



ARROW GEAR COMPANY

EQUIPMENT LIST

BEVEL GEAR CUTTING

- 3 Phoenix 250 HC CNC Spiral Gear Cutters
- 2 #645 Gleason Hypoid Gear Generators
- 3 #641 Gleason Hypoid Gear Generators
- 1 #118 Gleason Generator
- 1 #116 Gleason Generator
- 1 #108 Gleason Spiral Bevel Generator
- 6 #106 Gleason Generators
- 2 #26 Gleason Spiral Bevel Generators
- 2 #16 Gleason Spiral Bevel Generators
- 6 #2 Gleason Spiral Bevel Generators
- 1 #114 Gleason Coniflex Gear Generator
- 2 #104 Gleason Straight Coniflex Gear Generators
- 3 #2A Gleason Coniflex Gear Generators
- 2 #24A Gleason Straight Bevel Coniflex Generator
- 4 #14 Gleason Straight Bevel Coniflex Generator
- 1 #12 Gleason Straight Tooth Rougher
- 1 #12 Gleason Straight Tooth Generator
- 1 Oerlikon SM3 Spiromatics
- 1 Oerlikon S27 Spiromatics
- 1 Cincinnati CNC Gear Gasher

BEVEL GEAR GRINDING

- 1 Gleason Phoenix II 600 PG CNC Spiral Gear Grinder
- 1 Gleason Phoenix 450 PG CNC Spiral Gear Grinder
- 1 Gleason Phoenix 400 PG CNC Spiral Gear Grinder
- 1 Gleason Phoenix II 275 PG CNC Spiral Gear Grinder
- 1 Gleason Phoenix 200 PG CNC Spiral Gear Grinder
- 5 #463 Gleason Spiral Grinders 3-18" Wheel
- 1 #27 Gleason Spiral Bevel Tooth Grinders 6-18" Wheel

BEVEL & SPUR LAPPING / GEAR FINISHING

- 3 #19 Gleason Bevel Gear Lappers
- 1 138/504 Gleason Bevel Gear Lapper 36"
- 1 Vinco Spline Lapper
- 2 #SL3 Oerlikon Lappers
- 1 GHO Red Ring Gear Honer
- 3 REM Isotropic Superfinishers

BEVEL GEAR TESTING

- 1 #552 Gleason Bevel Gear Tester
- 1 #523 Gleason Bevel Gear Tester
- 1 #502 Gleason Bevel Gear Testers
- 5 #104 Angular Hypoid Testers (14000 RPM)
- 6 #27 Gleason Bevel Gear Testers
- 3 #17 Gleason Bevel Gear Tester
- 16 #13 Gleason Bevel Gear Testers
- 19 #6 Gleason Bevel Gear Testers
- 2 #4 Gleason Bevel Gear Testers

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 Type "Z" Fellows Shaper
- 1 16 x 36 Barber-Colman Hobber
- 2 16x16 Barber-Colman Hobbers
- 1 #6-10 Barber-Colman Hobbers
- 1 GCY 12" National Broach Gear Shaver

SPUR & HELICAL GEAR GRINDING

- 1 Hofler Helix 400 SK. CNC Gear Grinder
- 2 Kapp CNC Internal Gear Grinders
- 1 Kapp CNC External Gear Grinder
- 1 Hofler Rapid 800 Spur & Helical Internal/External. Gear Grinder

3 CLIMATE CONTROLLED GEAR LABS

- 1 Wenzel WGT500 CNC Gear Checker
- 1 Gleason M&M Sigma 5 CNC Inspection System
- 1 Hofler EMZ 632 CNC Gear Checker
- 1 M&M 3515 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
- 2 Fellows 20M Redline Checker
- 2 Model 12 Fellows Involute Checkers
- 1 Illinois Lead Checker-Model 3924-C
- 1 Illinois Composite Checker
- 7 Fellows Spacing Checkers #12-C

HEAT TREAT EQUIPMENT

- 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 Heavy Duty Pit Furnace 28" x 48"
- 1 Lindberg 24" x 48" x 20" Box 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" Box furnace
- 1 Sunbeam 30"x 48"x 24" Multi-Stage Washer & Dryer
- 2 Surface Combustion 2400 CFH Endo.Gas Gen.
- 1 Despatch Electric Oven, Type RS-0
- 1 Despatch Electric Oven, Type R5-3
- 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
- 2 Webber LT25 48"x30"x30"
- 1 Deep Freeze Cabinet 60" x 18" x 30" D

HEAT TREAT QUENCHING & STRAIGHTING

- 1 Gleason #Q 140R Rolling Quench Press
- 3 Gleason #537 Quench Presses
- 1 Gleason #529 Quench Press
- 1 Eitel RP-40 Straightening Press
- 2 100 Ton Hydraulic Straightening Press
- 3 Greenard C-France Straightening Press

HEAT TREAT METALLURGICAL LAB

- 1 Stuers Rotopol II Polishing Mach.
- 1 Stuers Unitoms cutoff saw
- 1 Struers Labo Press - 3
- 1 Struers Duramin - A300 Micro Hardness Checker
- 1 Nikon Inverted Microscope
- 1 Nikon Stereo Microscope (with digital camera and
computer)
- 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 Lapmaster Model 150 Super Finisher

