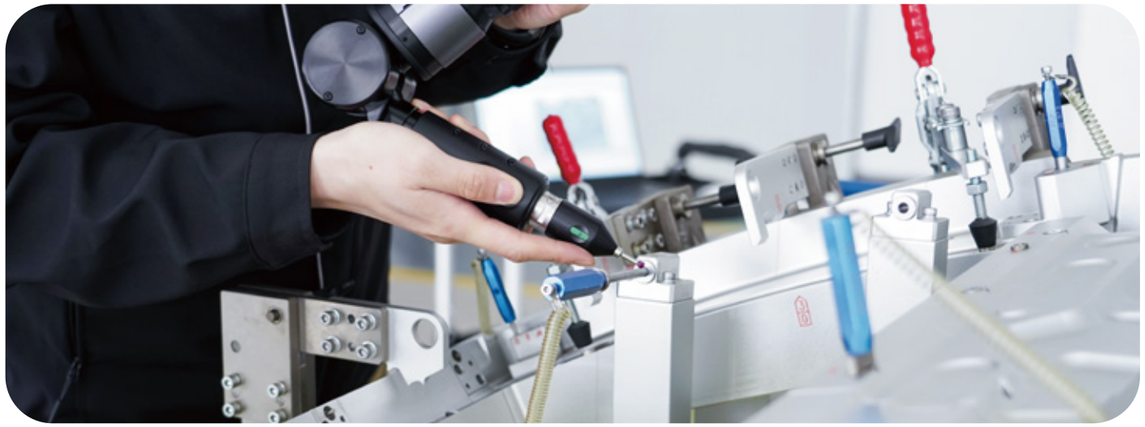
AccuArm Accuracy - Contact Measurement

Type	Working Range	6-Axis SPAT	6-Axis EUNI	6-Axis PFORM	6-Axis PSIZE	6-Axis LDIA	7-Axis SPAT	7-Axis EUNI	7-Axis PFORM	7-Axis PSIZE	7-Axis LDIA
S	1.5m	0.012	0.021	0.012	0.007	0.024	0.015	0.023	0.018	0.008	0.038
	2m	0.016	0.022	0.015	0.008	0.029	0.018	0.023	0.019	0.010	0.041
	2.5m	0.018	0.024	0.018	0.009	0.031	0.020	0.026	0.022	0.011	0.045
	3m	0.026	0.037	0.025	0.012	0.044	0.032	0.046	0.032	0.016	0.070
	3.5m	0.036	0.051	0.033	0.016	0.059	0.043	0.056	0.038	0.020	0.090
	4m	0.045	0.062	0.037	0.020	0.075	0.054	0.072	0.043	0.026	0.112
	4.5m	0.055	0.078	0.050	0.028	0.101	0.065	0.093	0.065	0.036	0.132
E	1.5m	0.018	0.025	0.016	0.009	0.028	0.020	0.024	0.020	0.011	0.043
	2m	0.020	0.026	0.018	0.010	0.032	0.022	0.030	0.022	0.012	0.047
	2.5m	0.023	0.028	0.021	0.012	0.036	0.026	0.031	0.024	0.013	0.050
	3m	0.034	0.040	0.030	0.015	0.050	0.042	0.052	0.034	0.020	0.072
	3.5m	0.043	0.054	0.037	0.019	0.064	0.055	0.065	0.042	0.024	0.092
	4m	0.052	0.064	0.043	0.023	0.081	0.065	0.062	0.048	0.029	0.118
	4.5m	0.061	0.087	0.078	0.038	0.108	0.073	0.097	0.082	0.043	0.137
C	1.5m	0.028	0.036	0.029	0.015	0.038	0.030	0.040	0.035	0.020	0.048
	2m	0.030	0.040	0.035	0.018	0.041	0.035	0.045	0.040	0.025	0.052
	2.5m	0.035	0.044	0.038	0.020	0.050	0.040	0.049	0.045	0.030	0.058
	3m	0.055	0.064	0.047	0.028	0.078	0.060	0.069	0.049	0.035	0.089
	3.5m	0.075	0.079	0.057	0.035	0.096	0.080	0.084	0.064	0.040	0.113
	4m	0.090	0.098	0.067	0.044	0.114	0.095	0.103	0.074	0.050	0.138
	4.5m	0.112	0.118	0.086	0.048	0.128	0.115	0.123	0.095	0.055	0.158

