

# Weir precision measurement technology

- alignments
- leveling
- bore verification
- flatness
- parallelism
- surface deformation

**Greatly reduced time with superior accuracy!**

**Articulating Arm**

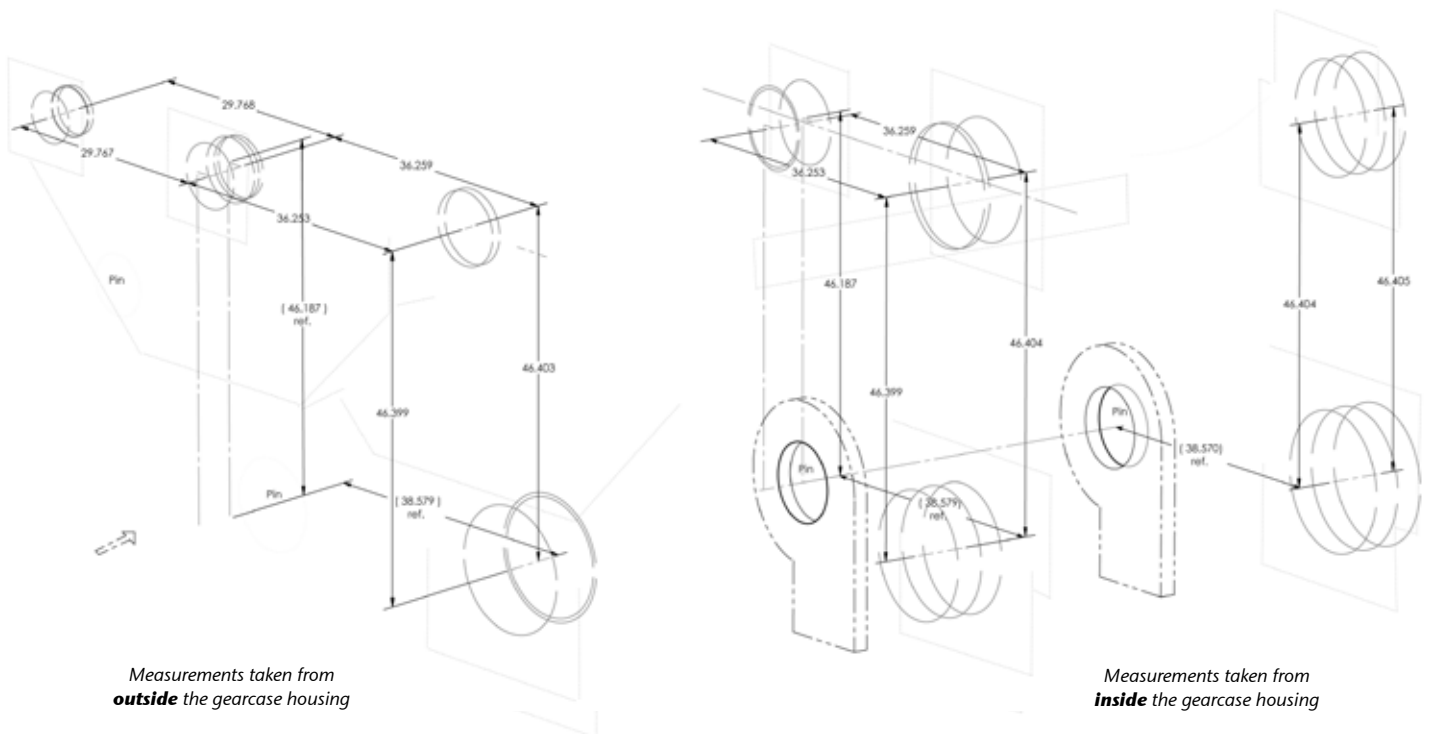


**Laser Tracker**





**Gearbox bore alignment** - During overhaul, boring tools are aligned prior to boring to ensure that bores are set precisely parallel with each other and to the correct spacing.



Measurements taken from **outside** the gearcase housing

Measurements taken from **inside** the gearcase housing

**Portable Articulating Arm and Laser Tracker**



**The ultimate portable CMM!**

Our arm's  $\pm .013$  mm ( $\pm .0005$ " ) accuracy renders traditional CMMs, hand tools and other portable inspection equipment obsolete. We can now inspect, reverse engineer or perform CAD-to-part analysis on parts, fixtures and assemblies with previously unheard of precision. When you partner that accuracy with its adaptable 3-D measurement technology and customized SoftCheck Tools (with or without CAD), it is ideal for forming, molding, fabricating, casting and assembly facilities needing basic 3D measurements.

**Most common applications**

**Aerospace:** alignment, tooling and mold certification, part inspection

**Automotive:** tool building and certification, alignment, part inspection

**Metal fabrication:** OMI, first article inspection, periodic part inspection

**Molding/tool and die:** mold and die inspection, prototype part scanning



#### **Xtreme measurement range!**

Our Laser Tracker is a portable, contact measurement system that uses laser technology to accurately measure large parts and machinery across a wide range of industrial applications. It has a 70m (230 ft.) range, achieves 0.025mm (0.001") 3-D single-point accuracy, and is rugged enough for the shop-floor environment. The system measures 3-D coordinates with its laser by following a mirrored spherical probe. The system can run in two modes: XtremeADM (Absolute Distance Measurement) and Interferometer; making it the most accurate and flexible measuring tool.

#### **Most common applications**

**Aerospace:** inspection and certification, automated assembly systems

**Automotive:** tool certification and repeatability, reverse engineering

**Tool and die:** master molds, tool setup, composite tooling

**Heavy equipment:** in-process/large part inspection, installation and alignment



**Dimensional inspection of hydro electric power equipment**

Shaft straightness and rotor face run out are checked quickly and with great precision. The bearing journal is checked for roundness and concentricity to shaft centerline.



**Equipment distortion check**

The flange of this gas turbine exhaust support cone is checked for face parallelism, bore alignment and roundness.



**Pumps in series – discharge and intake alignment**

The pump positions are adjusted to ensure flange parallelism after being levelled. This will enable pipe spoils to fit precisely, reducing the potential for damaging pipe stress.

## Call us today

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