



### Rexnord Aerospace Gear Manufacturing Service Capabilities

For decades, Original Equipment Manufacturers (OEMs) within the commercial, defense and general aviation industries have depended on Rexnord Aerospace Gear Manufacturing Service Capabilities for a wide range of gears, including:

- Helical
- Miters
- Spiral bevels
- Splines
- Spur
- Straight bevels
- Worm gears

With a focus on continuous improvement, our excellence in engineering and manufacturing allows us to consistently provide high-quality services and parts to our customers.

# Rexnord Aerospace Gear Manufacturing Service Capabilities

### Complete manufacturing service capabilities for your aerospace gear applications.

Through our MicroPrecision™ and Precision Gear™ brands, Rexnord Aerospace provides customers in the commercial, defense and general aviation industries, as well as other general industries, a comprehensive range of gear manufacturing service capabilities for all types of gears. We service gears from .125 inches (3.175 millimeters) to 18 inches (450 millimeters) that can be found throughout many aircraft applications — this includes Auxiliary Power Units (APUs), engines, flight controls, fuel pumps, gearboxes, landing gear, safety shutoffs, horizontal stabilizers, and wings.

With nearly 70 years of expertise in the aerospace industry, and a continued commitment to investing in the latest machine technology and operational training for our team of experts, customers turn to Rexnord Aerospace for a broad offering of gear manufacturing service capabilities.

### Wide range of capabilities

Through our in-house facilities Rexnord Aerospace offers the following gear manufacturing service capabilities for our customers:

- Computer Numerical Control (CNC) gear and spline grinding
- Gear and spline cutting
- Hobbing
- Broaching
- Grinding (CNC and manual)
- Milling
- Turning
- Assembly
- Complimentary capabilities
- Electrical Discharge Machining (EDM)
- Non destructive testing (NDT)

See the reverse side of this product sheet for more detail on each of the capabilities we offer.

### Industry and regulatory standards

The class of gears we service are manufactured to the following standards:

- **Industry standards:** American Gear Manufacturers Association (AGMA) class up to 13, DIN 1
- **Regulatory standards:** AS9100, ISO 9001, Nadcap



**Rexnord Aerospace Gear Manufacturing Service Capability list**

Read below for the full list of gear manufacturing service capabilities Rexnord Aerospace provides to customers around the globe.

**Assembly**

- We partner with you to provide complete manufacture and assembly services for your specific low- to medium-volume gear assembly needs

**Broaching**

- Horizontal
- Vertical

**Complimentary capabilities**

- Deep hold drilling and honing
- Heat and freeze assembly and sub-assembly
- Straightening
- Stress relieving

**CNC gear and spline grinding**

- Full internal and external gear grinding
- Full internal and external spline grinding

**EDM**

- CNC EDM drilling
- CNC spark erosion
- CNC wire erosion

**Gear and spline cutting**

- CNC gear cutting — bevel, helical, spiral bevel, spur and worm gears
- CNC spiral gear cutting
- CNC spline cutting — internal and external

**Grinding**

- CNC cylindrical grinding:
  - Inside diameter
  - Outside diameter
  - Polygon
  - Offset diameter
  - Special form
  - Thread
  - Worm gear
- Manual grinding:
  - Inside diameter
  - Centerless
  - Cylindrical
  - Outside diameter
  - Jig
  - Surface
  - Superfinishing

**Hobbing**

- CNC gear hobbing — automatically loaded
- CNC spline hobbing — automatically loaded

**Milling**

- CNC — four and five axis
- Manual — four axis

**NDT**

- Dry penetrant inspection
- Magnetic particle inspection
- Nital etch

**Turning**

- Manual turning
- CNC sliding head turning — 1.18 inches (30 millimeters) bar feed with live tooling
- CNC turning — including twin chucking and live tooling



Since 1946, Rexnord Aerospace has satisfied the needs and critical demands of the aerospace industry with exceptional, high-quality products and innovative engineering. Choose Rexnord Aerospace products and solutions for your designs. Speak with our engineering sales staff to address your questions and design inquiries.