

# The Delta Family of Companies

# DELTA



 DELTA  
GEAR

 DELTA  
RESEARCH

 DELTA  
INSPECTION

**REALTRAC**  
Performance ERP 

# Our Products Work Around The Clo



Delta Gear



Delta Research



Delta Research 2

**Delta Research was awarded the coveted Modern Machine Shop Magazine "2014 TOP SHOPS AWARD"**



Founded in 1952, the Delta family has evolved to manufacturing entire power-train, engine and gear projects from start to finish. Today, The Delta family of companies works with customers as a partner designing, engineering, manufacturing, testing and assembling component programs to maximize new technology, minimize lead time and product cost.



# ck Around The World



## Our Promise To You



The Delta family of companies knows what it takes to get your production or prototype projects completed on-time and on budget. As the owner of Delta's

family of companies I have helped grow the business based on one premise, "...to provide a fair and honest environment centered around quality craftsmanship with the ability to solve customer's problems."

Sincerely,  
Bob Sakuta - President, Delta Family  
Of Companies

## Delta – Providing Manufacturing Solutions

With more than 132,000 sq. ft. of climate controlled manufacturing space and over 150 employees and growing, Delta's family of companies offers a full range of expert manufacturing services.

- **Spiral Bevel Gears**
- **Precision Parallel Axis Gears**
- **Shafts**
- **Gear Box Assemblies**
- **Precision CNC 3, 4 and 5-Axis Machining**
- **Prototype Powertrains and Transmissions**
- **Master Gears**
- **Short Run Production**
- **High Volume Production Gears**
- **Curvic Couplings**
- **Higher Quality**
- **Lower Cost**
- **Outstanding Program Management**

# Industry-Leading Quality



## World-Class Precision Aerospace, Defense And Prototype Gears

### Committed To Quality

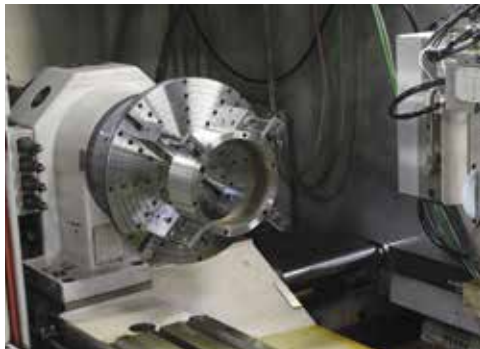
Delta Gear is committed to being World Class. We have the highest quality machine tools, most technically-advanced gear grinding machines, the best computerized work-in-progress and business controls in the industry, and the experienced personnel to effectively manufacture programs to the highest standards in the gear industry worldwide.

The commitment that sets Delta apart from competitors is our relentless attention to detail.

### Our Gear Expertise Includes:

- **Bevel Gears - Hypoid & Zerol**
- **Helical Gears - Internal & External**
- **Ring Gears - Internal & External**
- **Face Gears**
- **Geared Shafts**
- **Curvic Couplings**
- **Gearbox Housing Machining**
- **Gearbox Assembly & Testing**
- **Outstanding Program Management**





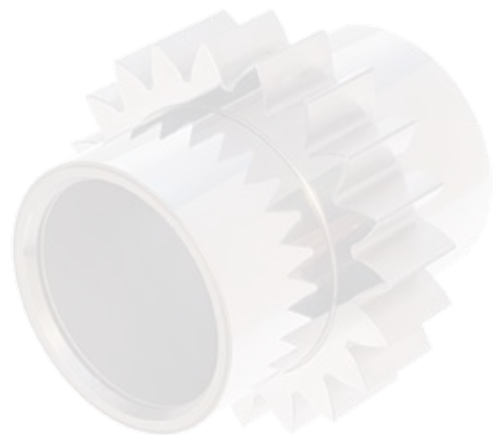
**Internal/External Helical - Up To 20"**



**Internal/External Gear Grinding to 32"**



**8 Studers - Precision Grinding**



# Aerospace Quality At Automotive Prices



## Old World Craftsmanship On The Leading Edge Of Technology

### **We Value Our Customers And Provide Ongoing Technical Support**

Delta Research has continued to grow by consistently providing ultimate quality precision parts and prototypes to customers on time and on budget. We do what others can't. We manufacture Aerospace quality products at Automotive prices. Delta provides insight on projects, provides solutions on designs and solves problems that occur during design. – We shorten lead time and save you money.

