

# MINING

Advanced Gearing Solutions  
for the Mining Industry



**HORSBURGH & SCOTT**  
*DELIVERING THE DIFFERENCE*

*Delivering the Difference with  
the company most qualified to  
handle all your gearing needs.*

**MAXIMIZE PROFITABILITY** with  
gear and gearbox re-engineering and  
performance upgrades

**CUSTOM GEAR DESIGN**, fabrication  
and manufacturing

**MOST EXPERIENCED** engineers in  
the industry

**RESPONSIVE 24/7 FIELD SERVICE**  
MSHA approved

**INFIELD INSPECTORS** on Ring Gears  
and Pinions

**UNCOMPROMISED QUALITY** and  
durability you can depend on

**MOST TRUSTED NAME  
IN MINE GEARING  
APPLICATIONS  
FOR OVER 135 YEARS**



**DEPENDABLE  
ON-TIME  
DELIVERY**



**EXPERT GEAR  
AND GEARBOX  
EVALUATION**



**REVERSE  
ENGINEERING AND  
PERFORMANCE  
UPGRADES**



**GEARBOX  
REBUILD & REPAIR  
SPECIALISTS**



# THE MILL GEARING EXPERTS

HORSBURGH & SCOTT HAS OVER 135 YEARS OF EXCELLENCE IN GEARING AND THE MOST EXPERIENCED AND KNOWLEDGEABLE ENGINEERS.

H&S provides turnkey gearing solutions for all types of mills, with complete project management, evaluation, repair, rebuild and realignment services. We specialize in optimizing your mill to operate with higher capacities and better efficiencies than original.

## REBUILD & REPAIR

- Emergency Breakdown service and repairs
- Equipment Evaluation / Analysis
- Detailed inspections and evaluations
- Gear Alignment

## APPLICATIONS

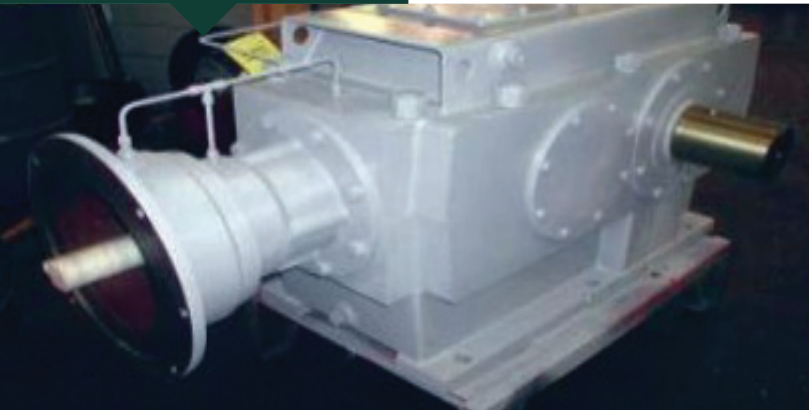
- Combination Drives
- Shovels and Draglines
- Long Wall Mining
- Back Wall Drives and Gears
- Kilns and Dryers
- Ball and Rod Mills
- Autogenous and SAG Mills
- Conveyors
- Dumpers
- Loaders
- Pulverizers
- Mine Hoist Gearing

## PRODUCTS

- Spur Gears
- Helical Gears
- Planetary Gears
- Herringbone Gears
- Ring Gears
- Pinions and Shafts
- Gearbox Components
- Power Transmission Assemblies
- Gearboxes and Drives
- Reconditioned Gears

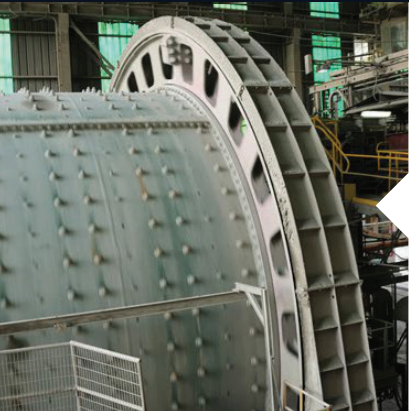
### CONVEYOR DRIVES

We re-engineer and rebuild gearboxes to brand new condition that function better and more efficiently than the original design.



### SHOVELS AND DRAGLINES

We provide gears that can withstand the toughest uses and conditions in mining.



### MILL DRIVES

We provide cost effective gearing solutions that are the most reliable in the industry.



# SOLUTIONS FOR MINING

IN-HOUSE TURNKEY SOLUTIONS FROM EVALUATION AND DESIGN TO MANUFACTURING. MOST TRUSTED NAME IN MINE GEARING APPLICATIONS FOR OVER 135 YEARS.

H&S is known for providing the most innovative and highest quality drop-in replacements and custom gearing solutions for coal, metal, and other mineral mining applications.

With over 278,000 square feet of modern manufacturing facilities, Horsburgh & Scott provides a full turnkey solution for all your custom gearing needs. From evaluation and design, to manufacturing and shipping, we will meet your scheduled repair deadlines.

- Gear cutting up to 24ft (7.3M) in diameter
- Grinding to AGMA Class 14
- In house heat treating and carburizing
- Finite Element Analysis (FEA)
- Induction hardening
- Quality measurements within 2 microns

## EXPERTISE

- On- site gear inspection, diagnostic, and failure analysis
- Turnkey repair and rebuild of any size gear or gearbox make and model
- Reverse engineering and upgrades to increase load capacities
- 24/7 field service with experienced technicians



**CUSTOM AND  
STANDARD  
GEAR, DRIVE  
AND GEARBOX  
SOLUTIONS**



**UNIQUE  
ENGINEERING  
EXPERTISE  
FOR MINING  
OPERATIONS**

**MORE ENGINEERS  
ON STAFF THAN  
ANY OTHER  
COMPANY IN  
GEARING**

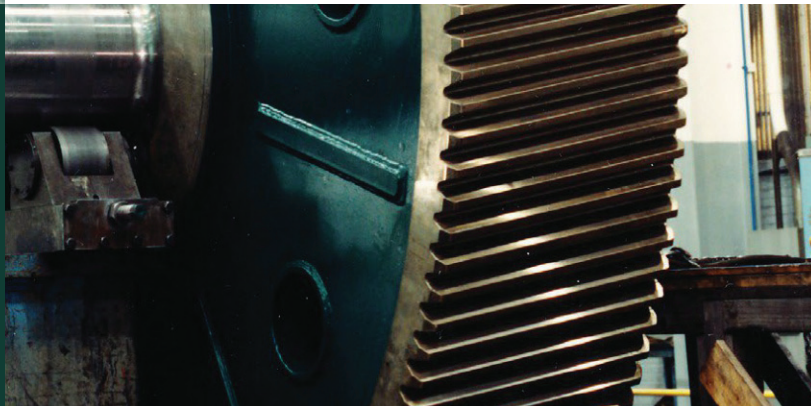
24/7 EXPERT ON-SITE MINING  
FIELD SERVICE, DIAGNOSTICS  
AND REPAIR AROUND THE GLOBE.



**HORSBURGH & SCOTT**  
*DELIVERING THE DIFFERENCE*

We have repaired almost every type of gear and gearbox in the mining industry for over a century. Whatever your toughest gearing challenge, we have a solution to repair and improve your mining gear equipment to last longer.

- Gear Inspection
- Gearbox no-load spin testing
- Installation supervision
- Detailed bore scope inspections
- Non-destructive testing
- FARO Arm on-site measurement
- Failure analysis
- Drop in replacements of competitive drives



**GEARING  
SOLUTIONS FOR  
MINES AROUND  
THE WORLD**

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