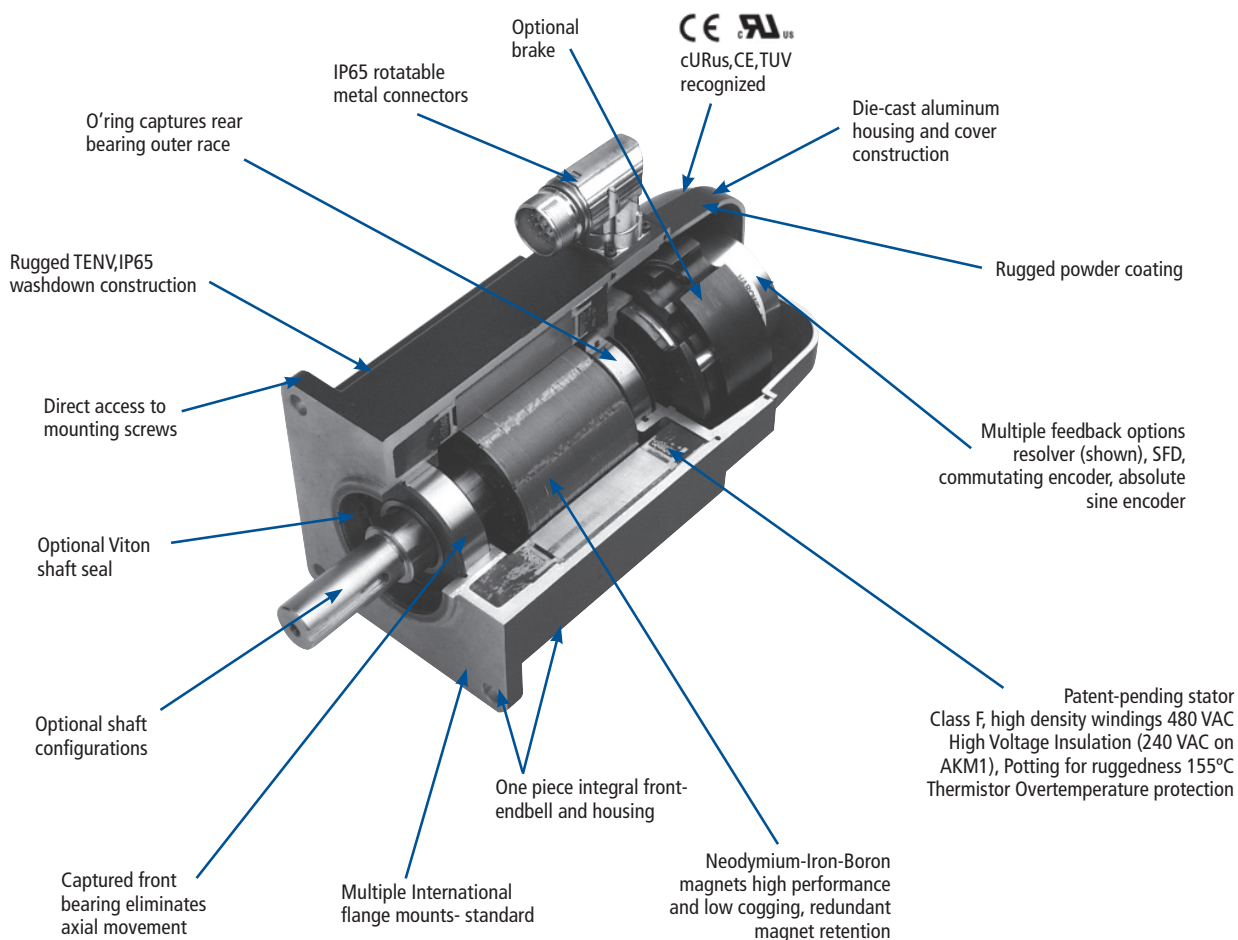
## AKM Brushless Servomotors

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The AKM servomotors provide an unprecedented choice and flexibility from a wide range of standard products so you can select the best servo motor optimized for your application requirements. AKM servomotors offer the best of both worlds – the exact specifications of a custom solution with the faster delivery times and lower cost of a standard catalog product.

