

**BEVEL GEAR CUTTING**

- 1 Phoenix 250 HC CNC Spiral Gear Cutter
- 2 #645 Gleason Hypoid Gear Generators
- 3 #641 Gleason Hypoid Gear Generators
- 2 #26 Gleason Spiral Bevel Generators
- 1 #118 Gleason Generator
- 1 #116 Gleason Generator
- 1 #108 Gleason Spiral Bevel Generator
- 8 #106 Gleason Generators
- 2 #16 Gleason Spiral Bevel Generators
- 6 #2 Gleason Spiral Bevel Generators
- 1 #114 Gleason Coniflex Gear Generator
- 3 #2A Gleason Coniflex Gear Generators
- 1 #12 Gleason Straight Tooth Rougher
- 1 #12 Gleason Straight Tooth Generator
- 4 #14 Gleason Coniflex Straight Gear Gen.
- 3 #104 Gleason Coniflex Gear Generators
- 2 Oerlikon Spiromatics
- 3 24A Gleason Coniflex Straight Gear Gen.
- 1 Cincinnati CNC Gear Gasher

**BEVEL GEAR GRINDING & LAPPING**

- 1 Gleason Phoenix 600 PG CNC Spiral Gear Grinder
- 1 Gleason Phoenix 200 G CNC Spiral Gear Grinder
- 1 Gleason Phoenix 400 PG CNC Spiral Gear Grinder
- 1 Gleason Phoenix 450 PG CNC Spiral Gear Grinder
- 5 #463 Gleason Spiral Grinders 3-18" Wheel
- 1 #27 Gleason Spiral Bevel Tooth Grinders 6-18" Wheel
- 3 #19 Gleason Bevel Gear Lappers
- 1 138/504 Gleason Bevel Gear Lapper 36"
- 1 Vinco Spline Lapper
- 2 #SL3 Oerlikon Lappers

**BEVEL GEAR TESTING**

- 6 #27 Gleason Bevel Gear Testers
- 1 #523 Gleason Bevel Gear Tester
- 1 #502 Gleason Bevel Gear Testers
- 15 #13 Gleason Bevel Gear Testers
- 19 #6 Gleason Bevel Gear Testers
- 2 #4 Gleason Bevel Gear Testers
- 5 # 104 Angular Hypoid Testers (14000 RPM)
- 7 Fellows Spacing Checkers #12-C
- 3 #17 Gleason Bevel Gear Tester

**SPUR & HELICAL GEAR CUTTING**

- 1 Gleason Phoenix 400 GH CNC Hobber
- 1 Gleason Phoenix 200GH CNC Hobber
- 1 Gleason Phoenix 125 GH CNC Hobber
- 1 Lorenz Model LS-426 CNC Gear Shaper
- 1 Lorenz Model LS-424 CNC Gear Shaper
- 1 Lorenz Model LS-152 CNC Gear Shaper
- 1 Pfauter Hobber (CNC P256)
- 1 P403 Pfauter Gear Hobber
- 1 Star Model VHS Hob Sharpener
- 1 Kapp Hob Checking Instrument
- 1 GCY 12" National Broach Gear Shaver
- 1 Type "Z" Fellows Shaper
- 2 #6-10 Barber-Colman Hobbers
- 2 16x16 Barber-Colman Hobbers
- 1 16 x 36 Barber-Colman Hobber

**3 CLIMATE CONTROLLED GEAR LABS**

- 1 Gleason M&M Sigma 5 CNC Inspection System
- 1 Hofler EMZ 632 CNC Gear Checker
- 1 M&M3515 Gear Inspection System
- 1 M&M 2025-4 QC System Gear Checker
- 2 ITW/Illitron CNC Gear Inspection System
- 2 Hommelwerke Contour Tracers
- 1 Fellows 8M Redline checker
- 1 Fellows 20M Redline Checker
- 1 #6 Gleason Tester
- 1 #13 Gleason Tester
- 2 Model 12 Fellows Involute Checkers
- 1 Illinois Lead Checker-Model 3924-C
- 1 Illinois Composite Checker

**GEAR FINISHING**

- 1 Hofler Helix 400 SK. CNC Gear Grinder
- 1 RZ 300 E Reishauer Gear Grinder
- 2 Kapp CNC Internal Gear Grinders
- 1 Kapp CNC External Gear Grinder
- 1 GG-19 Spur Gear and Spline Grinder
- 1 GHO Red Ring Gear Honer
- 3 REM Isotropic Superfinishers

