nub3D
SIDIO AIRUS




# SIDIO AIRUS

The ultimate solution for automated inspection
Warranty in Metrology, Revolution in Production

Power and productivity
for a better world™

# Be one-click far from 100% quality control automation

A fruitfull collaboration with ABB has brought to the market the best-of-class solutions:

**"Plug & Play" system**
Easy automated inspection to simplify operation for production employees

**"Shop floor" inspection**
To provide a rapid feedback about production process variation, for improved process control and scrap reduction

**Cost Reduction**
Reduction of the faulty parts replacement while value is added by the capability of ensuring 100% quality

**Competitiveness increase**
Time saving on inspection process execution and big savings based on the reduction of revision campaigns

**Compliance with the International Standards**
VDI/VDE 2634 certification Part 2&3

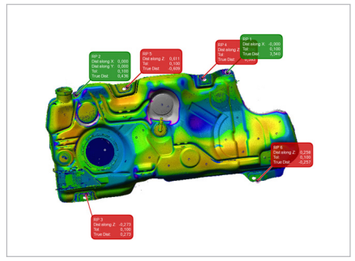
CE VDI

# Ready to jump into the world of in-line inspection?

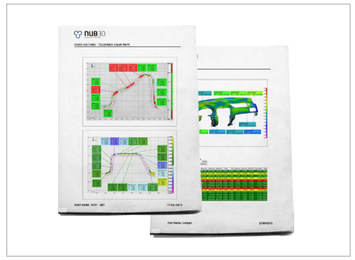
Tell us what you need, we design the solution for you!

- Project developed under customer requirements
- Possibility to integrate in production line for 100% automated inspection

**TOLERANCE COLOR MAPS**

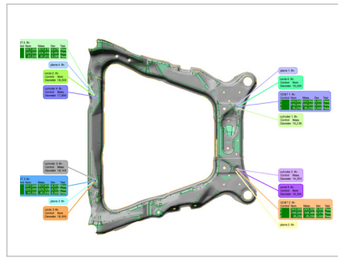


**CUSTOMIZABLE REPORTS**

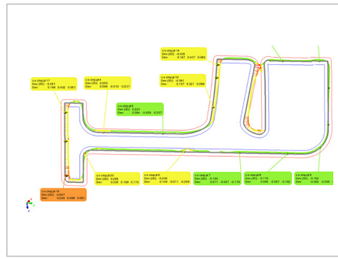





**REFERENCE POINTS CONTROL**



**2D SECTIONS**



# Key benefits

**Single camera Technology**
One camera system reduces the number of views overlapping and potential Hardware failures

**White/Blue Light technology**
Great and adjustable light power to get the best digitizing results regardless light conditions

**Shiny/Black parts digitization**
EDR technology implemented: system parameters adjustment to easily digitize shiny and black parts without the need of spray

**Extremely fast**
The XR technology and seamless integration with the ABB robot make the scanning process be done within the fastest time while the measured data is processed in real time using multiprocessor technology

**Self-Compensation**
Vibrations and ambient conditions variations do not affect the measurement anymore, thanks to integrated photogrammetric technology

**High Flexibility**
Combined with flexible holding fixtures, the simulator based on RobotStudio® allows easy configuration of new parts using only CAD data and inspection plan

**Fast Learning Curve**
Quick customization and very easy to use solution. No specific skills are required. 2 training days are enough to handle and control the full operation of the cell

**Touch Screen Control**
Designed to allow the operator to have hand in the process thanks to the friendly user interface and intuitive process.

**Remote Control Assistance**
Unit fully integrated with ABB Patented Remote Service for a retrieval of the system performance data. Root cause is immediately diagnosed and identified to determine how performance issues can be resolved.

The SIDIO AIRUS turnkey solution is the ultimate answer for industrials looking for a fast ROI while reaching 100% quality control with a productivity ramp up, and operative costs reduction.

# Technical specifications

| | |
|---|---|
| Unit Size and weight | **Robotized unit:** 1600x1300 mm – 800KG<br>**With rotary Table:** 3000x1300mm – 1.000KG<br>**With closure:** 4500x2900mm – 3.000 KG |
| Max Part Specifications | Cylinder of 2000mm diameter and 2000mm height |
| Field of View | From 340x215x200mm$^3$ to 550x390x200mm$^3$ |
| Cameras | 1,4Mpxls/5Mpxls 3D sensor camera<br>Photogrammetry camera: 7µm + 7µm/m |
| Accuracy | From 18 µm |
| Repeatability | 10 µm |
| Speed | Up to 0.25 sec/shot |
| Operating conditions | **Temperature:** 5-45º<br>**Light:** Designed to work regardless light conditions, in ambient industrial conditions<br>**Electrical Compatibility:** 200V-600V 50Hz/60Hz III Phase |
| Rotary table (up to 600 KG parts) | Optional with Flexible holding fixtures for supporting multiple parts types |
| Floor mounting or fixing | Anchors for floor fixing |
| Closure | Includes emergency stop button, safety sensors and fencing.<br>Entry: 1600mm width with photoelectric sensors<br>Maintenance door |

CONTACT YOUR LOCAL DISTRIBUTOR

In 1999, NUB3D was incorporated in Barcelona with the aim of providing easy to use, fast and affordable 3D scanning solutions. The continuous investment in R&D has always taken NUB3D to develop the most efficient systems for 3D measurement, but it is its high sense of creativity that positions the company at the leading edge of the technology. By virtue of NUB3D high commitment to customers, SIDIO systems are daily applied in the major industrial sectors like aerospace automotive and other global manufacturing companies.

NUB3D
Measurement Innovation

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