

# QUALITY



Our uncompromising pursuit of quality and improvement in all processes has positioned Horsburgh & Scott as one of the highest quality designers and manufacturers of industrial gearing and gearboxes in the world.

## QUALITY POLICY

**RAPID RESPONSE** to our Customers and their needs  
**INTEGRITY** in everything that we design, manufacture and service  
**SERVE** our Customers with quality products and services  
**EXCEED** our Customers' expectations

**RISE** and Deliver the Difference!



## CULTURE OF OPERATIONAL EXCELLENCE AND CONTINUOUS IMPROVEMENT

### OUR LEAN/SIX SIGMA STAFF IMPROVES:

- Manufacturing processes
- Process consistency



## QUALITY ASSURANCE

Quality-centric individuals and teams have positioned Horsburgh & Scott as one of the **Highest-Quality Designers and Manufacturers of Industrial Gearing.**

- Engineering analysis and upgrades
- Reverse engineering
- Sophisticated tools and practices to follow rigorous standards, including AGMA, ISO 9001:2015
- Gear cutting (AGMA class 10)
- Gear grinding (AGMA class 14)
- Zeiss Coordinate Measuring Machine (4 x 4 x 2m) within 2 micron accuracy
- Ultrasonic testing (UT), Mag Particle testing (MT), Visual testing (VT), and Penetrant testing (PT)
- On-board lead & involute checking
- Specialized metallurgical testing for heat treat
- Nondestructive testing (NDT)

# COMPANY OVERVIEW



## TURNKEY GEARING SOLUTIONS

- Design to Manufacturing
- Repair & Rebuild
- Field Service - 24/7 service, Installation & Repair
- Reverse Engineering and Performance Upgrades
- Gears up to 24 ft. (7.3m) in diameter and 287 in.
- Gearbox Types: including Planetary, Concentric, Parallel Shaft, Split Power Path, Right Angle, Multi-Speed
- In-house Heat Treating and Carburizing up to 50,000 lbs. (22,000 kg)
- Induction Hardening to 5m in diameter or 30,000 lbs. (13,000 kg)
- Inspection and Testing



## INNOVATIVE EQUIPMENT

- Fellows 65-16 Shaper with full CNC controls
- Giddings & Lewis VTC 2000 vertical turning
- Gleason-Pfauter P1600/2000 hobber/gasher
- Gleason-Pfauter P2000G form grinder
- Gleason-Pfauter P2006 form grinder
- Gleason-Pfauter P2400/3000 hobber/gasher
- Hofler R1600/2000 form grinder
- Hofler R6000 form grinder
- Hofler 1600 form grinder
- Schiess horizontal boring mill
- G&L 3500 vertical turning center
- Farrel 50 ft. vertical turning center
- Aichlin pit furnace (2)

## REBUILD, REPAIR FIELD SERVICE

**Rebuilt & Repaired** thousands of **Gearboxes,** and have a library of drawings across **120 BRANDS.**

- Detailed inspections and evaluations
- Dynamic modeling and optimization recommendations
- Emergency breakdown service and repairs
- No load spin testing
- Equipment evaluation/analysis
- Gear alignment
- Installation and startup supervision
- Lubrication system evaluation
- Nondestructive testing (NDT)
- On-site machining
- Preservation and long-term storage
- FARO Arm
- Rebuilds of all manufacturers
- Re-ratios and engineered upgrades to gears and housings
- Reverse engineering
- Spare OEM parts
- 24/7 Rush Breakdown Service

## SOLUTIONS FOR MANY END MARKETS AND APPLICATIONS

- Metals
- Mining
- Pumps
- Sugar
- Oil & Gas
- Cement
- Agriculture
- Wind Energy
- Tire & Rubber
- Power Generation
- Transportation
- Infrastructure
- General Industrial



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DELIVERING THE DIFFERENCE



HORSBURGH & SCOTT