

# Solutions for the **Aerospace Industry**

## **Supplying Precision Mechanical Components and Assemblies**

- Quality Products
- Technical Experts to Help with Your Design
- Cost Effective Sub-Assembly Solutions

A close-up photograph of a pilot's right arm and hand, wearing a white short-sleeved shirt and a black watch, resting on the control yoke of an aircraft. The background shows the cockpit instrument panel with various gauges, dials, and digital displays. The lighting is focused on the pilot's hand and the controls, creating a professional and technical atmosphere.

# What Can Berg Do For You?

## Ease of doing business:

- Wide variety of sizes
- Expedient quoting

Phone: **1-800-232-BERG** or **(414) 747-5800**

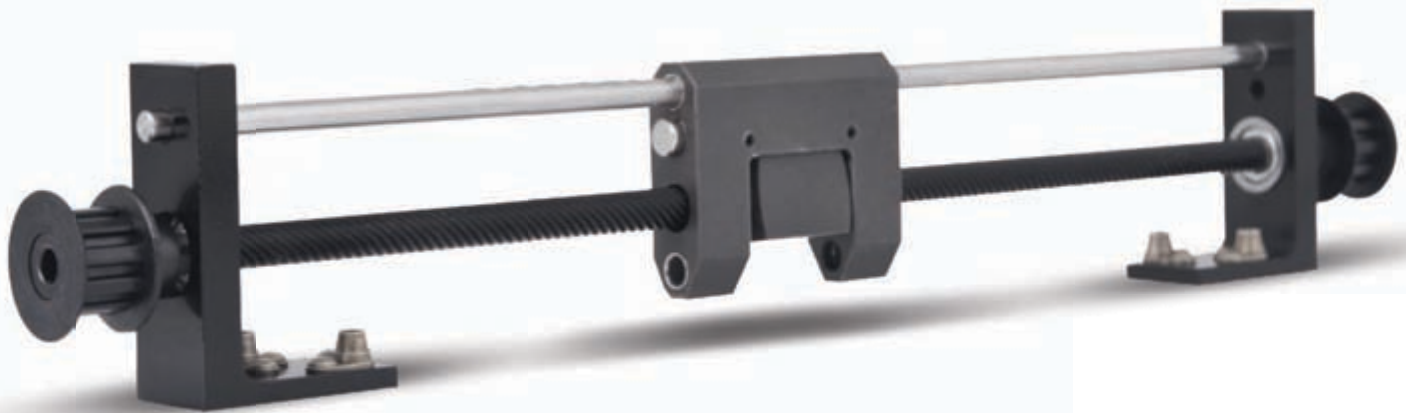
Web: **[www.wmberg.com](http://www.wmberg.com)**



# W.M. Berg – At a Glance

When you partner with Berg, you get a team of committed experts, all focused on your productivity and finding a solution for your application.

- Producing Precision Mechanical Components For Over 40 Years
- 150,000 Square Foot, State-of-the-Art Facility
- ISO 9001-2008
- 97% Customer-Satisfied On-Time Delivery
- Live Customer and Technical Support  
7:30 a.m. to 5:30 p.m. CST

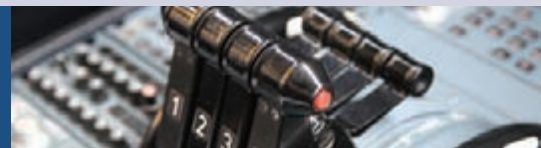


## The Advantages of Berg Products in the Aerospace Industry

- Certification Expertise
- Customization Capabilities
- High AGMA Quality Gears
- Application-Specific Materials
- Quality Machining Processes
- Reduced Costs
- Pre-Assembled Solutions

## Aerospace Applications that Utilize Berg Products

- Aircraft Instruments and Controls
- Communication Equipment
- Automatic Pilot Equipment
- Flight Simulation
- On-Board Aircraft Systems
- Throttle Controls
- Pilot Information Systems
- Satellite Tracking
- Navigation Instruments
- Seat Actuation



# A look at Berg's customer-specific, customized capabilities



## **Problem Solving: Delivering Quality Gears for the Frigid Temperatures of a Cockpit Assembly**

A Berg customer needed help with a set of gears that was not performing to expectation. The problem: the gears could not withstand the cold temperatures in a cockpit assembly. The Berg team went beyond what many others in the industry would or could do to solve the problem. They designed and provided the client with gears that have a distinct finish. Berg researched and diagnosed the problem for the client and brainstormed solutions. By taking these value-added steps, Berg ensured the gears now have the right coating to withstand extreme cold temperatures. The team provided the client with the best quality products and service.



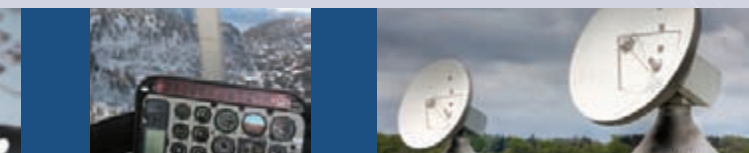
## **Strong Products and Partnership Solve Radar Need for the U.S. Military**

Berg has become an important partner with many in the aerospace community. A manufacturer supporting the U.S. military that specializes in radar antennas approached Berg with an early design need for a drive system on a small antenna. The antenna was to be mounted on airborne- and ground-based vehicles to assist with audio communication. The need was for precise rotational control of the antenna while the vehicle was moving. Other products the customer had tried resulted in broken belts due to high stresses and mismatched pulleys. In this case, Berg standard Kevlar encased belts were identified quickly. Strong, durable and – more importantly – reliable, these Berg products are now deployed allowing greater communication and situational awareness for U.S. troops.



## **Problem Solving and Product Performance Equates to Reliable WIFI Delivery for Airline Passengers**

A manufacturer set out to develop a more reliable WIFI delivery system for commercial aircraft that could allow passengers to check email, download files and more while in flight. Previous systems were heavy, expensive and commercially unsuccessful. They also relied on ground stations to uplink to the aircraft to provide signal. This is a problem for continuous communication. The answer was found in developing a system that could communicate via satellite in a continuous manner. With the planes moving in the air, which can be turbulent, the design requirements were challenging. Through discussions between the manufacturer and Berg engineers, the professionals' expertise led to the development of special sector gears. These and other high-performing gears produced by Berg provide for a satellite tracking package with limited backlash, which allows for continuous satellite tracking and uninterrupted internet communications.



# Highest Quality in Standard and Custom Manufacturing

Whether your needs are standard, non-standard, or for custom parts, we can step in and provide excellent customer service and engineering support, as well as partner with you for future opportunities.

## 80,000 Standard Line Items Include:

Gears / Bearings / Shafts / Pulleys / Belts / Sprockets / Chains / Clutches / Couplings / Linear Slides / Lead Screws / Gear Boxes / Fasteners / Hardware

Our customer service team is available  
7:30 a.m. to 5:30 p.m. CST.

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Web: **[www.wmberg.com](http://www.wmberg.com)**



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