

# GEAR UP™

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

## SUGAR

HORSBURGH & SCOTT OFFERS THE INDUSTRY'S LARGEST AND MOST EXPERIENCED TEAM OF ENGINEERS FOR **GEAR AND GEARBOX DESIGN AND MANUFACTURING.**

**EXPERT GEAR AND GEARBOX EVALUATION**



**24/7 EXPERT ON-SITE DIAGNOSTICS, MAINTENANCE AND REPAIR**



**REVERSE ENGINEERING AND PERFORMANCE UPGRADES FOR GEARBOX REBUILD AND REPAIR**



**HORSBURGH & SCOTT**  
GEAR UP™

**LARGE SELECTION OF HIGH-QUALITY STANDARD GEARBOXES** for sugar processing

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

**FASTEST TURN AROUND TIME** in the gearing industry

**10% MORE YIELD** per grinding wheel

**90% LESS MAINTENANCE COST** with less than 100 gallons of oil per change interval

**100,000+ HOURS OF CONTINUOUS GEAR DRIVE OPERATION**



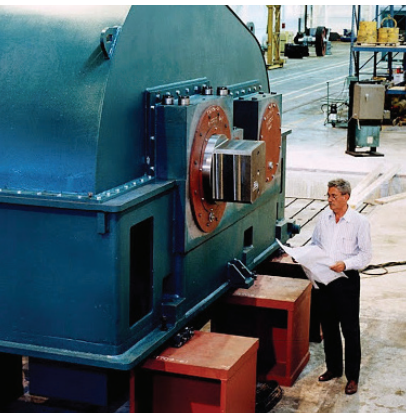
# ADVANCED GEARING SOLUTIONS FOR SUGAR

HORSBURGH & SCOTT HAS ADVANCED EQUIPMENT AND EXPERT ENGINEERS AND TECHNICIANS THAT CAN ACCURATELY DIAGNOSE ANY GEARBOX ISSUE AND SUGGEST THE BEST POSSIBLE OPTION FOR REPAIR, MAINTENANCE OR REPLACEMENT.

We understand that lost production time in sugar processing is costly. We manufacture replacement gears, repair and rebuild gearboxes, and improve gearing systems that can handle the high demands and stresses of the sugar refinery process.

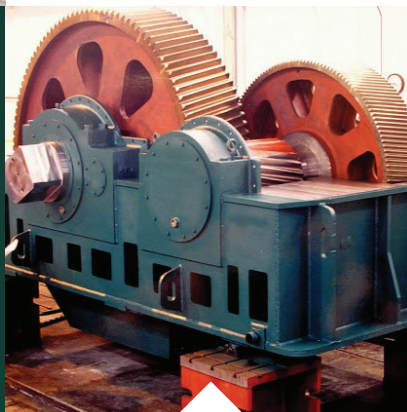
## APPLICATIONS

- Sugar mill main drives
- High speed mill gearboxes
- Low speed mill gearboxes
- Split power path main mill drives
- Planetary gear drives
- Knife drives
- Dryer table drives
- Steam turbine drives
- Feeder table drives



### SPLIT-PATH GEAR DRIVES

We repair and replace split-path gear drives as well as parallel path and planetary drives.



### GEAR DRIVE SYSTEMS

and all other gearing for sugar production.



**THE EXPERT IN DRB-4571**  
rebUILds and upgRADES.





# SUGAR

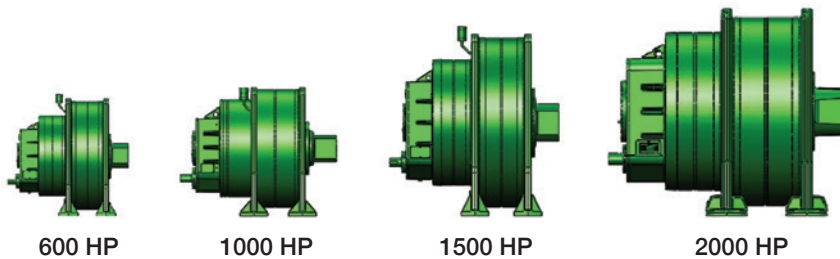
HORSBURGH & SCOTT SPECIALIZES IN GEARBOX REBUILD, REPAIR AND REDESIGN. WE HAVE BEEN IN BUSINESS FOR NEARLY 130 YEARS AND HAVE SEEN ALMOST EVERY TYPE OF GEAR IN THE SUGAR PROCESSING INDUSTRY.



**HORSBURGH & SCOTT**  
GEAR UP™

## WE PROVIDE A FULL RANGE OF CUSTOM AND STANDARD PLANETARY GEAR DRIVES FOR YOUR APPLICATION

INPUT HP (kW)	GRINDING CAPACITY tonnes/day	OUTPUT TORQUE RANGE M in-lbs (kNm)	OUTPUT SHAFT DIMENSION inches (mm)
600 (400)	6,500 - 8,500	9.4 (1060) - 15.1 (1710)	14 (355)
800 (600)	8,000 - 10,500	12.6 (1420) - 20.1 (2280)	15 (381)
1000 (750)	9,000 - 12,000	15.7 (1780) - 25.2 (2850)	15 (381)
1250 (900)	11,500 - 14,000	19.7 (2225) - 31.5 (3560)	18 (457)
1500 (1100)	12,500 - 15,000	23.6 (2670) - 37.8 (4270)	21 (533)
1750 (1300)	14,000 - 17,000	27.5 (3100) - 44.2 (5000)	25 (635)
2000 (1500)	15,000 - 19,000	31.5 (3100) - 44.2	30 (762)



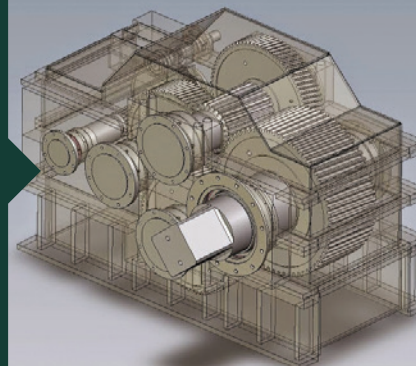
## PRODUCTS

- Spur Gears
- Helical Gears
- Planetary Gears
- Herringbone Gears
- Ring Gears
- Pinions and Shafts
- Gearbox Components
- Power Transmission Assemblies
- Gearboxes and Drives Up to 5000 HP

## EXPERTISE

- Engineering analysis, gearbox evaluation and reverse engineering of all brands.
- Drop-in replacement gear drives.
- 24/7 global field service.
- Rush breakdown repairs

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



**EQUIPMENT AND  
EXPERTISE TO  
HANDLE EVEN THE  
LARGEST DRIVES  
AND GEARBOXES**



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

GEAR UP™  
for higher productivity



**HORSBURGH & SCOTT**  
GEAR UP™

Horsburgh & Scott has nearly 130 years of engineering expertise in high torque, large gear drive systems. We use the world's most advanced gear cutting equipment and can duplicate virtually any gear geometry.

## CAPABILITIES

- Gears up to 40 ft (12m) in diameter
- Grinding to AGMA Class 14
- 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)
- Quality measurements within 2 microns



**GEARING  
SOLUTIONS  
FOR  
SUGAR MILLS  
AROUND  
THE WORLD**