1. Supports the Arm+ solution for seamless integration with multiple hardware systems.
2. All values represent MPE (Maximum Permissible Error).
3. AccuArm Contact Measurement : Compliant with ISO 10360-12; specified as E_{Uni} - Point-to-point distance error when contrasting measured data against nominal data. Values are +/-.
4. Specifications are subject to change. Please refer to the official website for the latest updates.



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AccuArm
05182026-V1.0

SCANOLOGY

Portable CMM

AccuArm

Reach Deeper
Measure Smarter

To Be a World-leading Brand of 3D Digitization

SCANOLOGY is a leading metrology brand delivering high-precision 3D measurement solutions for modern manufacturing and engineering. Trusted by 10,000+ enterprises across 70+ countries, our solutions cover product development, automated inspection, quality control and more— serving aerospace, automotive, heavy manufacturing, and beyond. With a worldwide presence across Europe, the Americas, Asia and more, we help companies measure better, and build better.

400+	70+	3	3	6
Intellectual Property Rights	Countries & Regions Served	Global Subsidiaries	International Calibration Centers	Worldwide Offices

ISO 17025 ACCREDITED LABORATORY

CNAS 中国认可 国际互认 校准 CLIBRATION CNASL16277

Portable & Flexible

ISO 10360-12 Certified Accuracy

Versatile

Robustness

AccuArm

SCANOLOGY's AccuArm is a portable Coordinate Measuring Machine (PCMM) engineered for precise measurement and inspections in demanding conditions. Thanks to its aerospace-grade carbon-fiber structure, high-precision encoders and intuitive operation, it deliver consistent results with the flexibility to measure anywhere — in the metrology lab or on the production floor.

Set up in minutes. Measure where fixed CMMs can't. AccuArm handles complex measurements with ease—making it the go-to solution for fixture adjustment and assembly inspection alike. A fully integrated workflow—measurement, analysis, and reporting—keeps your team connected and your decisions data-driven.

Its capabilities can be further expanded through seamless integration with SCANOLOGY's versatile 3D scanners and optical measurement systems, enabling fast, flexible, and cost-effective measurement solutions.

AccuArm

Applications

01

Checking Fixture Adjustment

Monitor positioning deviations in real time for faster fixture adjustment, improved accuracy, and higher efficiency.

02

Heavy Machinery Inspection

Accurate on-site measurement of large, complex parts to identify deviation, reduce rework and improve quality.

03

Battery Pack Measurement

High-precision 3D inspection confirms every dimension of battery pack, ensuring safe, reliable assembly before it leaves the floor.

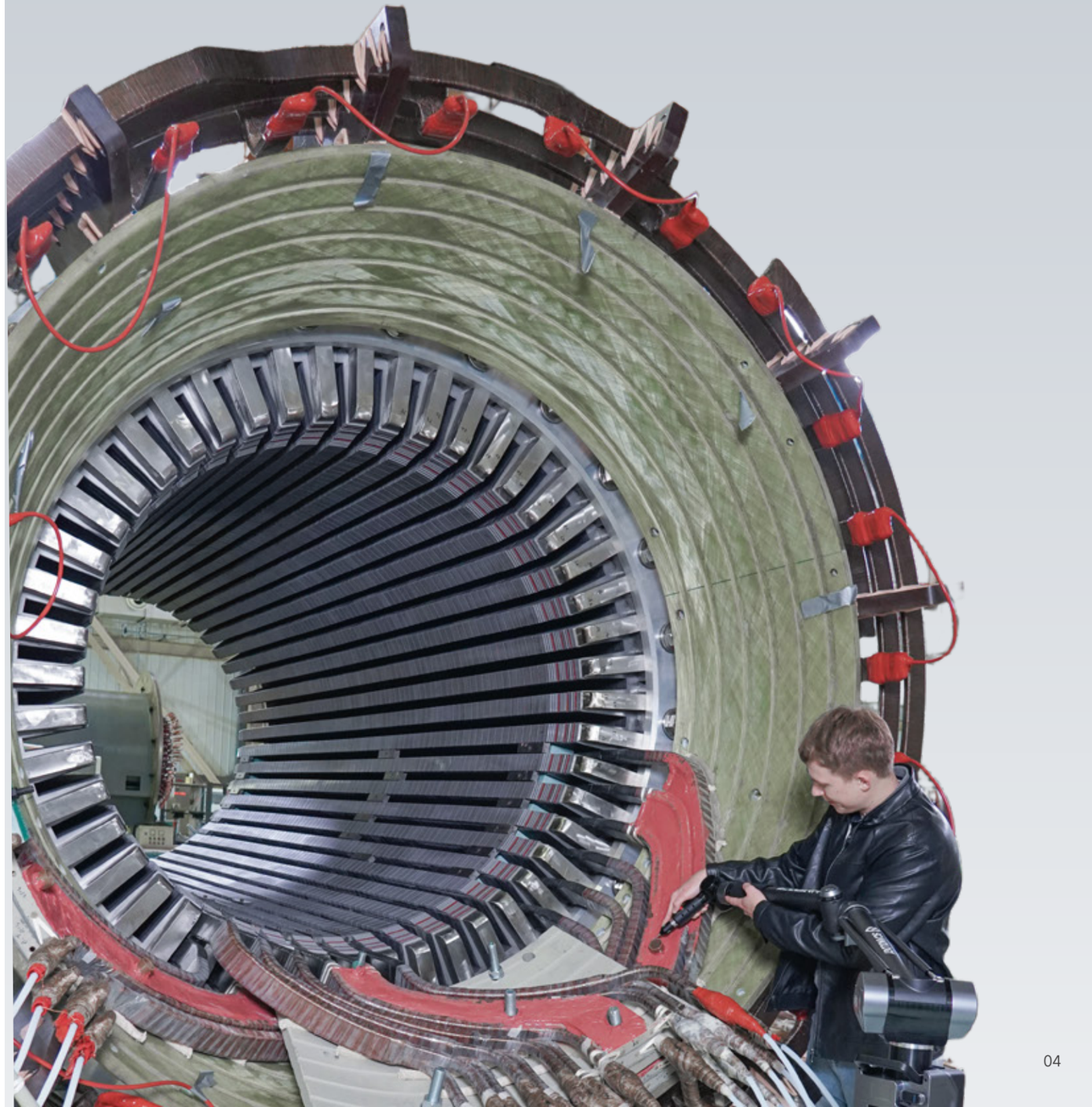
Accuracy You Can Trust

ISO 10360-12 Certified

The AccuArm is certified for accuracy to the ISO 10360-12 standard. It delivers high accuracy with consistent performance in almost any environments, enabling confident decisions in inspection and assembly.

Built for High-demanding Measurements

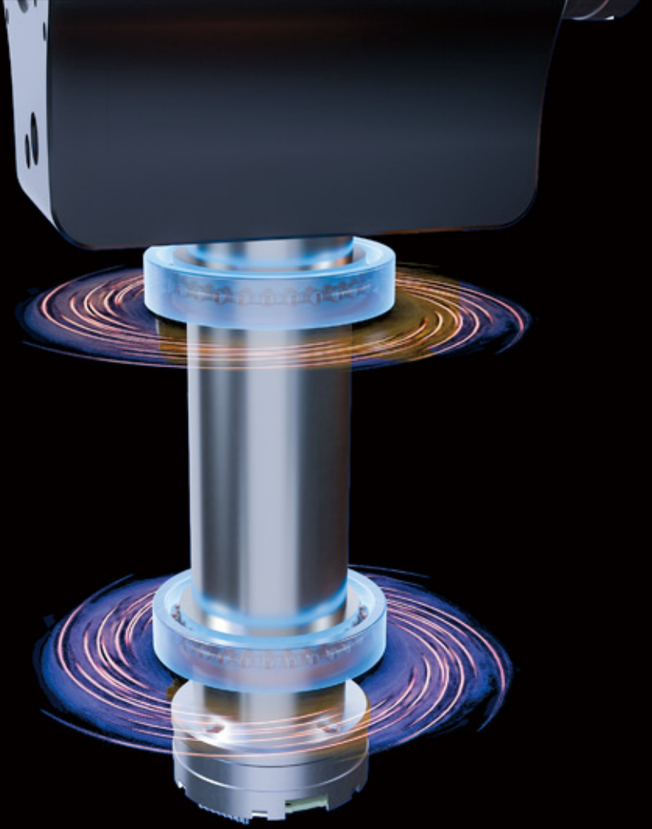
Handle everything from complex geometries to precision components with ease. Count on stable, high-accuracy measurements that fulfill the stringent requirements of industrial manufacturing.



