

Powered.Empowering™

DEPENDABLE  
IMAGINATIVE  
EFFECTIVE



*inspired by perfection*

PORTFOLIO OF SERVICES AND PRODUCTS

[acquip.com](http://acquip.com)



## Inspired by perfection

At ACQUIP alignment is our passion. We strive to provide you with the most cost-effective and dependable solutions. ACQUIP is the industry leader in field alignment services. For us no project is too large or too small. We use the most innovative technology available and adapt it to uncommon problems.

ACQUIP Services specializes in rotating equipment alignment services for the power generation, oil, gas and petrochemical industries.

### 3D LASER TRACKER METROLOGY THE WORLD'S MOST ACCURATE

With our state -of- the -art 3D Laser Trackers, our engineers can take high-speed alignment measurements more quickly and accurately than any other previous alignment method. The laser tracker is a portable coordinate measuring machine (cmm), which enable us to optimize processes and get valuable information to provide 3D metrology solutions.

Among several other services our ACQUIP 3D Laser Trackers provide:

- 1.- Internal Alignment
- 2.- Dimensional Services -GD&T- Services
- 3.- 3D Large Part Inspection
- 4.- Reverse Engineering



video



case study

### 3D LASER SCANNING SERVICES DIGITAZING THE WORLD

ACQUIP now provides three-dimensional scanning services. We can capture complex surfaces taking millions of points to reproduce digital models of components and environments.

ACQUIP services can compare these models with your CAD designs or drawings for different purposes. In addition, we can produce a virtual simulation of your scans to document your projects.

Some of our 3D Scanning Services include:

- 1.-Retrofits
- 2.-As-Built Documentation
- 3.-Asset and Facility Management
- 4.-Building Information Modeling
- 5.-Non-Contact Inspection



video



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## **GAS TURBINE ALIGNMENT** FAST & COST-EFFECTIVE

When time and productivity is crucial, ACQUIP offers the most accurate and fast gas turbine internal laser alignment available in the industry. Our laser alignment service can be performed in less than half the time of traditional methods. Our patented bracketing system can be used while the compressor blades are installed or removed. It records the data points in the computer, while it is configured to the bearings preset conditions. With ACQUIP every gas turbine alignment is fast and cost-effective.

 case study

## **STEAM TURBINE ALIGNMENT** SAVE YOU VALUABLE DAYS

Our ACQUIP professionals have extensive experience with GE® (diaphragm) & Westinghouse® (blade ring) steam turbine alignment. Our steam turbine alignment service is speedy, precise and 100% effective. It can be applied to turbines of varying sizes. ACQUIP can save you valuable days during the internal alignment process.

 case study

## **DYNAMIC MOVEMENT STUDY** THERMAL GROWTH MONITORING

At ACQUIP, we know how critical it is to have rotating equipment aligned at hot operating conditions. We configure your machines according to the coupling alignment targets. Our thermal growth monitoring services facilitate maximum running efficiency and productivity.



case study

## **MACHINE TRAIN ALIGNMENT** COUPLING ALIGNMENT

ACQUIP machine train laser alignment is proven to eliminate the most common causes of machine vibration.

A proper coupling alignment increases the mean-time between failures, bearing and seal life, and decreases power loss. We quickly improve the running condition and dependability of your machines. Our techniques allow for minimal moves to get the machine to optimal alignment conditions.



case study

## **THEORETICAL TOPS ON ALIGNMENT** EXPRESS ALIGNMENT

Our patented Express Alignment provides the best alternative to a tops on/tops off steam turbine alignment. Every internal component position is recorded at its original "as found" state. This data is then used to formulate a theoretical tops on position. With our Express Alignment approach you get fast, reliable and accurate readings. It saves you time because all the components are placed into a carefully calculated position without putting the top on.



