

Arneson ASD-16 Surface Drives

Sale Price: \$250,000 (pair)

Description:

- Purchased in 2004
- Low hours less than 100 hours on each drive
- Serial #s:
 - o Port: 1S0293
 - o Starboard: 1S0294
- ASD16 Drive Unit Aluminum
- Reduction/Overdrive 1:1
- Unit Weight 1,985 lbs (each)
- OAL 86"
- Steering Angle 36 Degrees
- Trim Angle 11 Degrees
- Maximum Input Torque 16,500 lbs
- Drives are crated and ready to ship; price is FOB Honolulu, Hawaii.
- The **Arneson Surface Drives** are among the most efficient marine propulsion systems in the world. Their surface-piercing propeller design reduces underwater drag by 50% compared to conventional submerged propeller drive systems. The only surfaces to contact the water are propeller blades and a protective skeg. This results in higher overall speed, quicker acceleration, and a better payload to power ratio... **AND...** 50% less drag significantly improves fuel economy while lowering operating costs.
- Advantages:
 - o 15% to 30% speed increase over conventional systems.
 - o 15% to 30% increase in fuel efficiency.
 - o More efficient than I/O's
 - o Corrosion resistant
 - o Size adaptability, from 100 hp to over 10,000 hp applications.
 - o Low maintenance requirements.
 - o Ability to adjust propeller submergence while underway.
 - o Ability to adjust submergence to match horsepower output permits conversion of more thrust as appropriately needed.
 - o Propellers ventilate to the surface rather than cavitate under the hull reducing noise and destructive hull and prop erosion.
 - o Flexibility in engine installation location.
 - o Less Vibration than Inboard or I/O applications
 - o Shallow water operation (elimination of underwater appendages).
 - o Accessible propeller servicing.
 - o Steerage by the positive thrust of the propeller and not by the propeller thrust to the rudder. This is equivalent to sports car rack-and-pinion steering performance.

- For all its sophisticated performance, it is a less mechanically complex and fragile design than other propulsion systems.
- Most models are available in Magnesium Bronze or Aluminum.
- No limitations to shaft angle, blade top clearance, draft to restrict selection of optimum diameter propeller.
- Adaptable to a wide range of engine applications, whether gas, diesel, or turbine.
- Features
 - **Trimmable Propeller Shaft:** The propeller shaft is vertically adjustable, allowing selection of the optimum thrust angle for varying load and sea conditions.
 - **Positive Thrust Steering:** Unlike conventional systems that vector prop thrust off of a rudder, the Arneson Surface Drive angles in the direction of motion, maximizing steering control and response.
 - **Responsive Maneuverability:** Propellers are located aft, behind the hull, increasing steering leverage and improving maneuverability at all speeds.
 - **Shallow Water Capabilities:** The drive has a trimmable propeller shaft and no fixed underwater appendages, requiring significantly less draft than conventionally powered hulls.

Drives include:

- 1 Mechanical tie bar assembly
- Companion Flange
- Steering and Trim rams
 - Rams have internal position feedback sensors installed
 - 1 each drive
 - One steering ram was never installed and is brand new!
- Drives are crated and ready to ship.
- Propellers NOT included

Arneson web site for ASD-16:

<http://www.arneson-industries.com/page.php?type=products&id=asd16>

Parts also available upon request:

- Cardan jack shaft to go between drive and ZF 4540 Gearbox.
- Hydraulic controls for steering and trim systems
 - Proportional valves and blocks for steering and trim.

Photos:



