

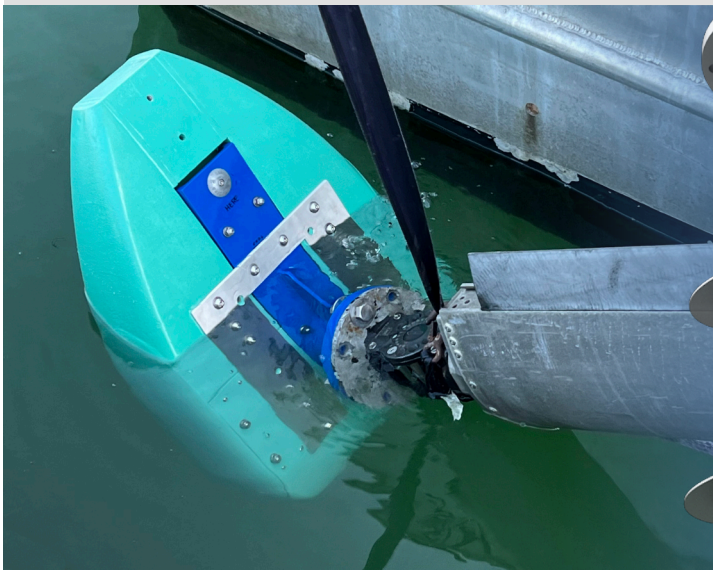
CASE STUDY – R2Sonic Hydrodynamic Sensor Fairing

PRIMARY TASKS - Design & Supply

- Developing the housing fairing & sensor integration.
- Complete a Computational Fluid Dynamics (CFD) optimisation.
- Design tooling geometry.
- Manufacture a working prototype of the fairing for at sea.

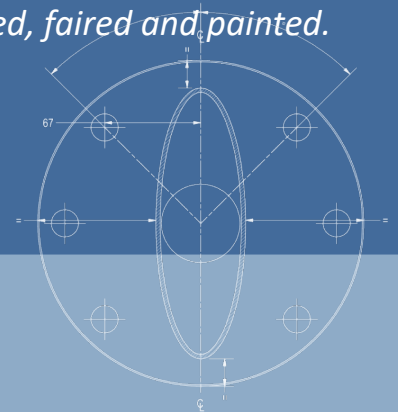


R2Sonic are highly experienced subsea sensor designers based in Austin, Texas. R2Sonic have developed a series of broadband / wideband multibeam echosounders. They contacted Argo to assist in the development of fairings to house their system, along with a structurally optimised mounting pole.



What started as a design study for R2Sonic quickly became an optimisation, aesthetics and prototyping project. Initially Argo developed 3D models of concepts and predicted drag and lift manually. We then conducted several rounds of CFD to optimise the shape to trade fairing size for drag reduction. R2 then asked Argo to manufacture prototypes. These were CNC machined from recyclable PET core, sheathed, faired and painted.

Having our own low volume manufacturing facility strengthens Argo's offering considerably. We are able to take our designs & produce tangible, working solutions that allow our customers to get to market faster.



Following the success of the prototype Argo look forward to working with R2Sonic to provide a limited production run of hydrodynamic sensor fairings.

CLIENT:

R2SONIC
OUR VISION IS SOUND™