[acquip-services.com](http://acquip-services.com)

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## Driven by results

Renting plant maintenance equipment with ACQUIP Rentals can be a powerful cost-effective solution. You pay only for it when you need it. You benefit from the latest technology. Not only will the equipment come with a complete set of tools, but it will be fully, operational, calibrated and ready to be used. Renting additional equipment is a great idea to back up your current equipment during outages and turnarounds. You will also receive tech support via phone or email. If you need assistance operating the equipment and understanding

### 3D LASER SCANNER FARO FOCUS 3D Scanner™

The new ACQUIP Rentals high-speed laser scanner tool from FARO Technologies, allows you to measure and document detailed three dimensional images, from complex environments and geometries as fast as recording video with a Digital Camera



### 3D LASER TRACKERS FARO ION and VANTAGE Laser Trackers™

The new ACQUIP Rentals laser tracker alignment tool from FARO Technologies is an extremely precise and portable coordinate measuring machine (CMM). FARO enables you to streamline processes expedite new product development and provide metrology solutions for different kinds of applications for specific industries, such as power generation, mining, aerospace, automotive, automation, petrochemical, and heavy-duty machinery among others.

The advantages you get renting our laser tracker:

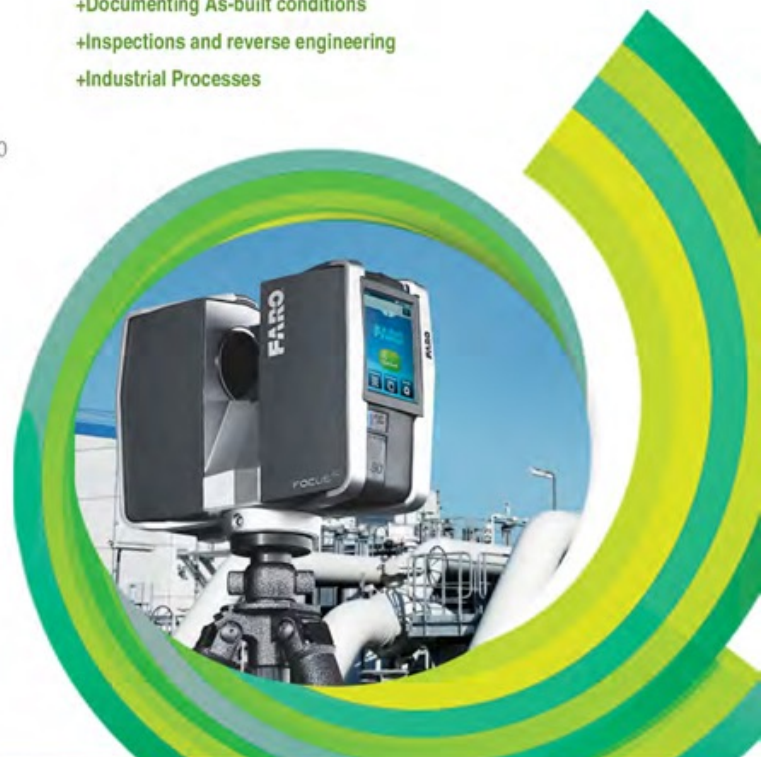
- +3D advanced technology
- +Long range for easy measurement of large rotating equipment
- +Lightweight: makes it easy to handle and transport
- +Highly accurate to provide dependable results
- +Eliminates rework, which means cost-effective processes



- +3D advanced technology
- +Intuitive touchscreen display
- +Documenting As-built conditions
- +Inspections and reverse engineering
- +Industrial Processes



faro-rental.com



## LASER ALIGNMENT SYSTEMS ROTALIGN® & OPTALIGN® SERIES

ACQUIP provides a full line of laser shaft alignment systems. We feature the Pruftechnik® product line to include the Rotalign® and Optalign® series of laser alignment systems. We equip our laser alignment systems with a full array of bracketing and options for wireless communications.



video

## ERAG SYSTEM ELECTRONIC RADIAL ALIGNMENT GAUGES

The Erag system is a quick and easy way to check the alignment of diaphragms in relation to the rotor position during a turbine outage.

