

Electric Instrument Winch

Brooke Ocean Technology Limited has developed a line of **Electric Instrument Winches** which are ideal for launches and other vessels where hydraulic power is not available and space is minimal.

The E-line of portable electric instrument winches offers the following features:

- Aluminum construction
- Variable-speed motor controller
- Right angle worm gearbox
- Remote pendant on 5m lead with "in/out" buttons, rotary speed control
- Motor, gearbox and controller mounted in a water-tight enclosure
- Stainless steel fasteners
- Powder-coated finish
- Accepts steel, stainless steel, synthetic fiber and EM cable types
- Fully factory tested and ready to run

Below are three examples of electric winches BOT has supplied, each of which has specifications custom-tailored to the clients needs.



220VAC 1-1/2HP electric winch, equipped with a large size drum and 450m of 0.25" dia EM cable, used as a multipurpose instrument winch.



220VAC 1HP winch, equipped with a small size drum and 200m of 0.186" dia. stainless steel EM cable, used to deploy current meters.



12VDC 1/2HP electric winch, equipped with a small size drum and 500m of 1/8" dia. stainless steel cable, as part of a small vessel CTD handling system.

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Available options and specifications are detailed overleaf.

EW 09-04

Electric Instrument Winch

Available Options:

Available Motors

- 0.5, 1.0 and 1.5HP motors
- 12VDC input (0.5HP only)
- 24VDC input (0.5, 1.0HP)
- 110/220VAC single-phase input

Slip Ring Options

- Mercotec 4-, 6- and 8-pass industrial grade slip rings
- *Coming soon:* Focal 180 4- and 6-pass slip rings

System Options

- Special data connectors
- Electromagnetic coupler brake for positive system locking - recommended for towed applications
- Cable supplied to customer specification, spooled under tension onto the winch drum
- Cable connectors and mechanical terminations supplied to customer specification

Specifications:

Cable Capacity

CABLE SIZE	DRUM SIZE		
	Small	Medium	Large
0.250" dia.	170m	260m	500m
0.1875" dia.	290m	445m	950m
0.125" dia.	695m	1050m	2100m

Winch Performance

	0.5HP			1.0HP			1.5HP		
	DRUM SIZE			DRUM SIZE			DRUM SIZE		
	Small	Medium	Large	Small	Medium	Large	Small	Medium	Large
Line Pull (kg) - Full Drum	31.0	31.0	25.5	47.3	47.3	38.9	66.5	66.5	54.6
Line Pull (kg) - Bare Drum	42	42	42	64	64	64	90	90	90
Line Speed (m/s) - Average	0.33	0.33	0.37	0.50	0.50	0.56	0.96	0.96	1.09

Brooke Ocean Technology can supply an electric instrument winch suited to your requirements. Contact us today to discuss your requirements!

BOT makes a line of CTD Handling Systems incorporating the electric winches described here - contact us for more information!



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