Precision Hardware

High-precision encoder

Aerospace-grade encoder ensures precise data capture at the source.



High-precision bearings

Low-friction mechanical design minimizes wear and drift, maintaining stability.

Smart Algorithms

Automated thermal compensation

Real-time thermal compensation for both measuring arm and part in on-site measurement.

Multi-frame optimization

Reduces random error and boosts point-measurement confidence.

Automated force compensation

Automatically adjusts for probe pressure and orientation changes.

Move and Measure with Ease

Lightweight and portable, designed for single-person operation. Carry, set up, and work seamlessly from the lab to on-site.

Carry Anywhere Work Comfortably

Lightweight aerospace-grade carbon fiber and a spring counter-balance design make the arm easy to move and virtually weightless for reduced fatigue.

Swap Probes Instantly

Change probes quickly without recalibration—just plug and play.

Power & Data Uninterrupted

Hot-swappable, fast-charging batteries keep you working nonstop, while the USB Wi-Fi module ensures fast, stable, and secure data transfer.

Measure Anything, Anywhere

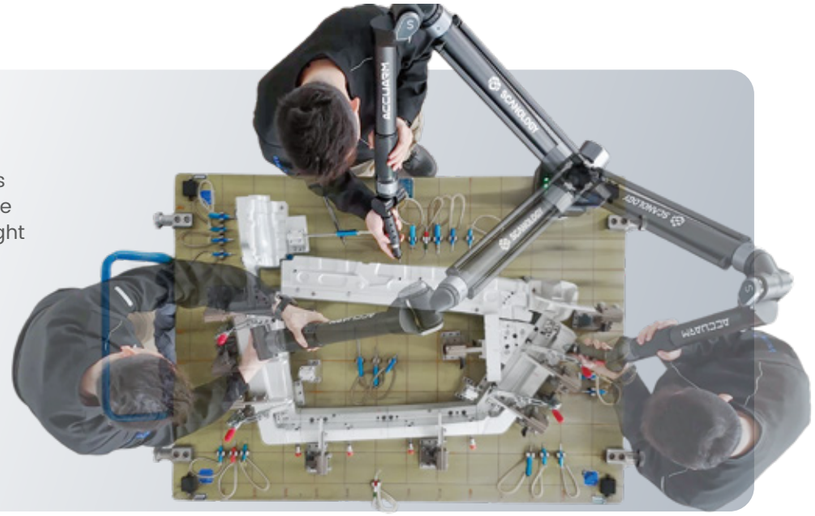
Built on the Arm+ philosophy — the Expandable Measurement Solution — AccuArm goes beyond high-precision measurement. It's a flexible platform that integrates seamlessly with multiple hardware systems and existing inspection workflows, adapting effortlessly to different parts, applications, and working environments.

Handles Virtually Any Measurement Task

Built to inspect a wide variety of parts across industries and adapt easily to real-world production environments.

360° rotation

Full joint rotation eliminates blind spots and reduces the need for repositioning in tight spaces.



S / E / C grades with 1.5–4.5 m reach

Three accuracy performance levels—S (Superior), E (Enhanced), C (Classic) —paired with five length options for applications from small parts to large assemblies.