Our highly skilled employees' machining experience is so progressive, we frequently become manufacturing and assembly partners with our customers.

- **CNC Spiral Bevel Machining**
- **Precision 3, 4 and 5 Axis Machining**
- **CNC Gear Machining**
- **CNC ID, OD and Jig Grinding**
- **Lazer and Digital Gear Inspection**
- **CMM Inspection**
- **Robotic Cellular Manufacturing**
- **Outstanding Program Management**

We believe quality is only achieved with continuous advancements in engineering and manufacturing. Our experienced employees are experts and cross trained in multiple areas of manufacturing. Delta manufacturing excellence and commitment to quality is unparalleled.





**Höfler Viper 500 - Internal and external precision gear grinding up to 20 inches**



**Kapp KX 500 Flex - Production and Prototype precision gear grinding up to 20 inches**



**Reishauer RZ260 - High speed production gear grinding**



# World-Class Inspection



## High Precision Inspection & Testing

Inspired by the understanding that the industry needs expert abilities for contract gear inspection services, Delta Inspection has developed “World-Class” capabilities, equipment, facility and technicians to meet your inspection and testing requirements.

Delta Inspection provides contract gear and CMM inspection, laser scanning, touch probe scanning, dimensional inspection, sorting, composite testing, prototype testing and is a Nadcap approved non-destructive testing facility that provides Magnetic Particle Inspection (MPI) & nital etch and material testing.

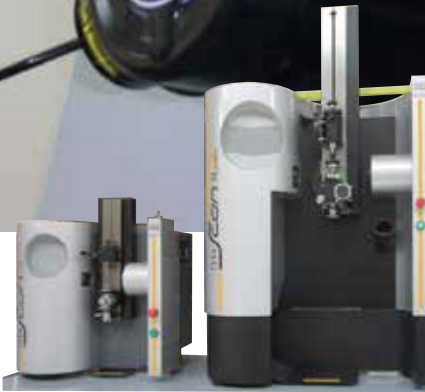
Our inspection technicians set us apart from other inspection labs. They possess experience and technical backgrounds in quality and metrology. Let Delta Inspection support you on your next inspection project.



