



Hilltec Gears, L.L.C.

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Capabilities Overview

1. Gear Manufacturing

- **Gleason Profile Gear Grinder**
 - Capable of grinding gears up to 2 meters in diameter
 - Achieves AGMA Q2 accuracy, ensuring high precision for demanding applications.
- **Gear Hobbers**
 - Hob gears up to 2 meters in diameter
 - Suitable for large-scale production of spur and helical.

2. CNC Machining

- **DMG Mori CTX Gamma 2000TC**
 - 7-axis configuration
 - Equipped with gear milling software
 - Hob gear teeth
 - Max turning diameter is 30 inches.
 - Max workpiece length is 80 inches.
 - Tool magazine capacity: 180 tools
 - Brand new 2025 model.
 - On board probe
- **CNC Horizontal Lathes**
 - Model Numbers: NL2000, NL6000XLM, SL3500LM
 - Max Turning Diameter: 36"
 - Max Turning Length: 120"
 - Equipped with live tooling and Fanuc control systems for precision and versatility in machining.
- **Takumi Vertical Mill V11**
 - CAT 50 tool holders for rigid and heavy-duty milling
 - 45" x 26" table
 - Automatic tool changer and coolant through the spindle, controlled by Fanuc CNC systems.
- **CNC Vertical Turning Lathe**
 - Max Turning Diameter: 65"
 - Automatic tool changer, controlled by Fanuc CNC systems.
 - 60" table

3. Sawing and Cutting

- **Cosen CNC Saw**
 - Max Cutting Diameter: 10"
- **Amada CNC Saw**
 - Max Cutting Diameter: 20"

4. Inspection and Quality Control

- **FARO QUANTUM MAX with Laser Scanner Arm**
 - High-precision 3D scanning and probe for reverse engineering.
 - Generates full Quality Control (QC) reports for detailed inspection.
- **Kapp Niles KNM 9X**
 - 4 axis, CNC controlled machine designed for high precision measurements and inspections of gears, gear tooling, bearing rings, shafts, rotors, etc.
 - Inspect gears up to 50 inches
 - Provides independent gear reports to verify results from the Gleason machine.
 - Internal and external inspection
 - Double Helical, spur, bevel gears (both straight and bevel), worms,
 - Smart tailstock for optimal loading and to expand work area.

5. Shaping

- **48" Shaper**
 - Max Stroke Length: 8"
 - Designed for shaping large workpieces with precision.

6. Alignments

- **We perform in-place, on-site alignments.**
- **Laser – EZ Laser**
- **Conventional (dial indicators)**

7. ISO 9001 and ABS (Marine) Certification (in progress)