



Powerful, smooth, accurate motion for satellite ground stations

For reliable communications between ground stations and satellites, specify motors that can handle the largest tasks in extreme conditions.

### Choose rugged, precise motion solutions

- **Responsive, precise antenna control.** Choose frameless and housed servo motors with the torque and speed required for reliable azimuth and elevation control of small to massive antennas.
- **Reliable motion in all conditions.** Count on flawless performance in the harshest environments — an important consideration as ground station networks proliferate around the world.
- **Solutions for every application scale.** Our high-performance frameless motors are available in form factors as small as 25 mm OD to custom solutions more than 2 meters OD.

### Expect no-compromise engineering and production

- **An exact application fit.** As a core competency, we have the unique ability to modify standard products or develop custom solutions for highly specialized aerospace applications.
- **Faster attainment of your engineering design.** We can typically prototype and deliver your motion solutions within just a few weeks, anywhere in the world.

### Count on consistent, scalable supply

- **Assurance of availability and quality.** With our lean manufacturing processes and industry-leading quality programs at our AS9100 certified Main Street manufacturing site in Radford, Virginia, deliver specialized motors in the quantities you require now and in the future.
- **Long-term regional support.** Our global footprint of manufacturing, design, application and service centers provides all the support you need, anywhere in the world.

## Kollmorgen Servo Motor Application Examples



### Kollmorgen Motors for Ground Station Control

Choose from a broad range of frameless and housed motor solutions with sizes and performance characteristics to meet any application requirement, including azimuth and elevation control for small to massive antennas and other subsystems.

	Ground Stations	Space Vehicles	Satellites	Deep Space Applications	Space Habitation	Planetary Surface Applications
Motors	EKM, KBM, TBM, RBE, TBM2G	KBM, TBM, RBE	KBM, TBM, RBE, TBM2G	KBM, TBM, RBE	KBM, TBM, RBE	KBM, TBM, RBE
Temp	-51° C to 80° C	-126° C to 149° C	-65° C to 125° C	-130° C to 149° C	-130° C to 149° C	-130° C to 149° C
Location	Terrestrial	LEO to deep space	LEO	Deep space	LEO to deep space	Extraterrestrial surface applications
Bus Voltages	28-650 Vdc	28-325 Vdc	28-100 Vdc	28-200 Vdc	28-200 Vdc	28-200 Vdc
Typical Application Life	15+ years	10+ years	3-5 years	30+ years	30+ years	30+ years
Typical Applications	<ul style="list-style-type: none"> <li>• Azimuth / elevation</li> <li>• Recovery support</li> </ul>	<ul style="list-style-type: none"> <li>• Cryogenic cooling pumps</li> <li>• Reaction wheels</li> <li>• Torque tools</li> <li>• Robotic arms</li> </ul>	<ul style="list-style-type: none"> <li>• Cryogenic cooling pumps</li> <li>• Reaction wheel and gyroscope motors</li> <li>• Solar panels</li> <li>• Arrays</li> </ul>	<ul style="list-style-type: none"> <li>• Cryogenic cooling pumps</li> <li>• Reaction wheels</li> <li>• Torque tools</li> <li>• Robotic arms</li> </ul>	<ul style="list-style-type: none"> <li>• Cryogenic cooling pumps</li> <li>• Door actuators, torque tools</li> <li>• Robotic arms</li> </ul>	<ul style="list-style-type: none"> <li>• Cryogenic cooling pumps</li> <li>• Robotic arms</li> </ul>

### About Kollmorgen

Kollmorgen, a Regal Rexnord Brand, has more than 100 years of motion experience, proven in the industry's highest-performing, most reliable motors, drives, linear actuators, 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.