

CSW-7 Portable Electric Winch

The CSW-7 is an electric winch designed for use in oceanographic and geophysical research. This model is capable of lifting and lowering most small instrumentation payloads, while remaining light enough for four people to transport. It has a drum capacity of 1000 m of 0.25" cable. A slip ring adapter can be added to accommodate Mercotac slip rings or Klein sonar (modified Focal Technologies 180) slip rings. For Focal Technologies Model 180 fluid slip rings, please refer to the CSW-8 winch.

Typical uses: CTD profiling, side scan sonar towing, Rosette water sampling and seafloor coring

Models:

1 HP to 3 HP permanent magnet motor @ 90/180 VDC (1.5 HP to 3 HP @ 180 VDC only) with regenerative drive controller powered by 110/220 VAC

***Please specify: cable diameter and length, desired line speed, and load capacity

Features:

- 90/180 VDC models use 110/220 VAC and a regenerative drive controller (NEMA 4 case) with overload protection and 10 ft cable
- Frame dimensions are 27" L x 20.5" W x 23.5" H (24.5" W with footpads at bottom)
- With 22 inch reel, overall height is approximately 37"
- Nominal weight 210 to 285 lbs (without cable) depending on motor and gearbox selected
- Positive action "dog-clutch" allows free-wheeling for towing and paying out of line
- Torque adjustable manual disc brake for towing
- Shear pin lock
- Manual hand crank backup
- Drum capacity variable dependent on core selection, e.g. 600 m of 0.315" line
- Slip ring ready - two to eight conductor slip rings are available
- Watertight 3H Sub Sea connectors used on all connections except 110/220 VAC
- Wooden shipping and storage box

Options:

- Powered level wind
- Removable cable feed
- Slip rings
- Greater line capacity



CSW-9 Multipurpose Electric Winch

The CSW-9 is the mid-sized winch in the CSW-series winch product line. Designed as a portable electric winch for oceanographic and geophysics applications, this model is capable of lifting and lowering many instrumentation payloads (300 lbs typical). It is typically used to perform CTD profiling, instrument towing, and water sampling.

The CSW-9 is commonly employed with lightweight instruments on long cable lengths or heavy instruments on very short cable lengths. It fills the gap between the lightweight and heavyweight models in the CSW-series.

Features:

- Powder coated aluminum frame, anodized or powder-coated aluminum, stainless steel and engineering thermoplastic components
- Cargo strap lifting points, removable carrying handles
- Available for motors from ½ HP to 2 HP
- Powered by 110 VAC (up to 1 HP) or 220 VAC, 24 VDC (½ HP only)
- On/off drive-line coupler for freewheeling capability
- Manual disc brake
- Shear pin lock for towing (shear pin provided by customer)
- Manual hand crank backup
- Upright configuration for ease of use with small vessels and close-set davits
- Watertight sub-sea connectors (except 110/220 VAC plug)



Available Sizes:

- Typical CSW-9 footprint: 23" L x 20.5" W (58 cm x 52 cm)
- Typical CSW-9 overall height: 36" (90 cm)
- Available with drum flange diameters: 18", 19" and 20" (45, 48, 51 cm)
- Available with core diameters of 6", 8", 10", 12" and 14" (17, 22, 27, 33, 36 cm)
- Standard core width of 12" (30 cm)
- Nominal weight without wire: 190 lbs (86 kg) without optional features
- Typical cable capacities: 200-300 meters of polyurethane jacketed multi-conductor

Options:

- Powered mechanical level wind for smoother cable spooling with short fair lead distances
- Slip ring adaptors and stainless steel cage for customer supplied slip rings
- AGO-SR series stainless steel slip rings with military style IP67 connectors or MCBH connectors
- Control system options: dual controls, emergency stop switch, extended cables

All A.G.O. Environmental winches are built as customized versions of standard models, specifically outfitted to meet customer cable, payload and operational requirements. When enquiring, please specify: cable diameter, bend radius and length (or provide a cable manufacturer's specifications sheet), desired line speeds, payload information and operational information such as available power supplies, towed or profiling operations and generic transportation information (small craft, inshore, offshore, ATV, truck, helicopter, man-pack).