



**FLUKE**®

# Maximize Efficiency & Reliability with Precision Alignment tools from Fluke



## Reduce Operational Costs

By minimizing wear and tear, our solutions decrease energy consumption and prevent expensive downtime.

## Enhanced Accuracy & Speed

Our systems deliver fast, precision alignments with advanced software analytics for straightforward, efficient maintenance. Single laser technology cuts setup time by 50%.

## Versatile Applications

Perfect for a wide-range of industries and applications, from standard machines, critical machines with multiple couplings, plus cardan shaft driven machines.

## Rapid Time-To-Value

Save machines the same day your tool arrives – immediate return on investment, plus correctly aligned machines consume less energy.

## More Uptime, Lower Costs

Customers have typically cut maintenance costs by 40%, reduced number of repairs by 30%, and annually saved \$12.5k per machine.

## Simplified Reporting

Demonstrate your reliability program's ROI with an app that allows you to report, share results and user management for data-based decision making.

**Fluke Alignment Tools** help you move from reactive to predictive maintenance.



**Increase Asset  
Lifespan**



**Cut Maintenance  
Costs by 40%**



**Maximise Uptime  
and Revenue**

# Why Choose Fluke Laser Alignment Technology?



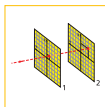
## Single-laser technology

Fluke laser alignment systems leverage technology that uses only a single laser beam. Coupled with double detectors, this makes them easy to install and guarantees maximum precision, even in the event of extreme angular misalignments.



## Active Situational Intelligence

Active Situational Intelligence (ASI) is a groundbreaking problem-solving technology, exclusive to the Adaptive Alignment systems from Fluke. ASI helps the user avoid mistakes while working quickly and precisely to measure and align machines.



## IntelliSweep™

With the intelligent IntelliSweep™ HD measuring mode, interference factors such as coupling play, angular misalignment, or external vibration sources can be easily identified by the user and eliminated from the system in order to avoid poor measurement data acquisition quality. As soon as the shaft rotates, a large amount of data is automatically and continuously recorded. The repeatability and the measuring precision are thus many times higher than with conventional measuring methods based on a three-point circular measurement calculation.



## RotAlign™

The patented RotAlign™ sensor technology features a built-in inclinometer and vibration measurement. This is based on the use of a microelectromechanical system (MEMS) that measures over a total of seven axes. The XXL HD PSD sensor forms the basis for this. With this superior RotAlign™ technology, our intelligent IntelliSweep™, Simultaneous Live Move, and Quality Factor measuring modes, we achieve repeatable and precise measurement results in every area of misalignment.

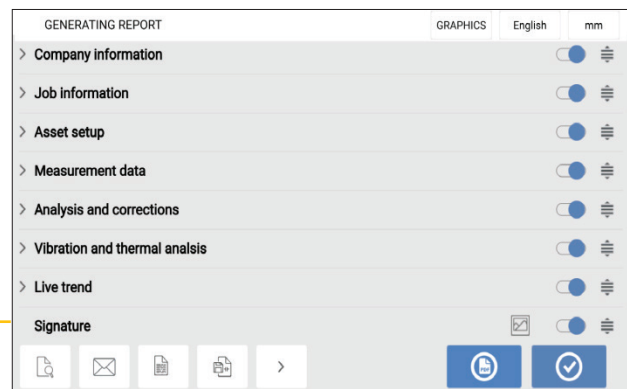


## IntelliPass™

With the intelligent IntelliPass™ measuring mode, based on IntelliSweep™, decoupled shafts can be measured and aligned to each other. For this purpose, the two measuring heads - sensor and laser - are rotated past each other in different angular positions. The measurements are taken automatically as soon as the laser beam hits the center of the sensor.

## Customizable Reports

Create tailored reports with ease using RotAlign™ flexible reporting options. Choose from pre-installed full or short templates or use your own custom layouts. Select exactly what data and graphics to include, rearrange major sections to suit your workflow, and save personalized templates for future use—ensuring every report meets your team's needs with precision and efficiency.



## Built-in ROI Calculator

The integrated ROI calculator in the RotAlign™ app provides instant visibility into the financial benefits of precision alignment. By calculating savings from reduced power, extended equipment lifespan, and improved energy efficiency, users can quantify the value of each alignment task. This feature supports informed decision-making, helps justify maintenance investments, and enhances operational efficiency—all within a single, user-friendly interface.