ID. / O.D. THREAD & SURFACE GRINDERS

- 1 Okuma G1-20N/4W (4 spindle)CNC Int.
Grinder
- 1 Okuma G1-20N 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 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 Grinder - #35
- 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 24"
- 1 361 Heald Rotary Surface Grinder 30"
- 1 Springfield 25 CNC Vertical Grinder

TURNING

- 1 Doosan VT900 Vertical Turning Lathe 32"
Chuck
- 1 Mori Seiki NL 3000/1250 CNC Lathe
- 1 Mori Seiki NL 3000/700 CNC Lathe
- 2 Mori Seiki NL2500/700 CNC Lathes
- 2 Mori Seiki SL 253BMC500 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 CNC Lathe
- 1 South Bend 16" Lathe
- 1 Hardinge Conquest 42 CNC Lathe
- 1 Harrison Alpha 460T CNC Automated Lathe
- 1 Gallop 22" / 32" x 60" Gap Bed Lathe

DRILLS / MILLS / BROACH / SAWS

- 1 Hurco VMx64 CNC Machining Center w/4th axis
- 1 Toyoda FV1165 CNC Vertical Machining Center w/4th axis
- 1 Brother TC-S2C-CTS CNC Tapping & Drilling Center w/ 4th axis
- 1 Cincinnati Milacron VMC 750 CNC w/4th Axis
- 1 Miyano CNC Drill & Tap Machine w/4th axis
- 1 DAH-LIH Vertical Machining Centers w/4th axis
- 1 Trak CNC Milling Machine w/indexer
- 3 Drill Presses Multi-Spindle-Leland Gifford
- 1 Cincinnati Bickford Drill Press
- 1 W.H. Nichols Mill
- 2 Bridgeport Milling Machines
- 2 Automatic Horizontal Drill Presses
- 1 Cincinnati Bickford Drill Press
- 1 Custom Gun Drill
- 1 Portable Centering Tool
- 1 Defiance Drill Press
- 1 SHD Barnes Hydraulic Drill Press
- 1 Sundstrand Centering Machine
- 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 Broach1 Marvel 15A8 Band Saw
- 1 Marvel 15A4 Band Saw
- 1 Marvel 9A Power Hack Saw

DEBURR / POLISHING / PART MARKING

- 1 Sweco Vibratory Deburring Machine -3Cu.Ft
- 1 Lenze Gratomat Deburring Machines
- 6 Polishing & Finishing Machines
- 3 REM Isotropic Superfinisher Systems
- 1 Trumpf VWS 1200/VMC1Laser Marker with 2D Data Matrix Capability
- 1 Redin Model 18 Gear Deburring Machine
- 1 Schmidt Marking Machine
- 2 Robotic CNC Gear Chamfering Machines
- 1 Telesis TMP6000 Pin Marker
- 1 Telesis TMP6100 Pin Marker with 2D Data Matrix Capability
- 1 Dapra Techno Mark Pin Marker with 2D Data Matrix Capability
- 1 James Engineering Deburr System

BLASTING EQUIPMENT

- 1 Bronco Double Door Swing Table Blast Machine
- 1 Ruemelin Hand Blast Cabinet-Garnet Media
- 4 Uni-Hone Dry Honers-Glass Bead Media
- 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

CUTTER AND TOOL SHARPENING

- 1 Gleason #300 Cutter Grinder
- 1 Gleason #107 Cutter Grinder
- 5 Gleason #13 Cutter Grinders
- 2 Gleason #12 Cutter Grinder
- 1 Gleason #2 Cutter Grinder
- 1 Oerlikon SKB Blade Grinder
- 3 Drill sharpeners
- 2 #232 Christian Tool & Cutter Grinders
- 2 #528 Gleason Cutter Truing Stands
- 1 Micro-Collette Shaper Cutter Sharpener
- 3 #2 Cincinnati Universal Tool & Cutter Grinders
- 1 Star Model VHS Hob Sharpener
- 1 Kapp Hob Checking Instrument
- 1 Norton Surface Grinder
- 1 Oerlikon Cutter Truing Station
- 1 Orion CNC Dressing Center

INSPECTION EQUIPMENT

- 1 OGP Optical Comparator
- 1 J & L Optical Comparator
- 1 Magnaflux Magnaglow, 6000Amps, TypeH-810-R
- 1 Magwerks MV3436 Tri-Vector Magnaflux Machine 5/10
- 1 Magwerks FM-2225X Demagnetizer 5/10
- 1 5600 Pneumo-Centric Roundness Checker
- 3 Trimos Vertical Height Gages
- 2 ST Industries 30" Optical Comparator
- 1 Mitutoyo CMM Retrofitted to Ziess Controller
- 1 Mitutoyo RA2000 Roundness Tester
- 5 Mitutoyo Vertical Height Checkers
- 1 Nital Etch Line
- 1 Beta Lasermic
- 1 Trimos Lab concept
- 1 Degmagnetizer machine

MISC. EQUIPMENT

- 1 Caterpillar #150 Inertia Welder
- 1 Sullair 100HP Air Comp.
- 2 Sullair 50HP Air Comp.
- 1 Copper Strip Tank
- 1 DeVilbiss Paint Booth
- 2 Better Engineering Water Washes
- 1 Roto Wash
- 2 Solvent Spray Booths

EQUIPMENT ON ORDER

- 1 Gleason #36 Quench Press Nov. 2010
- 2 Phoenix 450 HC CNC Spiral Gear Cutters Spring of 2011