Smart inspection tools

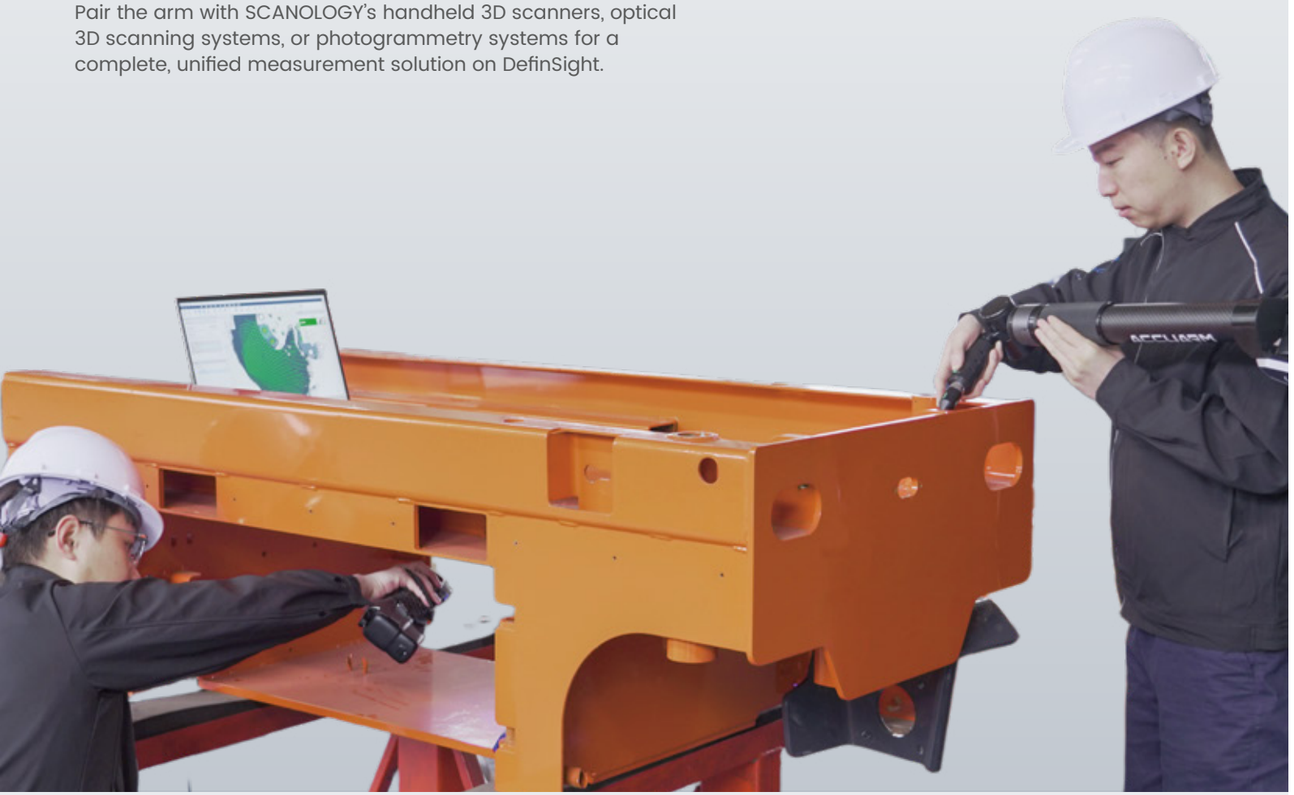
GD&T analysis and fixture inspection supported to simplify workflows.

Flexible mounting

Compatible with tripods, magnetic bases and vacuum suction cups for secure setup on any surface.

