

Oceanus ROV Accessories

Single Axis Manipulator - v3.0



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D-001_ROV_ACC_SAM_2026-PR1

MarineNav's single-axis manipulator arm (v3.0) features a one-piece body construction and choice of either one standard straight jaw or one curved pincer jaw head attachment. Additional attachment heads are available, contact MarineNav regarding developing jaw head design prototypes for your specific need.

Constructed of marine-grade materials, including an aluminum mount and Acetal housing, the single-axis manipulator (v3.0) is designed to perform in harsh underwater environments to a depth of 300m. Unique jaw head attachments function with the manipulator's open and closing motion. Designed as a front-facing accessory, the single-axis manipulator is visible through the Oceanus ROV front camera field of view and controlled by the ROV systems topside touch-sensitive Flight Control System software or by using button commands on the Oceanus hand-held controller. Swapping jaw head attachments is easy and requires a minimum of time and tools to mount to the manipulator's arm.



Part #: ROV-ACC-ARM

▼ THE SINGLE AXIS MANIPULATOR (v3.0) INCLUDES ONE JAW HEAD ATTACHMENT.

CHOOSE BETWEEN THE STANDARD STRAIGHT JAW HEAD OR THE CURVED PINCER JAW HEAD ATTACHMENT.



1. STANDARD STRAIGHT JAW HEAD ATTACHMENT

A multi-purpose jaw designed to perform retrieval maneuvers. Jaws feature flattened head tips and interior serrated grips particularly useful when making contact against hard flat surfaces. Vice-like jaw closures provide precision when closing on hard-edged objects.



2. CURVED PINCER JAW HEAD ATTACHMENT

Intersecting jaw tips with serrated ridges ensure that target items will be held firm when jaws are closed. Ideal for retrieval missions, this jaw can capture irregular-shaped items or items constructed of pliable materials. Ideal uses include retrieval of rope, ghost gear, tether or smaller objects.

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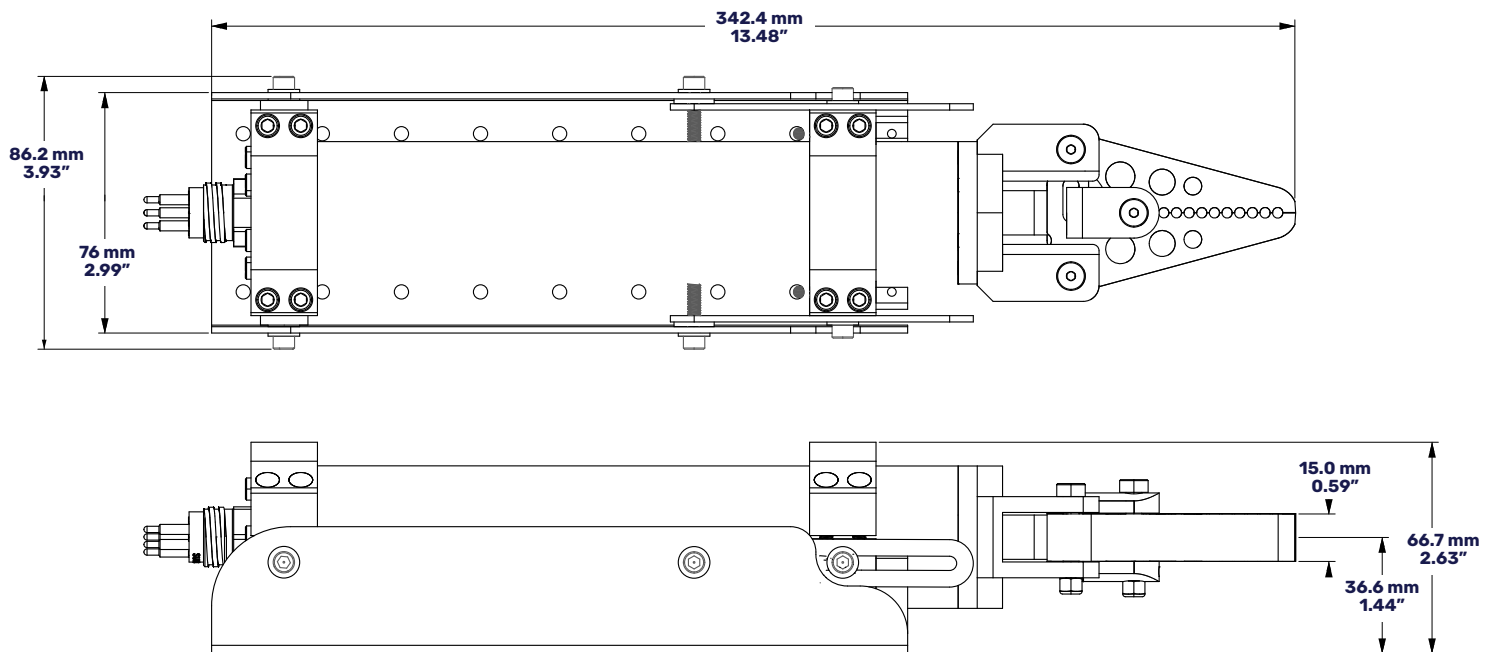
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Dimensions



Optional Jaw Head Attachments



A. SEDIMENT SCOOP

A shovel-shaped jaw head attachment with an interlocking clam shell design that operates on simple open and close commands to dig in and retrieve sediment samples with ease.



B. FISH SCOOP

Primarily used in the aquaculture industry for cleanup and maintenance. The scoop is equipped with a jaw which opens and closes to firmly scoop and grab fish, aquatic plants and other debris.



A. CARABINER JAW HEAD

Used for ghost gear retrieval. The jaw head firmly holds a carabiner in place as you use the ROV to lock the carabiner to your target. Once attached, open jaws to release.



▼ All jaw head attachments come with required fasteners. Bespoke manipulator arm jaw head attachments are designed and manufactured on site. Specifications, options, and availability subject to change with out notice. Errors and omissions excepted. MarineNav reserves the right to limit quantities.

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