#### AKM Brushless Servomotors

- Best in class torque density with wide variety of stack/frame combinations
- Gearmotors available in 19 different frame/stack combinations
- Low-cog, low-harmonic distortion electro magnetic design
- More than 14 feedback variations of: resolver, SFD, commutating encoder, absolute sine encoders (single-turn and multi-turn) in the standard offering
- Single piece flow manufacturing providing faster delivery times on any arrangement of options
- Optional Teflon shaft seal (Motor Only)



**Gearheads**

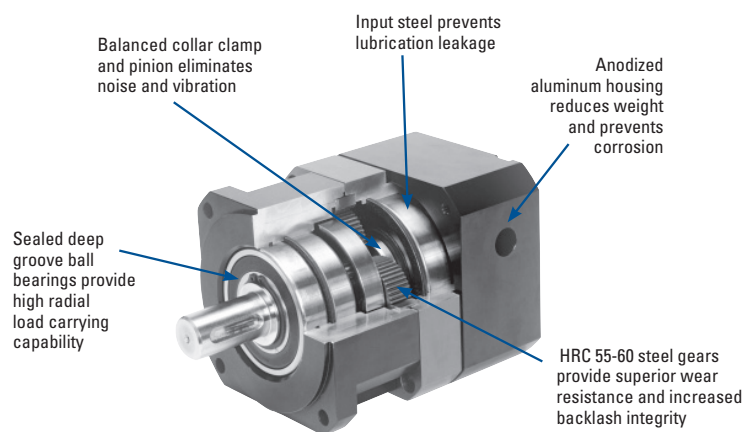
**Gearheads**

MICRON offers the largest selection of TRUE planetary gearheads in the world. The gearmotor product line includes both the NemaTRUE and the ValueTRUE gearheads, ranging in frame size from 60 mm to 142 mm and ratios from 3:1 to 25:1. The Helical Crowned TRUE Planetary design is industry leading in smoothness, torque and precision.

**Standard Line featuring NemaTRUE Gearheads**

The new Standard Line AKM Gearmotor sets the standard in torque per dollar and performance. Offered in ratios from 3:1 to 25:1, the Standard Line features the NemaTRUE planetary gearhead with its high precision 13 arc minutes of backlash.

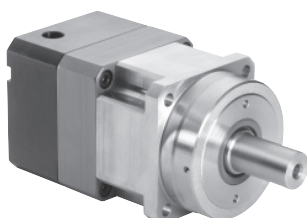
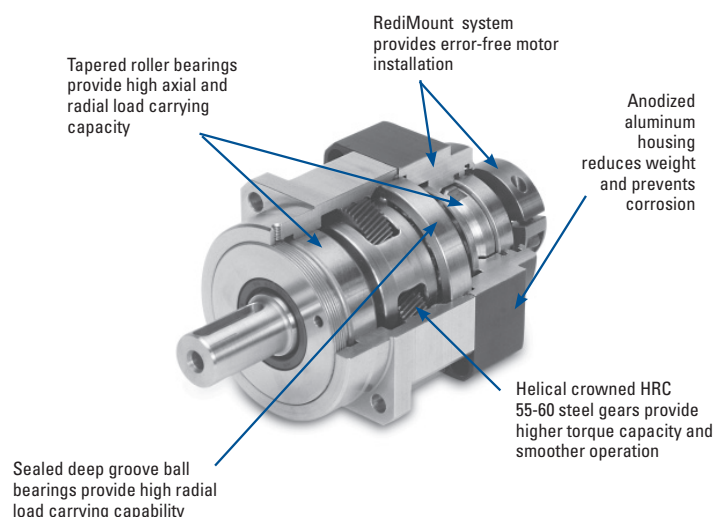
- True Planetary Gearing Design
- Standard with Micron's RediMount system
- 4 Available Frame Sizes
- High Precision: 13 arc-min of backlash
- High Torque Capacity: Up to 5860 lb-in
- High Radial Load Capacity: Up to 2000 lb
- Ratio Availability: 3:1 to 25:1



**Precision Line featuring ValueTRUE Gearheads**

The new Precision Line AKM Gearmotor raises the bar in performance and precision. For your most demanding applications, the Precision Line features the ValueTRUE planetary gearhead with its ultra-high precision 4 arc minutes of backlash.

- Helical Crowned True Planetary Gearing
- Standard with Micron's RediMount system
- 4 Available Frame Sizes
- Ultra Precision: 4 arc-min of backlash
- High Torque Capacity: 8280 lb-in
- High Radial Load Capacity: Up to 10,000 lb
- Ratio Availability: 4:1 to 25:1



www.thomsonlinear.com