CARBON & RODDING SHOP

ASIS^{3D}

3D Anode Stub Inspection System

« State-of-the-art 3D inspection system to analyze your stubs on the production line. »

How it works

The ASIS^{3D} is a fully automated Anode Stub Inspection System based on the latest 3D technology already in use in other sectors of the industry. It can be adapted to all anode stub sizes and shapes. The system is developed, integrated and manufactured based on state-of-the-art 3D hardware & software designed and supported by world-class suppliers.

The ASIS^{3D} uses a combination of 3D sensors. The data sets from each sensor are linked to a common triple-axis coordinate system to build the full 3D model of the stubs. An industrially proven 3D metrology software is then used to automatically perform the measurements.

Key features

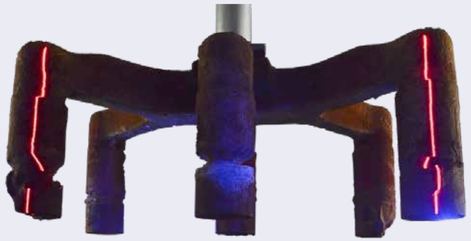
The ASIS^{3D} is fully automated, with a design based on robust and proven technologies.

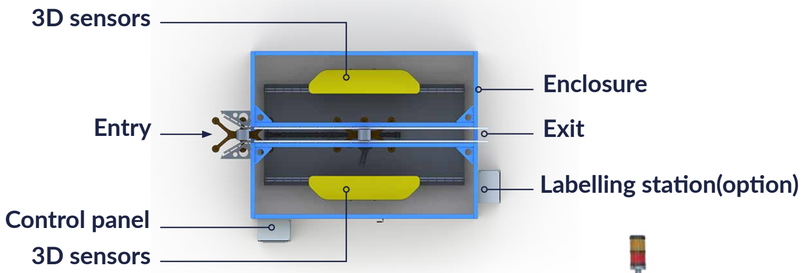
- Can be adapted to all stub sizes and configurations (including hexapods).
- Acquisition of three-dimensional stub model.
- Measurements are performed to route the anode rods automatically toward the repair loop or to be reused.
- Complete inspection process requires less than 30 seconds.
- Perfect rodding can be ensured by numerically simulating the stub inputs in the anode model.
- Repair stations are optimized and fed with precise and relevant information.
- Custom measurements can be added if required.
- When used with STAS anode rod tracking technology (ART), the condition of the stubs can be related to the performance of the electrolysis cells.
- Anode stub maintenance can be greatly optimized and monitored.

Scanning of three-dimensional stub types

Available with tripods and hexapods configurations.

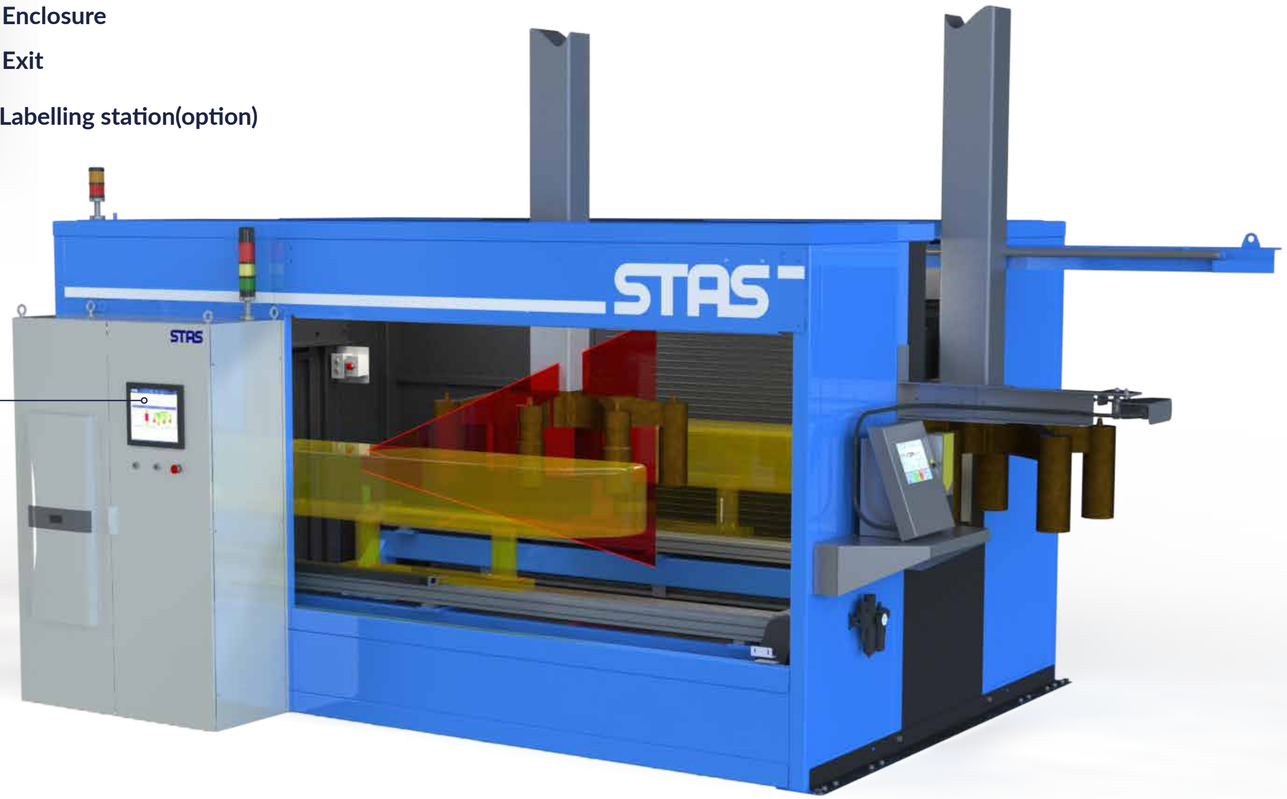
Inspection in progress





TOP VIEW

ANALYSIS RESULT



Typical specifications

Main unit Overall dimensions			Approximative weight	
Length (mm)	Width (mm)	Height (mm)	Enclosure (kg)	ASIS (kg)
2000 - 4000	1500 - 3300	2000 - 3000	2300	1200

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