## **HEAT TREATING**

- 2 Sunbeam 30" x 48" x 24" Automatic  
Carburizing Hardening & Quench furnaces
- 1 Sunbeam RER-618 Rotary Furnace
- 1 Thermcraft Rotary Hearth Furnace
- 1 Ipsen T1 12"x18"x12" Carb. Hard. Quench Furnace.
- 1 Blue M Oven
- 1 Super System 2 Bench 3 Gas Analyzer
- 2 L&N 25" x 48" Pit Carburizing Furnaces  
(Updated with latest Controls)
- 1 Lindberg 24" x 48" x 20" H Box Hardening Furnace
- 1 Lindberg 36" x 48" x 24" Box Furnace
- 3 JL Becker 30" x 48" x 24 Draw Furnace
- 2 Sunbeam 30"x 48" x 24" Draw Furnace
- 1 Sunbeam 30"x 54"x 16" H Box Hard, furnace
- 1 Sunbeam 30"x 48"x 24" Multi-Stage Washer& Dryer
- 2 Surface Combustion 2400 CFH Endo.Gas Gen.
- 1 Gleason #Q 140R Rolling Quench Press
- 1 Gleason #529 Quench Press
- 3 Gleason #537 Quench Presses
- 1 Eitel RP-40 Straightening Press
- 2 100 Ton Hydraulic Straightening Press
- 3 Greenard C-France Straightening Press
- 1 Bronco Double Door Swing Table Blast Machine
- 1 Ruemelin Hand Blast Cabinet-Garnet Media
- 4 Uni-Hone Dry Honers-Glass Bead Media
- 1 Copper Strip Tank
- 2 Webber LT25 48"x30"x30"
- 1 Liquid Nitrogen Cold Box
- 1 Deep Freeze Cabinet 60" x 18" x 30" D
- 1 DeVilbiss Stray Booth Type DF
- 1 Despatch Electric Oven, Type RS-0
- 1 Despatch Electric Oven, Type R5-3
- 3 Rockwell Hardness Testers
- 2 New Age Computerized Micro Hardness Testers
- 1 New Age surface hardness testing sys with IBM comp.
- 1 Metallographic Microscope
- 1 Portable Rockwell Hardness Tester
- 1 Leco Automatic Carbon Determinator
- 2 SSI Dewpoint Hygrometer
- 1 Industrial Oven-Stress Relieve for Tooth Grinding
- 1 Wisconsin Oven - Walk-in (4'x 6'x 6' Ht.)
- 2 Grieve Oven (66" x 68" x 30") Stress Relieve
- 3 Grieve Ovens (36" x 36" x 36") Stress Relieve
- 1 Stuers Rotopol II Polishing Mach.
- 1 Stuers Unitoms cutoff saw
- 1 Universal 4836 Dry Honer
- 1 Uni-Blast 6 Station Indexing and Turntable Blaster
- 1 Zero Blast 6 Station Indexing & Turntable Blaster
- 1 Micro Blast Blaster
- 1 Struers Labo Press - 3
- 1 Struers Duramin - A300 Micro Hardness Checker
- 1 Nikon Inverted Microscope
- 1 Mikon Sterio Microscope  
(both with digital camera's and computer)

## **ID. / O.D. THREAD & SURFACE GRINDERS**

- 1 Okuma G1-20N/4W (4 spindle)CNC Int. Grinder
- 1 Okuma GI-20N CNC Internal Grinder
- 1 Bryant LL3-50 CNC Internal Grinder
- 2 Bryant LL3-55 CNC Internal Grinders
- 1 Toyoda GU4-100 CNC Universal Grinder
- 1 Toyoda GPN 5A CNC Angle Wheel O.D.grinder
- 1 Toyoda GL6A CNC Angle Wheel O.D. Grinder
- 2 Toyoda GL4A CNC Angle Wheel O.D.Grinders
- 1 Norton 10" x 18" Cylindrical Grinder (CTU)
- 1 Bryant 24B36 Internal Grinder
- 1 Model 171 Heald Internal Grinder
- 1 Model 271 CNC Heald Internal Grinder
- 1 Matrix 1600 CNC Thread Grinder
- 1 Ex-Cell-O Thread Grinders
- 1 Okamoto 12" x 24" Precision Surface Grinder
- 2 Sunnen Honing Machines
- 2 Bryant Center Grinding Machines
- 3 Ex-Cell-O Center Lappers
- 1 361 Heald Rotary Surface Grinder
- 1 Ex-Cell-O 39A Internal Thread Grinder