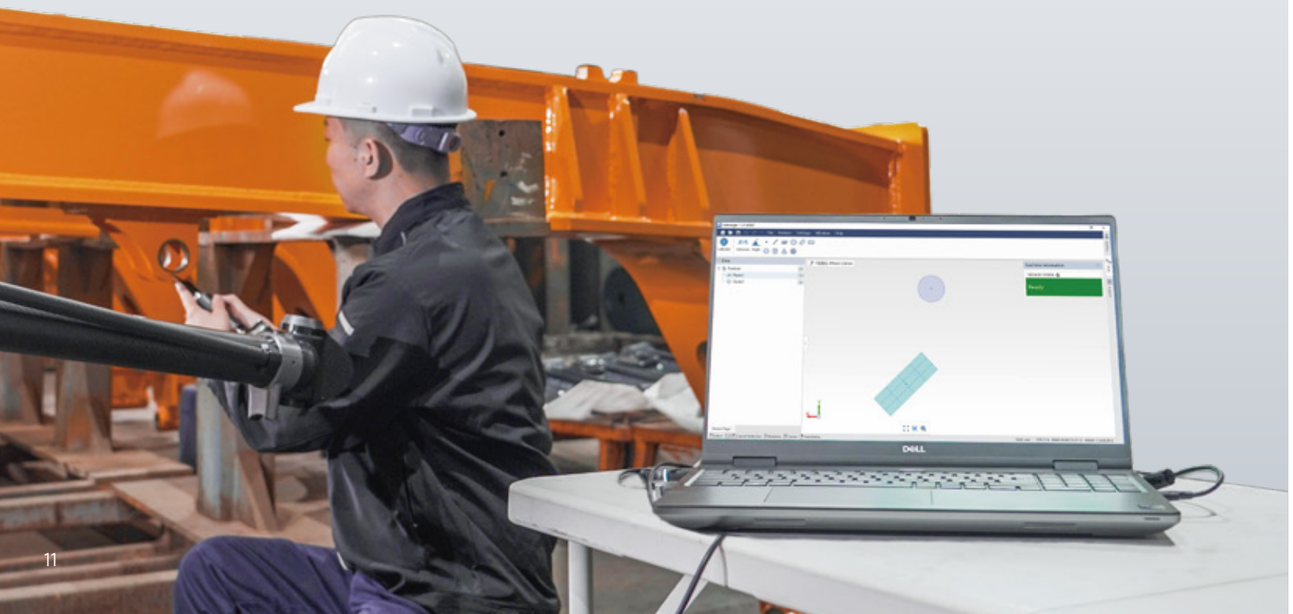
Arm+ | The Expandable Measurement Solution

Pair the arm with SCANOLOGY's handheld 3D scanners, optical 3D scanning systems, or photogrammetry systems for a complete, unified measurement solution on DefinSight.



Seamlessly Integrate with Any System

Works with our in-house developed DefinSight 3D Software and mainstream inspection systems such as PolyWorks，Metrolog X4, Verisurf — no extra setup needed.



Trusted Across Demanding Sectors

Trusted across demanding industries to deliver precise measurement, reliable quality control, and efficient manufacturing.

Automotive

Inspect car bodies, measure components, adjust fixtures with high precision to improve production yield.

Aerospace

Measure critical structures and blades precisely to ensure safety and reliability.

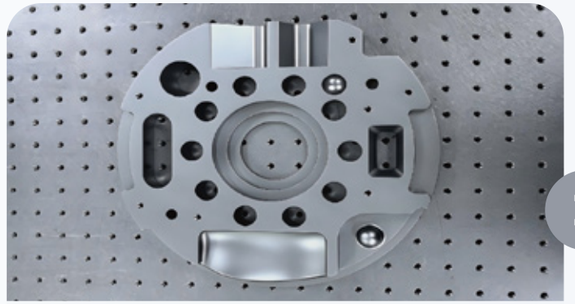
New Energy

Accurate inspection of battery enclosure profiles, sealing surfaces, and motor housings helps ensure battery pack safety and precise e-drive assembly.

Heavy Machinery

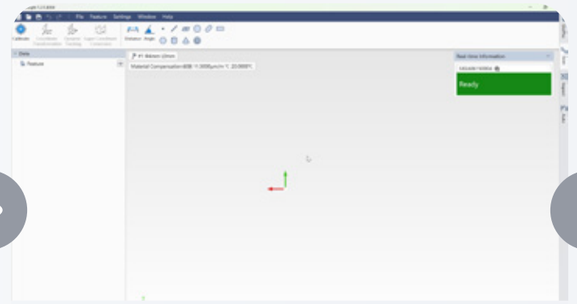
Align large structures, inspect weld quality, and assess wear conditions to extend equipment life and reduce maintenance costs.

