



WATSONVILLE FIREFIGHTERS SEAL TEAM 1272

Aptos, CA 95076

1,400 km from International Competition
9th, 10th, and 11th Graders

Established 2014

Regional Winners 2016, 2017, and 2018
International Winners 2017

ARGO V SPECIFICATIONS

Name: Argo V

Weight: 9.97 kg in air

Tether Length: 15 meters

ROV Cost: \$2,666.49

Research & Development Cost:
\$1,666

Dimensions: 31.5 cm in height;
38 cm in width; 39 cm in length.

Thrust: 0.6 m/s

Acceleration: 0.07 m/s²

Work Hours per Person: 80

Special Features:

Acoustic speaker, software controlled two front ends, 3D-printed rotating claw.

Safety Features:

Covers around propellers, rounded edges, strain relief on both ends of the tether, neat wiring.

Electrical Specifications:

*Idle Power*¹: 1.5A; 12V; 18W

*Full Power*²: 18A; 12V; 216W



Top: Default front of the Argo V. Second: A 1200 gph motor with a shroud for safety. Third: Argo V's rotating claw. Bottom: The claw side of the Argo V.

TEAM



Top (Left to Right): Jacob Sandler (Head of Software), Johan Govaars (Head of OBS Development), Pratham Rathi (Head of Software), Chris Whaley (Head of Propulsion), Caleb Broxton (CFO), Cameron Barrett (Head of Control Box). Bottom (Left to Right): Amelia Lovell (Head of Frame Design), Jordan Chin (Head of Safety), Katherine Walton (Head of 3D Design), Sun Woo Da Costa (Head of Video, Pilot), Jamie Walton (CEO), Keegan Martin (Head of Onboard Wiring).

Mentors (not pictured): Victor Da Costa, Mary Seamount

¹Power means claw is energized but open and not rotating, thrusters are idle, speaker is off.

²Full Power means jaw is clenched and rotating, thrusters are at full power in water, speaker is playing trigger sound.