ASIS³ᴰ   3D ANODE STUB INSPECTION SYSTEM

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

❯❯ How it works

The ASIS³ᴰ 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.
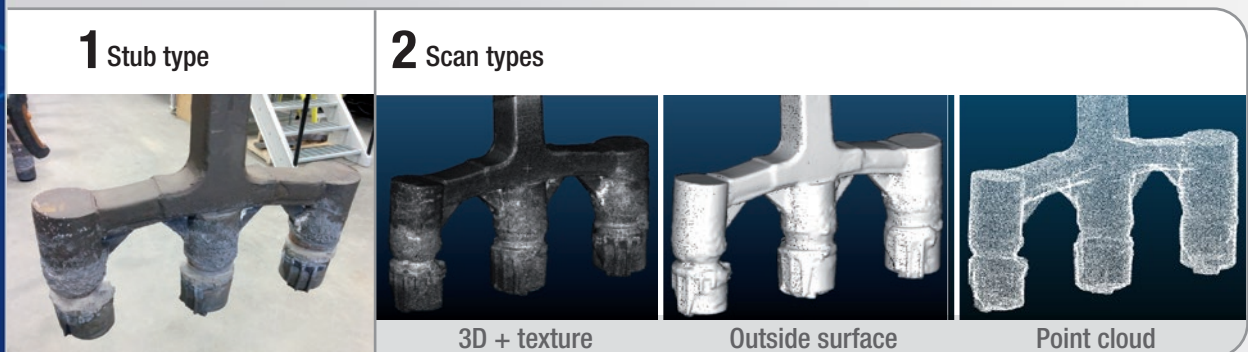
❯❯ Key features

The ASIS³ᴰ is fully automated, with a design based on robust and proven technologies.

> ❯ Can be adapted to all stub sizes and configurations (including hexapods).
> ❯ Measurements are performed to route the anode rods automatically toward the repair loop or to be reused.
> ❯ The 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.
> ❯ An optional labeling station at the exit of the ASIS³ᴰ can print a custom report to be applied on the anode rod.

❯❯ Scanning of three-dimensional stub types

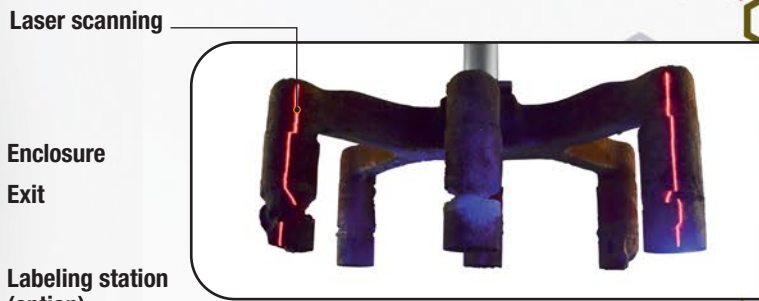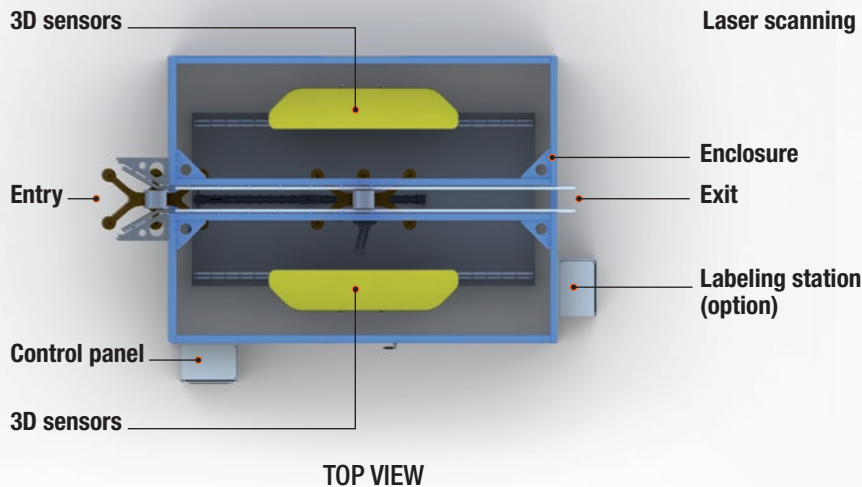Available with tripods and hexapods configurations.

1 Stub type	**2** Scan types		
	3D + texture	Outside surface	Point cloud

3D sensors

Laser scanning

Entry

Enclosure

Exit

Control panel

Labeling station (option)

3D sensors

TOP VIEW

SCAN IN PROGRESS

OVERVIEW

STAS

Ready to scan

SUMMARY | INSPECTION DETAILS | STATISTICS | LOG

ROD ID ◄ 2312A ►

PARAMETER	STATUS	CURRENT HEXAPOD
STUB LENGTH	PASS	
EROSION (HIGH)	PASS	
EROSION (LOW)	FAIL	
TIP EROSION	FAIL	
CAST IRON	FAIL	
ANODE STEM ANGLE	PASS	
FITNESS FOR RODDING	PASS	

ASIS³⁰ / ANODE STUB INSPECTION SYSTEM

OPERATOR LOGIN

SUMMARY

ANALYSIS RESULT

❯ Typical specifications

Inspection cycle	Main unit Overall dimensions				
	Length (mm)	Width (mm)	Height (mm)		
30 sec	2000 - 4000	1500 - 3300	2000 - 3000		

STAS