



## GOVERNMENT AND DEFENSE APPLICATIONS

### Custom Gearing Solutions

Winsmith offers comprehensive custom gearing solutions engineered to meet the demands of the most challenging government and defense applications. Our experienced team of engineers and skilled machinists collaborate closely with customers to understand specific needs and design custom configurations optimized for any industry.

#### Defense Federal Acquisition Regulation Supplement (DFARS) Compliant

Winsmith can provide custom gearing solutions that are DFARS compliant, allowing us to deliver reliable and secure gear products for government and defense applications. With a strong commitment to meeting the stringent DFARS requirements, our gear solutions provide peace of mind and superior performance in critical projects.

#### ISO 9001:2015 Certified

As an ISO 9001:2015 certified company, Winsmith adheres to internationally recognized quality management standards. Our commitment to this certification means that our government and defense clients receive products of the highest quality, backed by a robust quality management system.

#### Directorate of Defense Trade Controls (DDTC) and International Traffic in Arms Regulation (ITAR) Compliant

Registration with the DDTC underscores our commitment to full compliance with ITAR regulations. We prioritize the secure handling, manufacturing and export of defense-related articles, providing our clients with the assurance that their sensitive technologies are in safe hands.

#### Restriction of Hazardous Substances (RoHS) Compliant

As part of our commitment to environmental responsibility, Winsmith is RoHS compliant. Our products can be tailored to meet the requirements of the RoHS Directive.



## Robust and Reliable Gearing Solutions for Demanding Defense Projects

### Traceability

We maintain meticulous record-keeping to allow traceability of all components used in our products. Our diligent documentation practices allow us to provide our government and defense clients with the necessary information and historical data, regarding the product life cycle.

### Precision Engineering

Winsmith specializes in precision engineering, utilizing advanced technologies and expertise to manufacture components and systems with exceptional accuracy and reliability. From design to production, our dedicated team of skilled engineers and technicians maintain meticulous attention to detail, so that our products meet the tolerances and quality standards required by our customers.

## CAPABILITIES

### Gearing Types

- Single Enveloping Worm Gears
- Double Enveloping Worm Gears
- Helical/Spur
- Planetary/Planocentric Options

### Input Capabilities

- Motion Control Servos
- NEMA Rated Devices
- IEC Compact Devices
- Hydraulic Inputs
- Solid Shaft Extension for Coupling or Pulley Driven Applications

### Gearing Specifications

#### Gear Ratios

- Range from 1.1:1 to 180,000:1

#### Torque

- Custom gearing solutions capable of delivering torque from 69 lb-in to 460,000 lb-in

#### Backlash

- To minimize position error in any motion control application, we can provide a minimum of 2 arcminutes of backlash

### Support

- Dedicated customer service team provides personalized efficient support.
- Outstanding sales team provides information and guidance to help work through issues.
- Innovative engineering team helps deliver optimal performance of any custom gearing solution.