From First Setup to Final Report



Position the Part

Secure the part on the workbench.

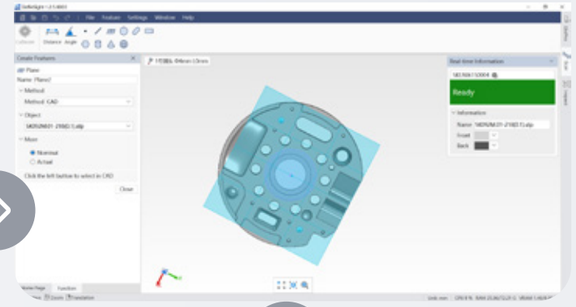


Launch the Software

Open DefinSight and confirm the device connection.

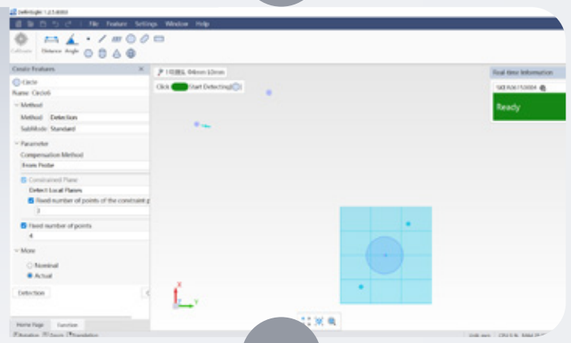
Import the CAD

Load the part's CAD into the software.



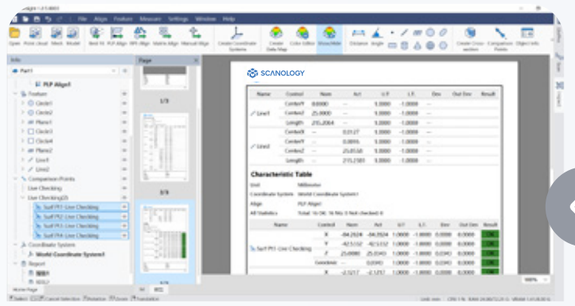
Select Features

Create datum features on CAD.



Probe the Features

Probe the corresponding datum features in the software.

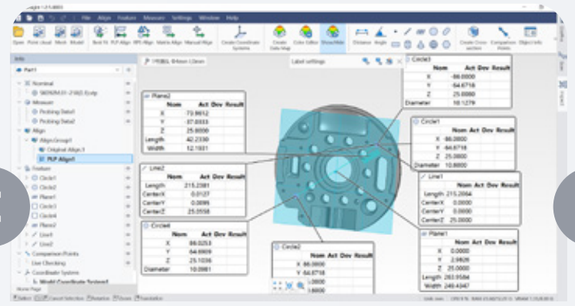


Generate Reports

Create customized reports with graphics, data, tables, and GD&T results in PDF, Excel, txt and more.

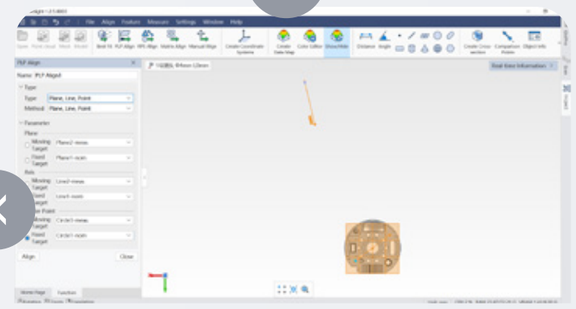
Perform Adjustment

Perform real-time adjustment against the CAD.



Measure & Inspect Features

Inspect planes, holes, cylinders, and other features, with nominal values and results displayed automatically.



Align the Coordinate System

Select the features and align the coordinate system to the datums.