

AGO

ENVIRONMENTAL ELECTRONICS LTD

Product brochure:

REFURBISHED GEONICS WINCH DATASHEET

OVERVIEW

This used vintage Geonics borehole winch has been given a second life and restored with a new motorized drivetrain upgrade. With a relatively lightweight frame and wide drum, it can be ideal for applications requiring portability and high cable capacity with similarly light cables and payloads.

This is a unique model. Only one is available as-is.



Rated capabilities

	Core	Full drum
Line speed	0 to ~61 ft/min (18 m/min)	0 to ~130 ft/min (40 m/min)
Maximum line pull	82 lbs (37 kg)	37 lbs (17 kg)
Electric brake hold	N/A – no electric brake	

Please review the sample applications that have been validated against this winch's capabilities on the following page. Check with A.G.O. to verify winch's capabilities against other cable and payload combinations before using winch with other cables or payloads. The winch may be suitable for use with cables and/or payloads other than those listed on the following page.

Nominal dimensions

Width	Length	Height	Weight
29" (74 cm)	27" (69 cm)	20" (51 cm)	74 lbs (33.5 kg)

Features

Drivetrain	
Motor	Leeson 1/4HP 125RPM IP55 steel 90VDC PMDC motor
Chain	#35 Tsubaki Neptune corrosion-resistant treated steel drive chain
Sprockets	18:60 steel sprockets

Electrical	
Winch input power	Winch requires 110VAC 1-phase power, 50 or 60Hz (specs calculated for nominal 60Hz input)
Operation interface	Simple FWD/REV direction switch and speed control knob integrated into KBRC-240D motor controller unit
Status indicators	Motor controller includes three small motor status indicator lights: Green = Winch is running, Yellow = E-Stop active, Red = Overload/error
Cable lengths	3m (10ft) long power cable, 3m (10ft) cable between winch and motor controller unit
Slip ring	3 conductor non-coax slip ring

SAMPLE APPLICATIONS

This is not an exhaustive list of the only applications this winch could be used with. Other payload and cable combinations may be within this winch's capabilities as well. Please check other unlisted payload and cable combinations with A.G.O. to see if this winch would be able to handle them.

The payload weight limits listed below are for non-towed applications and do not include any allowance for additional forces (e.g. drag and heaving from waves) beyond the nominal weight of the payload and cable.

These tables are not a reference for what cables and lengths are compatible with different payloads. Please refer to your payload manufacturer for validation on what cables and lengths can be used with your payload.

A.G.O. does not stock any cables or payloads.

Sample cables and payload weight limits

1/8" steel wire rope		
Cable length	500m	250m
Max payload weight	35 lbs (15 kg)	59 lbs (26 kg)

3/16" Amsteel Blue rope					
Cable length	1300m	1000m	750m	500m	250m
Max payload weight	25 lbs (11 kg)	35 lbs (15 kg)	42 lbs (19 kg)	52 lbs (23.5 kg)	63 lbs (28.5 kg)

3/16" steel wire rope	
Cable length	250m
Max payload weight	29 lbs (13 kg)

3/16" armoured Rochester A240185 4-conductor cable	
Cable length	250m
Max payload weight	31 lbs (14 kg)

Payload examples

Payload	Nominal weight
EMIT DigiAtlantis borehole probe	16 lbs (14 kg)
Geonics EM39 borehole probe	5 lbs (2.3 kg)
Geonics GAMMA39 borehole probe	4 lbs (1.8 kg)
Geonics EM395 borehole probe	5 lbs (2.3 kg)
Geonics BH43-3 borehole probe	21 lbs (9.5 kg)