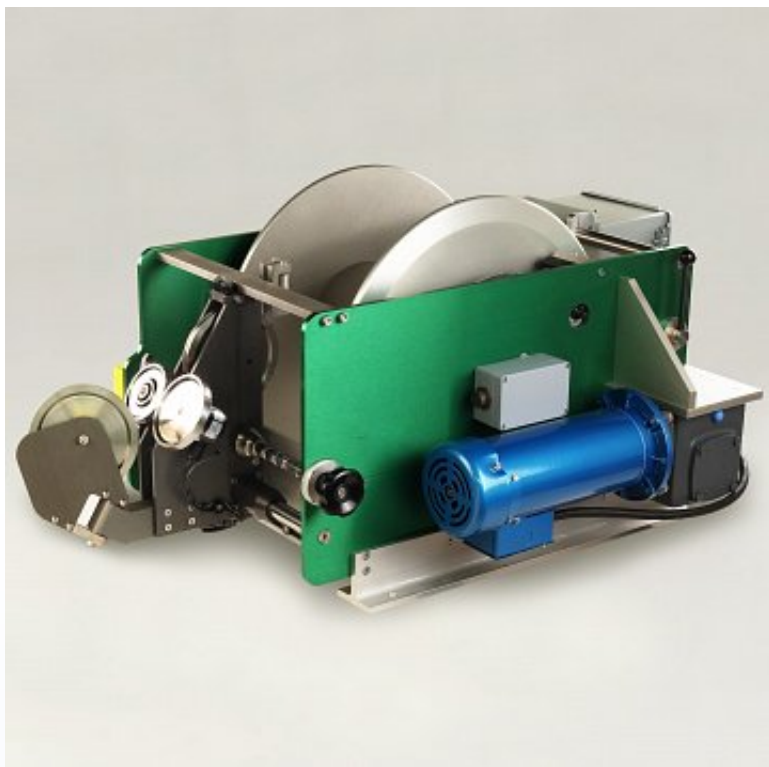


## WNA Winch Data Sheet

Designed to be mounted within a vehicle the WNA winch can spool up to 1800m of wireline cable. The winch is fitted with slip rings, depth encoder and level wind gear to form a complete self-enclosed package.



*WNA Winch and tension gauge. Image Courtesy of Mt Sopris Instruments.*

The winch controller displays the depth, speed and tension during data acquisition, providing immediate confirmation of any deployment issues. The WNA winch was designed to be used with the MATRIX logging console and LoggerSuite software to support all Mount Sopris, ALT and third party borehole tools.

The WMA Winches are designed to handle loads up to 272Kg at rates between 0 and 90m/min. These winches are optimal for boreholes between 1000 and 1800 meters in depth and support a wide variety of cable types.

These winches can be supplied with custom fittings for installation into an existing vehicle, or if preferred a complete - ready to run - fully interrogated borehole logging vehicle can be supplied. To date Geomatrix have facilitated and managed numerous vehicle outfitting in conjunction with Mount Sopris instruments for European and African customers.



*Integrated Mount Sopris Borehole Logging system with adjustable boom, winch, probe storage and work station.*

4WNA	Max Speed	Max Continuous Load	Max Instantaneous Load
Low Speed	9 m/min (30 ft/min)	272 kg (600 lbs)	363 kg (800 lbs)
High Speed	27 m/min (90 ft/min)	113 kg (250 lbs)	136 kg (300 lbs)

4WFA	Max Speed	Max Continuous Load	Max Instantaneous Load
Low Speed	30 m/min (100 ft/min)	272 kg (600 lbs)	363 kg (800 lbs)
High Speed	90 m/min (300 ft/min)	113 kg (250 lbs)	136 kg (300 lbs)

*Table outlining the performance of the 4WNA and the 4WFA winches.*

## Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	114cm x 52cm x 66cm	110kg

## Technical Specifications

<b>Motor:</b>	1hp, SCR type.
<b>Controller:</b>	SCR controller, with 10 Amp current limit.
<b>Power:</b>	Can be supplied to run on 220V or 110V.
<b>Depth Encoder:</b>	BEI Model H20 (200 pulses/turn).
<b>Wireline Tolerance:</b>	Supports Coaxial, Single and Multi-Conductor Wirelines.
<b>Cable off-axis Tolerance:</b>	20° left, 20° right, 15° down, 90° up.



**Cable Capacity:** 1800m of 4.76mm cable.  
**Temperature:** -20 to 50 °C

## Gallery



*Tow hitch tripod in rear of logging vehicle.*



*Rear of logging vehicle with integrated winch and probe rack.*



*Winch integrated behind the passenger seat of a 4x4 vehicle with inverter for powering the system off the vehicle battery.*



*Borehole Logging work station in the back of a Toyota Hilux*