3D LASER SCANNING, AS-BUILT MODELS AND THE ENGINEERING THAT FOLLOWS

We scan the hull or structure, build the as-built 3D model, and run the structural and stability work on that same model. All in one small firm in Newport, RI.

UEI	CAGE	BUSINESS TYPE	NAICS
NWJRCE69AWH9	26AB1 · SAM active	US small business Since 2018	541330 · 541370 · 541380 · 541690 · 541715

What we do

- 3D laser scanning. Hulls, decks, appendages and structure, scanned with our own FARO scanner.
- As-built 3D models. Surface models and drawings in Rhino and SolidWorks, ready for engineering, repair or new parts.
- Structural analysis on the scan. FEA on the as-built geometry in Femap/Nastran and SolidWorks Simulation.
- Stability and USCG compliance. Inclining tests, weight surveys, hydrostatics and stability, with reports for Coast Guard review.
- Deliverables. Registered point cloud (E57 and native FARO), FARO SCENE registration report, measurement report, as-built model (Rhino, SolidWorks or STEP; Rhino opens directly in Orca3D), DWG drawings, and an engineering report when analysis is ordered.

Why Wyspa

- Scan, model and analysis in one firm. No hand-off between a scan vendor and an engineering firm.
- Naval architects run the scan, so the model comes back ready for engineering.
- We come to the vessel. On a recent repair-yard job, we handled the access forms and insurance certificate.

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projects where scanning fed the engineering

Track record (commercial)

- 85 ft aluminum patrol boat (2026). Scanned on site in a working repair yard. As-built 3D model of the outer surfaces in progress.
- USCG Subchapter T conversions. A historic 12 Metre (USCG approved) and a 12-passenger Pearson 35 (structure approved, rig review pending). Scans on both; inclining test, stability and rig-loads reports on the Pearson.
- Other scans: a 114 ft motor yacht, an aircraft fuselage and wings, keels, rudders and rigs.

How to order

- Files by your date. We plan the job around the delivery date in your RFQ.
- Fixed price. We quote a fixed price for small purchase orders. Each quote names the scanner and the accuracy of the files we deliver. Send RFQs to casey@wyspa.tech.

CASEY BROWN, OWNER & NAVAL ARCHITECT
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