## **DRILL, MILL, BROACH**

- 1 Cincinnati Milacron VMC 750 CNC w/4th Axis
- 3 Drill Presses Multi-Spindle-Leland Gifford
- 1 Cincinnati Bickford Drill Press
- 1 W.H. Nichols Mill
- 1 25 Ton x 90" Broach - Colonial
- 1 20 Ton x 60" Broach - American
- 1 3 Ton x 36" Broach - Colonial
- 1 5 Ton Tymiles Broach
- 3 Drill sharpeners
- 2 Bridgeport Milling Machines
- 2 DAH-LIH Vertical Machining Centers w/4th axis
- 2 Automatic Horizontal Drill Presses
- 1 Miyano CNC Drill & Tap Machine w/4th axis
- 1 Hurco VMx64 CNC Machining Center w/4th axis
- 1 Trak CNC Milling Machine w/indexer

## **TURNING**

- 1 Mori Seiki NL 3000/700 CNC Lathe
- 1 Mori Seiki NL 3000/1250 CNC Lathe
- 2 Mori Seiki SL 253BMC500 CNC Lathes
- 2 Mori Seiki NL2500/700 CNC Lathes
- 1 Cincinnati Milacron Avenger 200T Turning Center
- 2 Giddings & Lewis CNC 2-Axis Vert 18" Chuckers
- 1 SC 28 Warner & Swasey Numerically Cont Lathe
- 2 Okuma & Howa 2SP-3L Twin Spindle Lathes
- 2 Mazak CNC Slant Turn 30 Lathe
- 1 Bridgeport CNC EZ-Path Lathe
- 1 LeBlond 15" Makino 19 Regal Lathe
- 1 Okuma LB15 CCNCLathe w/hydrostatic Bar Feed Lathe
- 1 Sundstrand Centering Machine
- 1 South Bend 16" Lathe
- 1 Marvel 15A4 Band Saw
- 1 Marvel 15A8 Band Saw
- 1 Marvel 9A Power Hack Saw
- 1 Portable Centering Tool
- 1 Defiance Drill Press
- 1 SHD Barnes Hydraulic Drill Press
- 1 Hardinge Conquest 42 CNC Lathe
- 1 Cincinnati Bickford Drill Press
- 1 Custom Gun Drill
- 1 Harrison Alpha 460T CNC Automated Lathe
- 1 Gallop 22" / 32" x 60" Gap Bed Lathe
- 1 2SC Warney & Swasey CNC Lathe
- 1 Caterpillar #150 Inertia Welder
- 2 #232 Christian Tool & Cutter Grinders
- 2 #528 Gleason Cutter Truing Stands
- 1 Cordax 1000 Coordinate Measuring Mach.
- 1 Sweco Vibratory Deburring Machine - 3 Cu.Ft.
- 10 Gleason Cutter Sharpeners
- 1 Nital Etch Inspection Center
- 1 OGP Optical Comparator
- 1 J & L Optical Comparator
- 2 Lenze Gratomat Deburring Machines
- 6 Polishing & Finishing Machines
- 1 Schmidt Marking Machine
- 2 #.2 Cincinnati Universal Tool & Cutter Grinders
- 1 Magnaflux Magnaglow, 6000Amps, TypeH-810-R
- 1 Mic-Collette Shaper Cutter Sharpener
- 1 5600 Pneumo-Centric Roundness Checker
- 1 Oerlikon Blade Grinder
- 1 Laser Ray Marker
- 4 Trimos Vertical Height Gages
- 1 James Engineering Deburr System
- 22 72704309 & 4312 MAI VDT's  
(shop floor Control System)
- 1 Lapmaster Model 150 Super Finisher
- 2 STI 30" Optical Comparator
- 1 Mitutoyo CMM Retrofitted to Ziess Controller
- 1 Magnaflux Magnaglow, 6000 amps, Type H-810-R
- 1 5600 Pneumo-Centric Roundness Checker
- 1 Laser Ray Marker
- 1 Mitutoyo RA2000 Roundness Tester
- 1 CNC Gear Chamfering Machine
- 1 Sullair 100HP Air Comp.
- 2 Sullair 50HP Air Comp.
- 3 REM Isotropic Superfinisher Systems
- 1 Telesis TMP6000 Pin Marker
- 1 Telesis TMP6100 Pin Marker with 2D Data Matrix Capability
- 1 Trumpf VWS 1200/VMC1 Laser Marker with 2D Data Matrix Capability