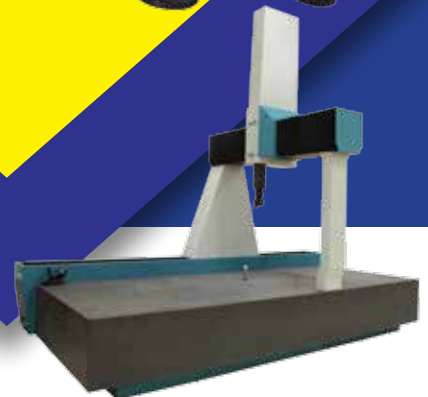




TESA Scanning



Wenzel WGT350 Electronic Gear Inspection

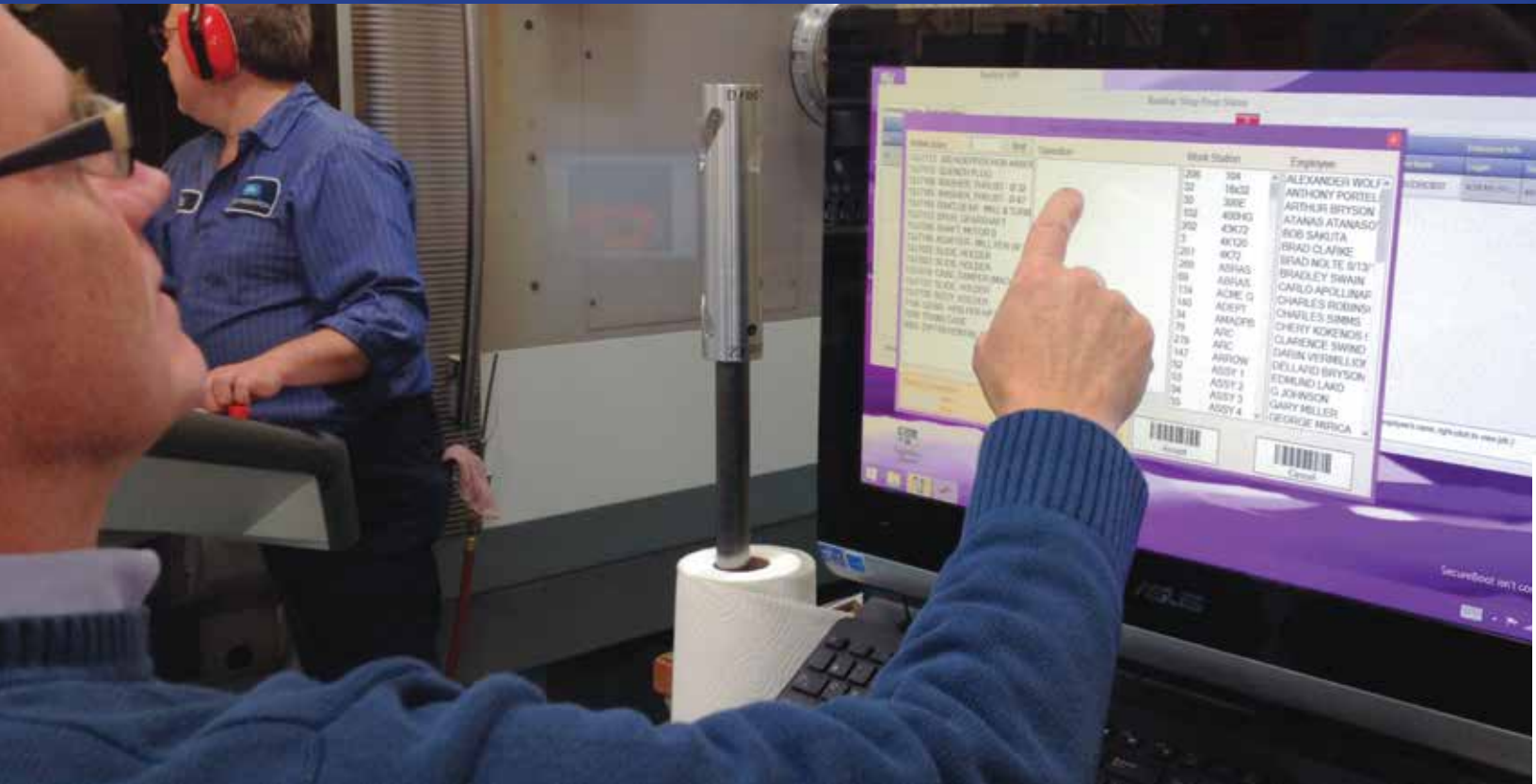


Wenzel LH1512 With REVO Scanning Technology

### Our Testing Capabilities Include:

- Gear inspection up to 39 inches (1 meter)
- Roundness and cylindricity inspection of bores and diameters
- Laser guided concentricity analysis
- Surface Testing
- Nadcap certified for nital etch and temper etch inspection
- Nadcap certified magnetic particle inspection
- CMM inspection with RENISHAW REVO scanning head capable of calculating 3,000 measurements/second - great for scanning turbine blades and propeller blades with complex profiles as well as difficult to reach locations (in addition to standard 3,4 & 5-Axis measuring)
- Single Flank Gear Testing
- Double Flank Gear Testing
- Unknown Gear Testing

# REALTRAC™ The *Easy* Shop Management System



Realtrac has been a big part of Deltas success for over 20 years. And, in their pursuit of continuous improvement, Delta bought the company. Realtrac Performance ERP is the “Lowest Total Cost of Use” Shop Management System on the market today for small to mid-sized manufacturers. Realtrac is fast, easy-to-learn and an easy-to-use product with true real-time visibility. Built upon a Real-Time platform, businesses are able to stay on top of job, labor, vendor and customer tracking. From estimating to quality conformance to accounting integration, Realtrac’s team has created a completely integrated, state-of-the-art manufacturing ERP system that boasts greater functionality and flexibility while maintaining its speed and ease of use. It will assist your entire operation, and play a significant role in improving your business efficiencies by reducing your costs and optimizing your business’s performance. Realtrac is: “Real Quick, in Real Time, with Real Profits”.



Realtrac was designed exclusively for machine shops, job shops and make-to-order manufacturers, while the software resides in the heart of Delta Research. Additions and adaptations are being developed daily. This allows Realtrac to be continuously evolving within the industry while designing the software to be even faster, even more powerful and easier to use. “Easy is quick, quick is profitable”! Whether you’re a start-up shop or have a mature business model, Realtrac will help you.

With Realtrac’s quick start implementation customers are running jobs very quickly, in days not weeks, with minimal to zero impact on their daily operations. The system was built in a machine shop and ease of use is a primary factor for our implementation. You don’t have to know computers to use Realtrac. Machine operators learn extremely quickly how to log on and off of jobs by just a touch of a finger. These factors ease the fear of implementation for shop floor managers and allow for a streamlined shop

“REALTRAC has taken a ton of stress out of my days – and nights and weekends; everything is there, where I need it, when I need it with just a few clicks. Our successful audits are attributed to the Realtrac software as it tracks every aspect of the audit. Not only has our company saved time – lots of time, but our last audit for AS9100 was perfect; not one thing was written up by the auditor and that is huge, in fact nearly unheard of”. “We used to take as much as four weeks to prepare for an audit, now we can prepare in a couple of days. So we save an incredible amount of time and got a perfect audit.”

**Jeff Piaskowski, Talsco Aerospace**

“We implemented Realtrac almost two years ago. We replaced another program which was too complicated and required constant training (and training expenses). We immediately found the difference between the 2 systems to be like ‘Night and Day’. Realtrac met the commitment to have us running in just a few days and within a few more days I found opportunities to improve our costs and throughput. In fact I discovered I was losing money on a couple jobs, which I thought were good for us. Realtrac helped me fix that. We have found Realtrac to be very easy to learn and intuitive. The Realtrac system, and the improvements we have made in our shop to use it well, have helped us grow and manage the growth effectively.

**Rick Dodaj, DPM Manufacturing**



integration. With the perfectly designed “On Site, SAAS program”, Realtrac offers affordable plans for any size company. These plans are designed to subsidize the fear job shops have about the costs of job shop software. Realtrac’s Shop Management Solutions continue to help companies to improve financial health, optimize operational efficiency, increase profitability and maximize growth.

See a demo at [REALTRAC.com](http://REALTRAC.com)



**REALTRAC Features Include:**

- Total Shop Floor Control
- Estimating
- Fastest Job Set Up
- Quality Process Support
- Accounting Integration
- Complex Jobs / Assemblies
- Inventory Control / Purchasing
- MRP / B.O.M
- Shop Loading & Scheduling
- Employee & Labor Tracking
- Management Dashboards
- Cloud Backup Solutions



**Easy**  
The Enterprise Resource Planning Software

# Here's How We Can Help You

- Outstanding Program Management Expertise
- CNC Spiral Bevel Machines
- 13 CNC Gear Grinders (up to 30 inches)
- 5 CNC Gear Shaping Machines (up to 30 inches)
- 9 CNC Gear Hobbers (up to 20 inches)
- 10 CNC Gear Inspection Machines (Spur, Helical or Spiral Bevel up to 36 inches)
- 17 CNC High Precision Mills (3,4 & 5-Axis Machines up to 70 inches)
- 8 CNC CMM Inspection Machines (up to 120 inches)
- Unigraphics, MasterCam, Pro-E, Solidworks, AutoCAD
- 16 CNC Lathes (up to 30 inches)
- 3 Manual Gear Hobbers
- 6 Manual Gear Shaping Machines
- Automated Robotic Gear Cells
- 132,000 square feet of air-conditioned facility space between 3 facilities

**Delta Research** - Prototype and production transmission components and assemblies for the automotive, defense and aerospace industries.

**Delta Gear** - Precision Aerospace Gears – We make the world's finest gears.

**Delta Inspection** - Full Service Third Party Inspection (main emphasis on gear and transmission metrology).



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