

# Metals Testing Company - Overview

## Company Overview

Since 1962, Metals Testing Company, Inc. (MTC) has been providing high quality laboratory based inspection services for both commercial and military applications. Markets that we serve range from commercial and military aircraft and aerospace to power generation and automotive industries. No job is too large or too small to accommodate.

## Unique Strengths

We are an independent inspection facility that has amassed the following unique capabilities that are at our customers' disposal:

### One-Stop NDT Service

We have the complete range of in-house capabilities from metal etch to FPI, MPI, and color C-Scan UT. Once parts are delivered to our facility for NDT services, they stay at our facility the entire time as opposed to being sent out to accomplish an intermediary NDT step.

### Quick Turnaround

Hand-in-hand with being able to accomplish everything in-house, we eliminate intermediate transit time loss as well as dependence on a third party to meet critical schedules. We are staffed and equipped to handle your emergencies. We also have a single point decision maker (i.e., 1 combined owner and president) that can make schedule promises and immediately implement them.

### Blue Etch Anodize

One of our technology strengths is a complete in-house **Blue Etch Anodize** capability to serve the demands of the Titanium industry. With regard to aircraft engine manufacturers, we are one of the few approved independent laboratories in the world that is certified to perform BEA inspections.

### Complex Contour Following Color C-Scan UT Imaging

Another unique technological advantage we have is an in-house developed complex contour following motion control system associated with our UT immersion tanks. This capability has been integrated with an IntraSpect UT advanced C-Scan imaging system. It has resulted in the only system in the world capable and approved to inspect advanced fan blade bond lines outside the walls of the engine OEM.



## Company Capabilities

In 1990, we moved into a new 12,000 ft<sup>2</sup> facility - custom designed and built to specifically meet the needs of our NDT laboratory inspection service business. Our in-house capabilities include the following Nondestructive Testing (NDT) technologies:

### Immersion and Contact Ultrasonics (UT)

Equipped with state-of-the-art digital equipment, our immersion UT capabilities are constantly applied to inspect critical aerospace related rotating parts, welds and brazes. We have also invested in color C-Scan imaging equipment that can provide C, B and A-Scan views for RF and video recorded data. In addition, we have the necessary instrumentation and personnel to conduct contact UT on complex geometry parts, such as ground based turbine blades, vanes and any other parts consisting of welds or brazes.

### Chemical Etching & Etch Anodizing

We have one of the most updated and fully equipped "acid rooms" in the US to perform numerous NDT and cleaning operations.

### Fluorescent Penetrant Inspection (FPI or FT)

Where applicable, our FPI capability is further enhanced by on-site metal etching as a pre-cleaning process. Defects down to .005" can be found with our standard FPI.

### Magnetic Particle Inspection (MPI or MT)

Lastly, we also have an extensive capability for MPI.

## Certifications & Approvals

We are a yearly re-certified, NADCAP approved, inspection laboratory since 1992. We are also on the approved supplier lists of various Fortune 500 industrial customers, including the big three jet engine manufacturers: GE, P&W and RR.

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