About US Gear

US Gear is a domestic manufacturer of high performance gears for racing and car enthusiasts. As a division of AxleTech International, US Gear also manufactures gears for heavy-duty vehicles used in the commercial and defense sectors. All manufacturing processes take place at our facility in Chicago, Illinois, including comprehensive gear analysis and development, duplex gear cutting, and heat treating. With over 50 years of qualified engineering expertise, US Gear is one of the leading independent gearing manufacturers in the country. High quality gears made with pride in the USA.

Heat Treating Expertise

US Gear has a 63,000 square foot heat treat facility. We are certified ISO 9001, ISO 14001, and OHSAS 18001. Our heat treat processes for gears are controlled using state-of-the-art programmable controllers and data acquisition systems. We enforce tight process control and repeatability, which are critical in the manufacturing of our high quality gears.
Process

Continuous Pusher Furnace (controlled atmosphere)
- Up to 2 rows and 500 lbs per tray per row
- Capable of carburizing with integral quench and press / plug quenching, and neutral hardening

Continuous Normalizer (no atmosphere)
- Normalize and temper
- Isothermal anneal capable of processing 2,800 lb per hour

Batch Furnaces (controlled atmosphere)
- Capable of processing up to 1,500 lb per load
- Capable of atmosphere normalize, anneal, carburizing, neutral hardening, and carbon restoration

Equipment

US Gear uses the latest equipment technology for its heat treating services
- Gleason Press Quenching machines
  - 4 in to 20 in diameter
- Induction Hardening Machines
  - 100 kW, AJAX Durant systems 6450, case depths up to 0.400 in, polymer quench
- Shot Peening System
  - 1 to 2 stations, 24 in maximum diameter, 4 to 8 nozzles
- Metallurgical Lab
  - Our fully equipped metallurgical lab delivers a wide range of destructive and non-destructive testing
Want the Best? Buy US Gear. Our commitment to customer service leads the industry.

At US Gear we specialize in part manufacturing for many industries. Light duty truck, high performance for racing, heavy truck, military, and mining to name a few. Our general rule of thumb is if it has a tooth, chances are we can make it. Straight gears, helical gears, internal splines, external splines, broaching, hobbing, carburizing, and induction hardening are all well within our capabilities.

- Turning
- Milling
- Gear Cutting
  - Straight Bevel
  - Spiral Bevel
  - Hypoid
  - Cylindrical
- Hobbing
- Spline Rolling
- Heat Treat
  - Carburize
  - Quench Press
  - Quench & Temper
  - Induction Hardening
- Grinding
  - OD

Quench Press

Locations

MANUFACTURING
US Gear
1020 West 119th Street
Chicago, IL 60643 USA

www.USGear.com

ORDER ENTRY / CUSTOMER SERVICE
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