

AUTOMATED SOUND VELOCITY PROFILER (ASVP)

Specifications with IOS-100

ASVP Winch Specifications:

| | | |
|------------------|--|--------------|
| Dimensions: | 278cm L x 61cm W x 206cm H (with boom) | |
| | 92cm L x 61cm W x 114cm H (without boom) | |
| Weight: | 500 lbs (without boom) | |
| Material: | Aluminum – Marine Grade | |
| Winch Drive: | AC Flux-Vector Electric Motor | 5HP (3.7 kW) |
| Drum: | Core Diameter: | 22.8 cm |
| | Flange Diameter: | 35.5 cm |
| | Drum Width: | 30.5 cm |
| Slip-ring: | 4 Channel Water-Proof | |
| Level Wind Type: | Diamond Screw | |
| Input Power: | 220VAC, 3 phase, 50-60 Hz, 25 amps | |
| | or 440VAC, 3 phase, 50-60 Hz, 13 amps | |

ASVP Sonde Specifications:

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|---------------------|------------------------------------|---------------|
| Type: | Hydrodynamic Body with Stabilizers | |
| Weight in Air: | 128 lbs (58 kg) | |
| Weight in Water: | 100 lbs (45 kg) | |
| Dimensions: | Main Hull Diameter: | 20 cm (7.8”) |
| | Overall Width (with stabilizers): | 40 cm (15.7”) |
| | Overall Length: | 80 cm (31.5”) |
| Sensors: | Sing-Around SV (C T D Optional) | |
| | Sound Velocity Range: | 1400-1600 m/s |
| | Sound Velocity Accuracy: | +/- 0.05 m/s |
| Additional Options: | Free-Fall Penetrometer | |

Cable Specifications:

| | | |
|-------------|-----------------------------------|--|
| Type: | Double armored electro-mechanical | |
| Length: | 300 m | |
| Cable Dia.: | 0.186 in. (4.7 mm) | |
| Conductors: | 4 x 24 AWG | |

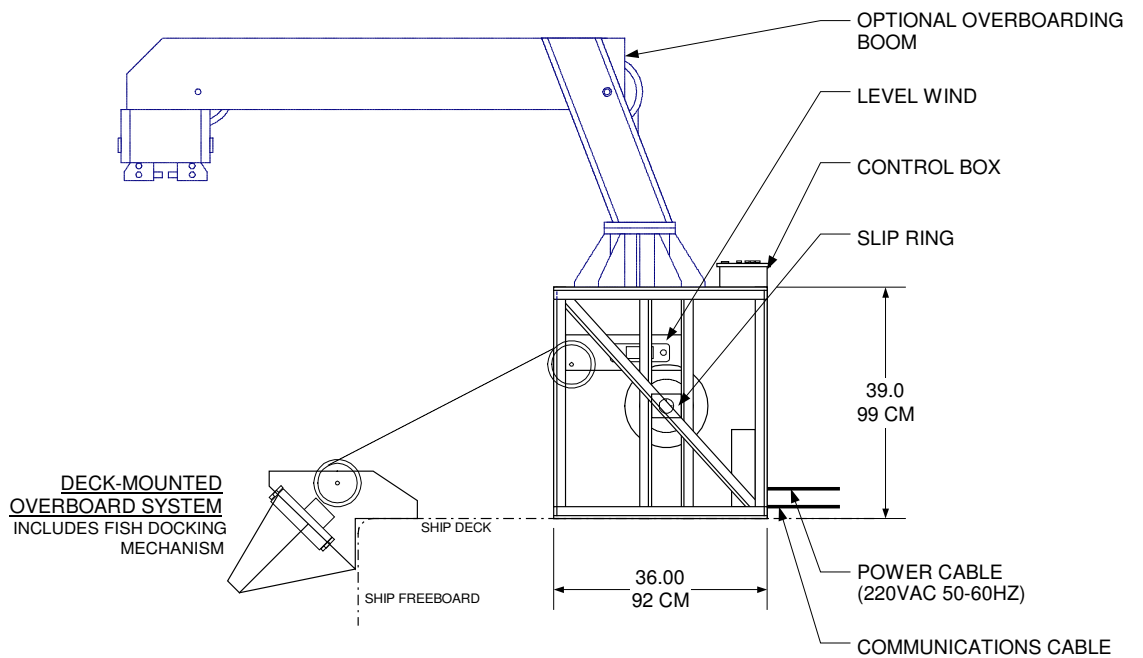
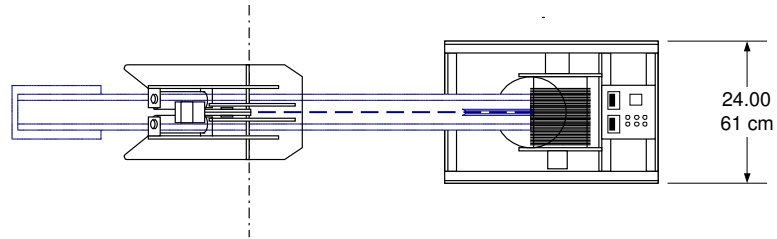
Operational Specifications

| | | |
|------------------|--|-----------------|
| Type: | Fully Automated sonde casts and retrieval with vessel underway | |
| Maximum Depth: | 100 m | |
| Vessel Speed: | 12 kts (6.2 m/s) | 6 kts (3.1 m/s) |
| Cast time:* | 3.0 minutes | 2.0 minutes |
| Vessel transit:* | 0.6 nm (1.1 km) | 0.2 nm (0.4 km) |

*Parameters, from start of sonde free fall to retrieval near surface, are approximate.



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