

**FARO**



THE **FARO®** GAGE



**FARO**  
GAGE PLUS

www.faro.com

Measurement Capability

12 On-machine inspection

14 Tool Setup

16 One-Off Inspection

18 Value Added Services

## About FARO

Accuracy and reliability when you need it, where you need it. These are just two of the many reasons why FARO has some of the world's best-selling measurement instruments in their categories.

FARO enables customer success through the most friendly and efficient products and experiences, a culture of innovation, and an absolute commitment to reliability at all touch points.

As the pioneer in portable computer-aided measurement, we apply our unique knowledge and understanding of our clients' business goals to help them succeed. FARO's solutions translate into increased time-savings, productivity, and profitability for our clients.

## Quote from Table -> ES

“Utilizando el FARO Gage ahorramos en la sección de mecanizado unas 278 horas hombres por año, en la sección de verificación unas 833 horas hombre por año, es decir, en total unas 1111 horas hombres por año.”

Javier Jiménez Pérez, Quality Manager at Iberia



## Why FARO Gage

The FARO Gage is the cost-effective solution to metrology needs on the shop floor. Setting up in seconds, it allows parts and assemblies to be measured directly on the machinery producing them.

Faster, more accurate measurements increase production and enhance productivity. The FARO Gage saves time and money by improving upon conventional gauging tools such as calipers, micrometers, height gauges, depth gauges, and even rulers and tape measures.

Made specifically to be used by shop floor personnel, the FARO Gage is easier to use than fixed CMMs, but it is accurate and powerful enough for advanced measurements including SPC analysis and GD&T.

With a 48" (1.2m) working volume and up to .0002" (.005mm) accuracy, the FARO Gage offers accuracy comparable to a fixed CMM with previously unheard of portability.



The best-selling small portable CMM for accuracy on the shop floor.

Accuracy up to 0.0002" (0.005mm)  
Working volume of 48" (1.2m)  
Universal 3.5" Quick Mount for portability and convenience  
Internal counterbalancing for ease-of-movement measuring  
Overload sensors ensure high accuracy

The FARO Gage, your "personal CMM"



Temperature and overload sensors are located in each joint of the FARO Gage. They compensate and react to thermal variations and improper handling to maximise accuracy. The overload sensors constantly monitor the device for positions and stress that compromise accuracy. The temperature sensors reduce fluctuations in measurement accuracies or "measurement drift" by actively responding to changes in temperature.

The FARO Gage's internal counterbalance allows the user to move the Gage with one hand without becoming fatigued. This comfortable, stress-free measuring is ideal for repetitive, production line part measurement.



### Quote from Table -> DACH

"Mit der PowerGage konnten wir die Messzeiten dramatisch reduzieren. Im Vergleich zu früher sind wir heute doppelt so schnell – ein beeindruckender Wert! Nicht zuletzt deswegen hat das Messsystem unsere Erwartungen sogar übertroffen. Ich würde die Hardware schon alleine deshalb jederzeit weiter empfehlen, weil sie sehr flexibel ist."

Armin Schneider, Quality Engineer at SKF

## FARO Gage Family

The FARO Gage Standard and Gage Plus are the industry's first line of personal Coordinate Measuring Machines (CMMs). With their 1.2m (48") working volume, they are the "mount-it-to-where-you-make-it", truly portable, cost-effective, 3D, minimal-training gages for machinists. The FARO Gage product line replaces all conventional gaging devices with an expandable library of gaging tools. Save time and money by replacing your cluttered inspection area with the one tool that can do it all.

Bringing new power to in-process inspection and CAD-to-part verification, the PowerGage includes a high-powered, easy-to-use programmer module, no-train "player" module, and extremely accurate 4-foot measurement arm. Program it once and you're done, even directly use CAD data for nominal. It was designed by and for machinists to speed through measurement challenges and produce the most accurate results available. Shop-hardened and temperature-compensated, it allows anyone, anywhere to measure in 3D with previously unheard of precision.

"The time-savings using the FARO Gage are significant. Measurements are faster and more convenient than with a traditional CMM. The flexibility, portability, and accuracy of the FARO Gage-PLUS along with its ease-of-use made the decision for us."

Rob Muru, President and Owner of A-Line Precision Tool

Quote from Table -> BNL, IT, PL  
quote ist noch nicht vorhanden

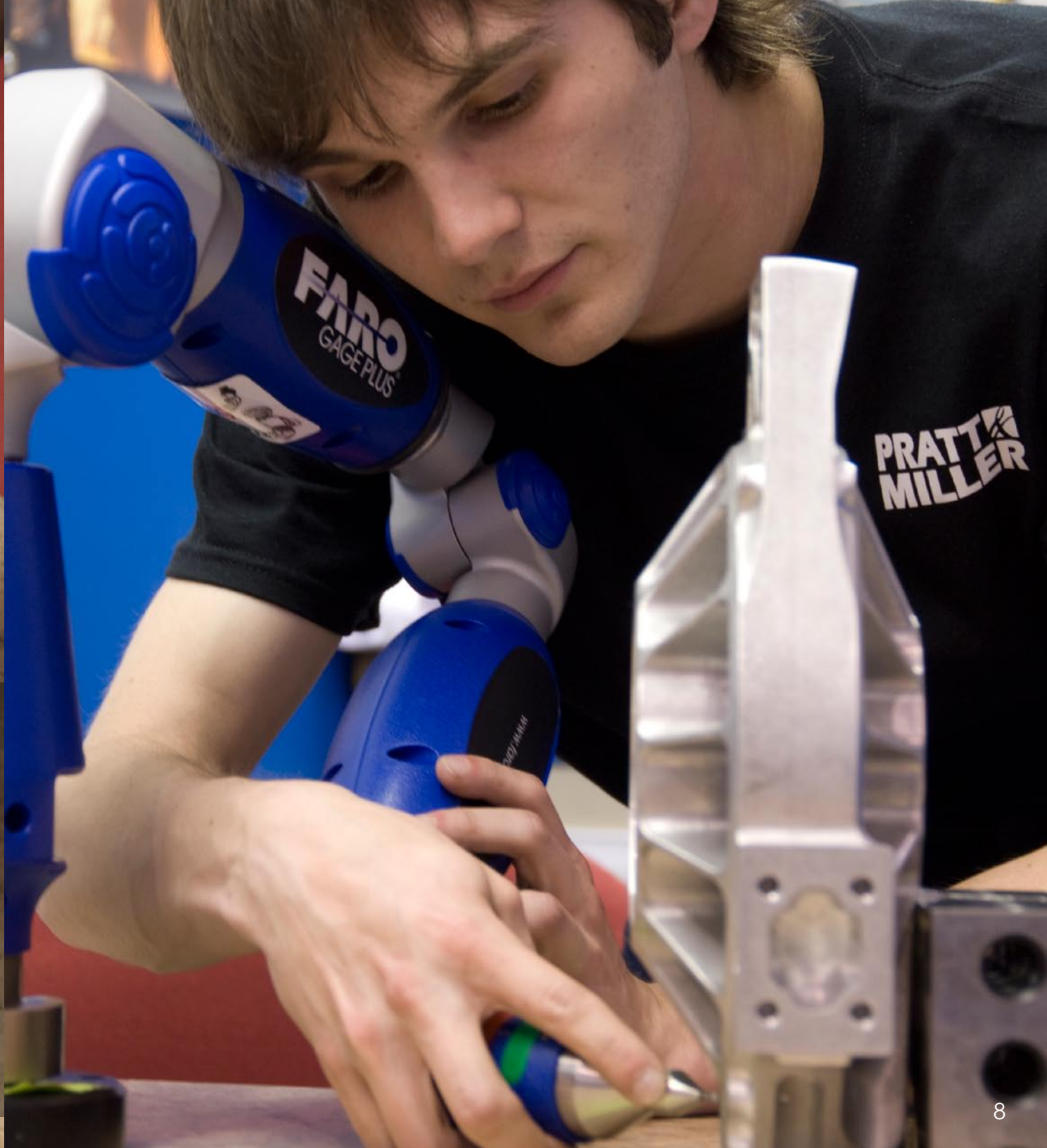
## Geometric Measurement Capability

Save time and money by improving your cluttered inspection area with the one tool that can do it all.

The FARO Gage performs all of the functions of traditional portable measurement instruments and automatically generates quality-standard reports.

Measurement reports are available anytime at the push of a button – minimising the possibility of errors or omissions in documentation.





