

EQUIPMENT LIST

GEAR HOBBERS

<i>Qty</i>	<i>Description</i>
2	Koepfer 200 CNC 7-axis automated loading with worm milling high helix hob head (2007), (2008)
1	Koepfer 153B hobber with automated loading and crowning (1993)
1	Koepfer 300 CNC 7-axis automated loading with skiving (2004)
4	Koepfer 200 CNC 7-axis automated loading with skiving (1997,1999, 2001, 2003)
1	Koepfer 153B with CNC auto LOAD (1994)
1	Koepfer 180 CNC auto loading (1996)
2	Gleason 125 GH CNC – auto loading and carbide re hobbing, special accuracy (1997, 2001)
2	Gleason 400 CNC (1998, 1998)
4	Koepfer 160B, (2) extended (1998, 2002) and (2) standard (1998, 2004)
1	Koepfer MZ130 (2008) CNC autoloader gear and worm hobber
1	Pfauter PE 125 horizontal 6 axis - 800MM spline length (1995)

QUALITY ASSURANCE EQUIPMENT

<i>Qty</i>	<i>Description</i>
1	Klingelnberg P65 analytical CNC checker (2002)
1	Wenzel Gear Tec LH87 CMM with rotary table (2008)
1	Wenzel Gear Tec WGT 600 analytical CNC checker (2007)
1	Precision Gage G3 Gearmaster 15” C.D. with high center and worm attachment (2006)
1	PQ Systems Gagepack calibration software (1999)
1	Gleason 6 universal angular power gear tester
1	Universal Technical Systems gear analysis software and tk solver with 2008 version
1	Zeiss Stemi 2000-C magnification system
1	Digit DOB.8 -measurements over and between pins (2006)
2	Mitutoyo Digimatic height gage model HDS H24C (2007)
4	Mahr height gages (2006-2007)
1	Wenzel Gear Tec 350 analytical CNC checker (2005)
1	Mitutoyo surface tester SV-3000 with Surfpack software (2004)
1	Zeiss Contura coordinate measuring machine (2001)
2	Mahr double flank roll testers 898 B, DFI-898 (2001)
1	Hommelwerke Z2000 CNC gear computer, ZW6 8305 double flank roll tester (1988)
2	9N parkson roll test unit with worm attachment
19	Vari-Roll gear checkers and master gears, (1) Vari-Roll 4000 VARI PC
1	OPG optical comparator QL20STD with smart check software (2001)
2	Illinois Tool Works #265 hob checker #365
2	Federal air bore gage (2000, 2006)
5	Sunnen bore gages
1	Wilson /Instron hardness tester TT series 2000 (2003)
1	AST roll scan 200-1 grind burn detection checker (Barkhausen effect- 2004)
1	Vinco optical dividing head
1	Cimworks visual SPC Shopfloor software (2000)
1	Complete inspection room--certified master TO MIL-L-45208A, gage control MIL-STD-45662, ISO 9001:2000; AS 9100; ISO 13485 medical certificate

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EQUIPMENT LIST (cont.)

GEAR AND THREAD GRINDERS

Qty Description

- 1 Hoffer helix 400 SK (2008)
- 1 Drake GS:TE-LM CNC thread grinder (2006)
- 1 Kaap VUS55P form gear and thread grinder with internal gear grinding (2005)
- 1 S400G Samputensili RI 400 twin gear grinder (2008)
- 1 S375G Samputensili RI 375 CNC gear and thread grinder with internal gear grinding (2008)

GEAR SHAPERS

Qty Description

- 1 Fellows/Bourn and Koch MS450-125 CNC shaper with crowning (2008)
- 1 MITSUBISHI ST25 CNC high speed gear shaper (2006)
- 1 Mitsubishi ST40 helical quick return guidless 5 axis CNC shaper (2004)
- 1 Gleason PSA 300 with electronic helical guide feature and automatic column inclination , special accuracy (2008)
- 2 Gleason PSA 500 with electronic helical guide feature and automatic column inclination with face gear attachment. 200 MM stroke special accuracy (2003, 2008)

SECONDARY EQUIPMENT

Qty Description

- 1 Sunnen SV1005 cross grind hone (2007)
- 2 Kellenberger Kel-Vista type UR universal cylindrical grinding machine model 175-600 (2007)
- 1 Clausing Colchester mastiff V/S lathe (2003)
- 1 Takisawa TC-10 autoloader secondary lathe (2000)
- 1 Vale Esmachemicals ultra sonic cleaner (1989)
- 2 Hurco VM-1 machining center (2007)
- 1 Hurco CNCVMX42 milling machine (2005)
- 1 Wilton VSG 20 drill press (2000)
- 1 Denison 4 ton hydraulic multi-press
- 5 Hardinge lathes
- 1 High speed special accuracy centering machine
- 1 Chevalier 3 axis surface grinder (1998)
- 1 5 ton, 48" stroke horizontal Ohio broach (rebuilt 1998)
- 1 Sunnen MHS-401 cross grinding hone W/auto load (1999)
- 1 Sunnen EC-3500 power stroked hone with auto load (1999)
- 1 Sunnen EC-3500 power stroked hone (1994)
- 1 Jenfab minibelt washer/dryer (2007)
- 1 Tasc master aqueous cleaning systems
- 2 Chamfermatic deburring machines (2000, 2001)

- 2 Roto-finish Gemini vibratory tumbler (2001, 2008)
- 1 Comco Pro center DF1400 micro blaster with 20X optics microscope
- 1 Rofin A-B laser Starmark Engraver (2001)
- 1 Senjo Seiki PLC-101 SAI Chamfering (2008)

ADDITIONAL EQUIPMENT

Qty Description

- 1 Star/SU PTG-1 hob and shaper cutter sharpener (2008)
- 1 Barber-Colman model hob sharpener (2 1/2-2)
- 1 Koepfer 100 hob sharpener with spiral gash (2002)