

ETC

Engineered Tools Corp.



GCS

GEAR CUTTING SYSTEMS

“Precision is our Product”

# Bevel Gear Tooling



# GCS

## Gear Cutting Systems



- Wholly owned division of Engineered Tools Corp. Started January 2006
- Dedicated exclusively to the bevel gear manufacturing industry
- GCS cutter Body repair facility opened in June of 2006 in Troy Michigan
- Entered exclusive sales representation agreement with Garha Utilbrocce Tools LTD India [GUTL]
- AGMA “Gear Show’ exhibitors 2007, 2009, 2011, and 2013

# Partnership with GUTL India



- GUTL is a manufacturer of HSS older style bevel gear cutting tools and work holding devices
- Compliments our Advanced manufacturing dry cutting bevel gear cutting tool offering
- Many facilities use both tooling systems
- We have increase global sales of GUTL products nearly 400% since 2007
- ETC has 100+ customers using GUTL products
- Strategic alliance of shared goals, customer focus and values

# Carbide and HSS stick blades



# Wire EDM blade profiles



- 6 axis CNC Wire EDM machines
- Exact duplicated blade profiles generated from customer supplied Gear summary data or master form samples
- Customer realized savings by reducing or eliminating rough blade grinding operations
- Frees up grinding capacity for cutter grind operations in customers facility

# Cutter body repair service



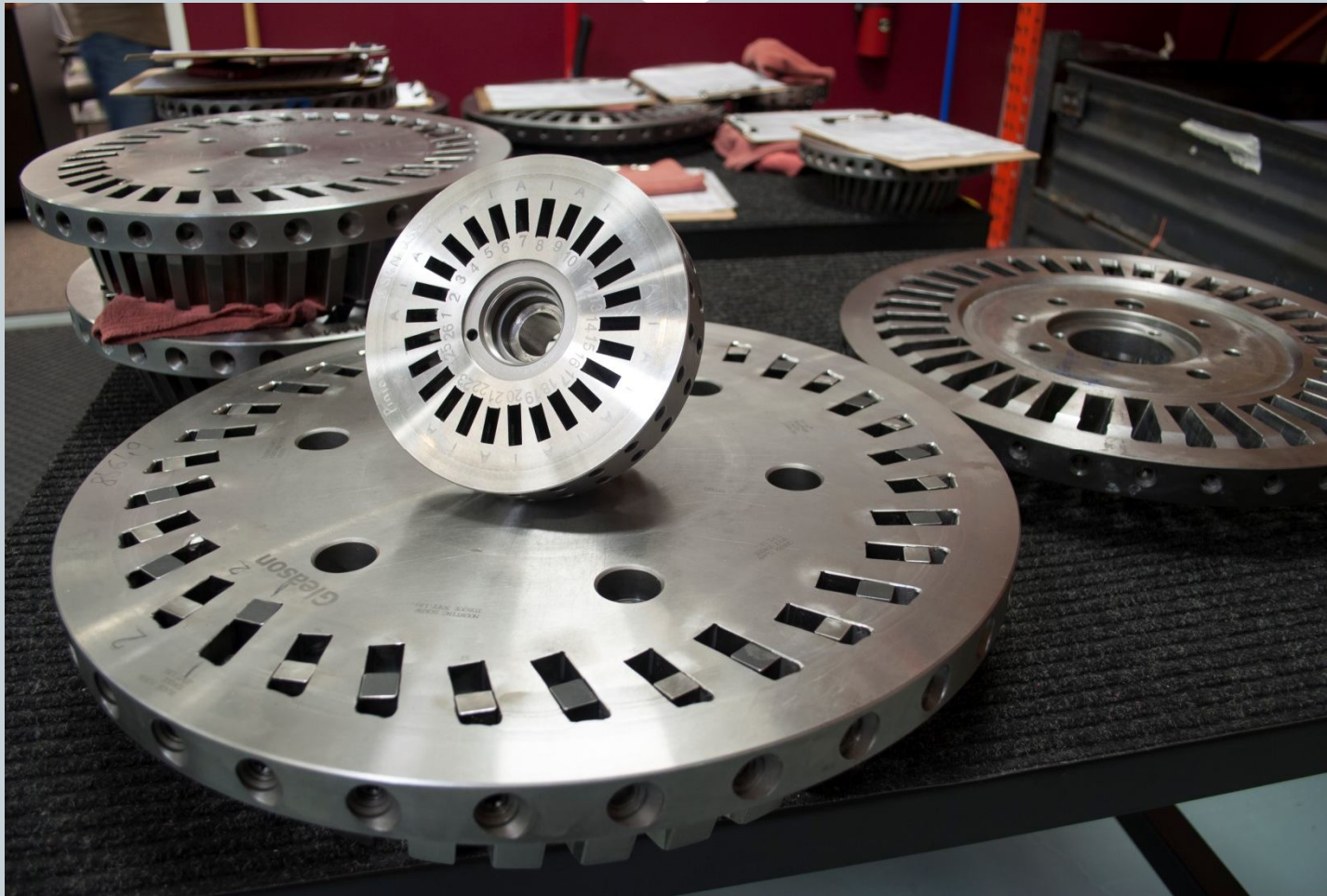
# Cutter body repair service overview



- Repair and recondition virtually any extent of damage
- Certified to Original equipment manufacturers specifications
- Since 2006 returned to service approximately 2000 cutter bodies of every style and size both Gleason and Klingelnberg
- Average repair costs less than 20% of replacement costs for new cutter bodies
- Approximate customer savings since 2006 opening of GCS \$18,000,000.00 Million



# Reconditioned cutter body sales



# Cutter body hardware



# High Speed Steel Spiral Bevel Blade sets



# High Speed Steel Straight Bevel Gear cutting tools



# Work Holding devices for Bevel Gears



# Conclusion



- Our focus is customer driven sales and service.
- Our ultimate goal is to provide customers with the very best value through our products and services
- Highest standards of quality, on time delivery, responsiveness and customer service
- We develop synergy with the manufacturing operatives in the production environment through establishing mutual goals, communication and developing trust through partnership.