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:
- Take **Responsibility** for the organization's success
- Drive continuous **Improvement**
- Be a **Partner** in our customers’ satisfaction
- **Execute** quality objectives

We are **RIPE** for the future

Culture of Operational Excellence and Continuous Improvement:

Our Lean / Six Sigma staff improves:
- Manufacturing processes
- Process consistency
- Capability and capacity

Advanced Inspection Equipment:
- Zeiss Coordinate Measuring Machine (4m x 4m x 2m)
- On board lead & involute checking
- Specialized metallurgical testing for heat treat
- Nondestructive testing
  - Ultrasonic
  - Magnetic particle
  - Nital etch process line (1.8m)
  - Ultrasonic case depth measurement
COMPANY OVERVIEW

Manufacturing Capabilities:

- Gear cutting, including hobbing, shaping, Sykes herringbone, flycutting, Maag shaping (conventional and hardcutting), up to 7.3m
- Form grinders to 6m; AGMA class 14 with internal grinding to 3.5m OD
- Vertical turning to 15.2m with live spindle, shaft turning to 2m diameter, OD grinding to 1.8m diameter. Keyseating to 1.5m stroke with indexable table
- Large welded gear blanks to 6m diameter with furnace stress relieving
- Horizontal Boring Mills to 229mm spindles, 7 axis CNC floor mill with 6.1m index table

Heat Treat:

- New Aichelin carburizing and hardening line:
  - 2.0m diameter x 2.5m depth
  - 2.5m diameter x 2.0m depth
- New Saet CNC induction hardening machine up to 5.3m diameter
- Effective case depths for carburizing and induction hardening to 6.4mm
- Stress relieving of component weights to 100,000 lbs
- Process components to 50,000 lbs

Engineering and Quality Assurance:

- Engineering analysis and upgrades
- Reverse engineering
- Sophisticated tools and practices to follow rigorous standards, including AGMA, ISO 9001:2008, AASHTO and API
- Zeiss Coordinate Measuring Machine (4 x 4 x 2m)

Comprehensive Industrial Gearing Repair and Service:

- Engineering analysis, gearbox evaluations, reverse engineering
- Disassembly and reassembly
- Gear inspection
- Gearbox no-load spin testing
- Global field service
- Installation supervision
- Predictive and preventative maintenance
- Detailed borescope inspections
- Non-destructive testing
- Condition monitoring (vibration, torque, load, temperature, pressure, etc.)
  - Real time, remote and networked
  - Alarm notification
  - Root cause analysis
  - Condition assessment & dynamic modeling

Solutions for Many End Markets and Applications:

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

Main Plant
5114 Hamilton Avenue
Cleveland, OH 44114
216.431.3900

Heat Treat Facility
4629 Hamilton Avenue
Cleveland, OH 44114
216.432.5804

Repair Center
1441 Chardon Road
Euclid, OH 44117
216.865.0550

www.horsburgh-scott.com