ROI POWER SAVINGS RESULTS	
Reduced misalignment	0.98 mm / 1.34 degrees
Power loss / saving	6.35%
Cost of power per kWh	€ 0,36
Operating hours per day	24
Operating days per year	365
Annual power saving on Asset operating on 80% capacity	€ 5 604,75

# Your Alignment Tool Your Way, Your Choice

## Tablet

Choose from Open or Locked Tablet or simply download application to existing Android tablet of your choice

### Fluke Alignment App



## Laser & Sensor Heads

Choose Laser & Sensor to suit your application needs

### RotAlign Elite



### RotAlign Core



## Feature Bundles

Add the right software solution with upgrade options to suit your needs.

Feature Bundle	
<b>RotAlign Core Starter</b>	Horizontal Standard Machines (e.g. Motor – Pump), Anti-Friction Bearing / Ball Bearing, with Short-Flex couplings
<b>RotAlign Core Advanced</b>	Larger and more critical Machines, Dynamic Machines (Temperature or load related movement), Wind Turbines, Propeller Shaft in Ships, Spacer Coupling, Single Plane Coupling, No Coupling, Vertically mounted Machines with Short-Flex Coupling
<b>RotAlign Core Expert</b>	Turbo Machinery (More critical and higher speed), 3 Machine Train, Sleeve Bearing / White Metal Bearing
<b>RotAlign Elite Starter</b>	Gas Turbines, Cardan Shafts, 6 Machine Train, Uncoupled Shaft
<b>RotAlign Elite Starter Plus</b>	Every Machine Setup Any vertical machine type: Vertical Spacer Coupling, Vertical right angle gearbox
<b>RotAlign Elite Advanced</b>	Cardan Shafts (without removal of cardan shaft)
<b>RotAlign Elite Expert</b>	Large machines with multiple couplings, Cooling Towers, Steam Turbines, Pipe Strains, 14 Machine Train

# Which alignment tool and bundle is for me?

Why Choose RotAlign Core?	Why Choose RotAlign Elite?
You want a cost-effective laser alignment solution that is easy to use	You want the best, most capable laser alignment solution that covers everything from basic machine setups to the most advanced
You need a compact, non-adjustable laser for easier setup for standard machines	You need an adjustable laser with higher angular resolution for more complex alignment challenges
You only have 3 machine trains or less to align	You have more than 3 machines to align (up to 14 train machines possible)
You do not need Cardan Shaft Capability	You would like to monitor in real-time the dynamic machine movement to derive machine pre-sets
You only have standard vertical machines to align	You carry out vibration measurements during alignment troubleshooting
You have no multi-coupled machines to align	You have cardan shaft connected machines to align
You do not need the more advanced Intelli modes and features	You want the highest form of repeatability and advanced features that come with the Intelli modes

## RotAlign Core & Elite Bundles

	Core			Elite			
	Starter	Advanced	Expert	Starter	Starter Plus	Advanced	Expert
Short-Flex coupling & Tolerances	✓	✓	✓	✓	✓	✓	✓
Live Move H and V	✓	✓	✓	✓	✓	✓	✓
SoftFoot	✓	✓	✓	✓	✓	✓	✓
8-Point Active clock	✓	✓	✓	✓	✓	✓	✓
Static Feet & Multiple Feet	✓	✓	✓	✓	✓	✓	✓
Quality Factor & SD	✓	✓	✓	✓	✓	✓	✓
Spacer Coupling		✓	✓	✓	✓	✓	✓
Thermal Growth & Coupling Targets		✓	✓	✓	✓	✓	✓
Vertical Alignment		✓	✓	✓	✓	✓	✓
Continuous Sweep & MultiPoint			✓	✓	✓	✓	✓
3 Machine Train			✓	✓	✓	✓	✓
Post Processing by Edit Points			✓	✓	✓	✓	✓
6-train machines				✓	✓	✓	✓
Pass mode				✓	✓	✓	✓
Cardan shaft				✓	✓	✓	✓
Move Simulator					✓	✓	✓
Advanced Vertical					✓	✓	✓
Softfoot Diagnose					✓	✓	✓
In-Sit Cardan Shaft						✓	✓
Intelli modes						✓	✓
Vibration						✓	✓
14-train machines							✓
Multi-coupling							✓
Live Trend							✓

**Fluke.** Keeping your world up and running.™

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 12/2025 250856-en

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