All part geometries can be measured and recorded:

- Angles
- Diameters and centers
- Planes
- Lengths

Including features such as:

- Holes
- Cones
- Planes



**FARO**  
GAGE PLUS

**Ketterer**  
GETRIEBEBAU

**TRIGO**  
SPANNTECHNIK



## Quote from Table -> UK

“We can now inspect parts with complicated geometry within the machining area which is another big time saving, because we can inspect the part on the machine.”

Keith Crawford, Managing Director at Pacson Valves

# 3D Measurement Capability

The FARO Gage is the simplest 3D inspection tool for all GD&T measurements. The easy-to-use software significantly reduces the possibility of user error or mismeasurement. The software is intuitive and requires minimal training, as the user interface guides operators through measurement functions.

Simplified measurement for:

- true position
- concentricity
- flatness
- straightness
- parallelism
- roundness
- perpendicularity





"With the FARO Gage, we can inspect parts where we want and how often we want. The on-machine capability of the Gage proves we have a good part, without the need to repeatedly stop production and run to a fixed CMM. It's a real time saver."

Dennis Woodall, Shop Manager at Amtec

Quote from Table -> BNL, IT, PL

quote ist noch nicht vorhanden

## On-Machine Inspection

Removing an in-production part from the shop floor to a temperature-controlled inspection area for verification is a time-consuming and expensive process. Inspecting parts directly on the machines producing them increases productivity and quality.

The FARO Gage allows for the inspection of parts on the machine tools producing them. This allows the machine tool operator to quickly and easily inspect parts directly on the shop floor, resulting in tighter tolerances with fewer errors.





## Quote from Table -> FR

"The FARO Gage is a very simple system which enables operators to easily run an inspection program which was previously set-up by the measurement expert. It also enables to set up machines."

Francaise de Mecanique

## Tool Setup

Positioning a part correctly on the machine tool producing them ensures the quality of a CNC-machined part. These types of setups can be extremely difficult to perform with conventional measurement methods as the part's alignment cannot be made in a separate inspection room.

The positioning of any machine, fixture, or part can make all the difference in the quality of the finished product. The FARO Gage can position and measure small parts with high precision, directly on the shop floor.



A close-up, over-the-shoulder view of a person sitting at a desk, looking at a laptop. The laptop screen displays a 3D CAD model of a complex mechanical part, possibly a turbine or engine component, with various colored highlights (green, blue, red) indicating different features or measurement points. The person's arm is visible in the foreground, and a black mouse is on the desk next to the laptop. The background is slightly blurred, showing a wooden desk and a wall.

## One-Off Inspection

Prototype parts are typically produced in small quantities. Individual parts need to be measured either geometrically or compared to nominal data to ensure they are produced correctly and accurately.

Whether it's a one-off, reverse engineered replacement part or the prototype for a larger batch to be produced, the time-savings gained by avoiding the lengthy programming procedures of traditional inspection tools provides a huge advantage. The FARO Gage easily performs these functions on the shop floor.



"FARO customer service and support makes a strong statement about the quality of the company. Obviously no one wants their equipment to falter; in the real world life happens. It is comforting to know when it does, you are not alone."

Elgin Air Force Base

Quote from Table -> BNL, IT, PL  
quote ist noch nicht vorhanden

## Value Added Services

Your purchase is just the beginning of your relationship with FARO. We provide you with support to help you get the most out of your system.

FARO operates service and calibration centres in Brazil, China, Germany, India, Japan, and the United States. All facilities are ISO 9001:2001 certified and ISO-17025 laboratory registered to service FARO's products. Each centre provides warranty and post-warranty services, and is equipped with loaner units for premium warranty subscribers. Our goal is to service, inspect, recertify and return your equipment within a timely manner.

From product setup, basic measurements, working with alignments and nominals to advanced procedures and programming, choose from more than 100 basic to advanced level classes at 10 FARO training centers. For those with more specialised needs, we offer application specific training in the convenience of your own facility!



FARO's online Support Center offers hundreds of solutions to a wide variety of technical issues, 24/7. Faro.com also provides access to videos, user stories, technical specification sheets, white papers and more than 100 application instruction sheets.

For direct assistance, FARO's experienced customer service representatives offer complimentary telephone support for equipment or application-related questions.

For custom solutions, our technically-trained staff of Applications Engineers can visit your facility and provide you with resolutions to your specific measurement challenges.