Our Erag tools come with both LCAT and SCAT modules. These systems are always complete and ready to perform within tolerance.



video

## BEARING HEATERS INDUCTION HEATERS

ACQUIP provides induction heaters for bearing and coupling installation. We have a full line of systems to accommodate your bearing size and weight.



## THERMAL GROWTH / DYNAMIC MOVEMENT PERMALIGN® SYSTEM

We provide the Permalign® system for continuous monitoring of thermal growth and positional change. We have easy to use diagrams and instructions for setup and data analysis.

## LONG TERM LEASING ALIGNMENT SYSTEMS

Do you need an alignment system to be available at all times but don't want to purchase one? we have options for annual leasing of an alignment system. This is a great option if you always want to have the latest technology and don't want to worry about maintenance or calibration.



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## *Living by knowledge*

"Tell me and I forget. Teach me and I remember. Involve me and I learn." - Benjamin Franklin

We want to share our rotating equipment experience with our students. Our trainees will leave with the knowledge and experience to succeed.

Knowledge is defined as an understanding of facts and information. We pack our training seminars with the experience-based knowledge we have acquired from working with hundreds of groups in a variety of settings and situations over the years.

### **CUSTOM TRAINING COURSE**

#### **TAILORED CLASSES**

If you have a specific training goal or course objective, Acquip is able to tailor an alignment training class to your needs. Provide us with your requirements and we will provide you with several options to choose from.

### **ON-SITE TRAINING**

#### **SHAFT ALIGNMENT CERTIFICATION**

We provide alignment training to your in-house maintenance personnel and engineers. This hands-on class sharpens your staff's skills allowing them to go from alignment basics to the most advanced alignment methodology. Acquip alignment engineers will travel to your location and perform the training. This cost effective option sets out to train 6- 8 members of your staff in both the fundamentals and specifics of your alignment system. Get your shaft alignment certification!



## DISTANCE TRAINING

### INTERACTIVE & CONVENIENT

Acquip provides online training. Complete an alignment training course at your own pace. View training modules with video instruction. You will be able to access interactive modules that will challenge you and test your knowledge. You will have the opportunity to get your shaft alignment certification.

## ALIGNMENT SEMINARS & WORKSHOPS

### TRENDS & INDUSTRY UPDATES

Acquip provides alignment seminars for large groups. These seminars include the same course work as in our smaller classes, except these include the hands-on instruction.



[acquip-training.com](http://acquip-training.com)

## TRAINING AT OUR SOUTH FLORIDA FACILITY

### THE SUNNY LEARN AWAY™

If you only have one or two personnel that need alignment training, Acquip provides you scheduled alignment courses at our offices in Miami Beach. This is a comprehensive shaft alignment training course where you will be working with an alignment simulator the very first day. The shaft alignment certification exam is given at the end of the class.





*On-site training for your specific application.  
Gets you going and on your way™*

Jumpstart is a new innovative product from ACQUIP that integrates our state-of-the-art rental equipment, with the best practices tailored to your application. Jumpstart is the result of years of Field Service experience in a variety of industries. You will also receive technical support to ensure the success of your project. JumpStart gets you going and on your way!

**JumpStart™ Solutions:**

- Metrology Services
- 3D Scanning Services
- Laser Alignment
- Dimensional Inspection
- Reverse Engineering

**JumpStart™ Service Benefits:**

- ACQUIP service engineer
- State-of-the-art equipment rental (Software included)
- On-site technical support to start your project
- New skill-set added to your team in advanced technologies
- Cost-effective solution to your needs



ACQUIP Services has the talent, expertise and experience to perform laser alignment quickly and accurately. GenMover has the technology, equipment and capability to quickly align your generator to the required position. Genaxis provide the two axis for the total Alignment.

Two Companies, two steps, two axis. Laser alignment precision movement. Horizontal & Vertical. Reach Singularity Genaxis™ your generator Total Alignment.





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