

ADCP Buoy Frames

In the early days of acoustic doppler current profilers (ADCPs) most units on the market were designed with four transducer beams. To most effectively accommodate these four-beam ADCPs, buoys were produced with four tie-rods that pass through the buoy and end frames with four legs that attach to the tie-rods. This design allowed for the beams of the ADCP to pass between the frame legs, unobscured.

Advances in ADCP technology have since led to ADCPs with as few as three beams and as many as nine transducer beams. In some cases, a center (vertical) beam is included in the configuration. These technological advances in ADCP design have led to changes in the design of the framework for ADCP buoys. To meet these challenges, DeepWater Buoyancy has produced a large variety of frame designs that accommodate both buoy and instrument variations.

All frames are manufactured with 316L stainless steel. The frames are then electropolished and fitted with replaceable zinc anodes for superior corrosion resistance. Frames with arbors on them are fitted with isolation bushings and allow connection to the mooring line with standard shackles.

Our extensive in-house design, machining, metal-working, and welding capabilities allow us to make an endless variety of these frames to support and protect not only ADCPs, but also a wide range of other instrumentation. DeepWater Buoyancy's engineering staff will work with you to design the exact frame that best meets the needs of your equipment, pass through loads, and time at depth.



PART

DESCRIPTION

ABF-01	ADCP Buoy Arbor Frame for Four-Beam ADCP, 3/4" 316L SS, Arbor for 1/2" Shackle
ABF-02	ADCP Buoy Arbor Frame for Three-Beam ADCP, 3/4" 316L SS, Arbor for 1/2" Shackle
ABF-03	ADCP Buoy Ring Frame for Four Tie-Rod ADCP Buoy, 3/4" 316L SS, 10.75" Overall Frame Height
ABF-04	ADCP Buoy Ring Frame for Four Tie-Rod ADCP Buoy, 3/4" 316L SS, 8.50" Overall Frame Height
ABF-05	ADCP Buoy Ring Frame for Three Tie-Rod ADCP Buoy, 3/4" 316L SS, 6.13" Overall Frame Height
ABF-06	ADCP Buoy Arbor Frame for Three-Beam ADCP and Four Tie-Rod ADCP Buoy, 3/4" 316L SS, Arbor for 1/2" Shackle