

# MX Series Winches

[mountsopris.com/items/mx-series-winch/](http://mountsopris.com/items/mx-series-winch/)

## Description

The MX Winch is a logging hoist capable of positioning a geophysical probe or other tools in a borehole. The MX winch line is comprised of the 4MXA-1000, 4MXB-1000 and 4MXC-1000. The system is equipped with a slipping and connections through which surface instrumentation can communicate with the probe.

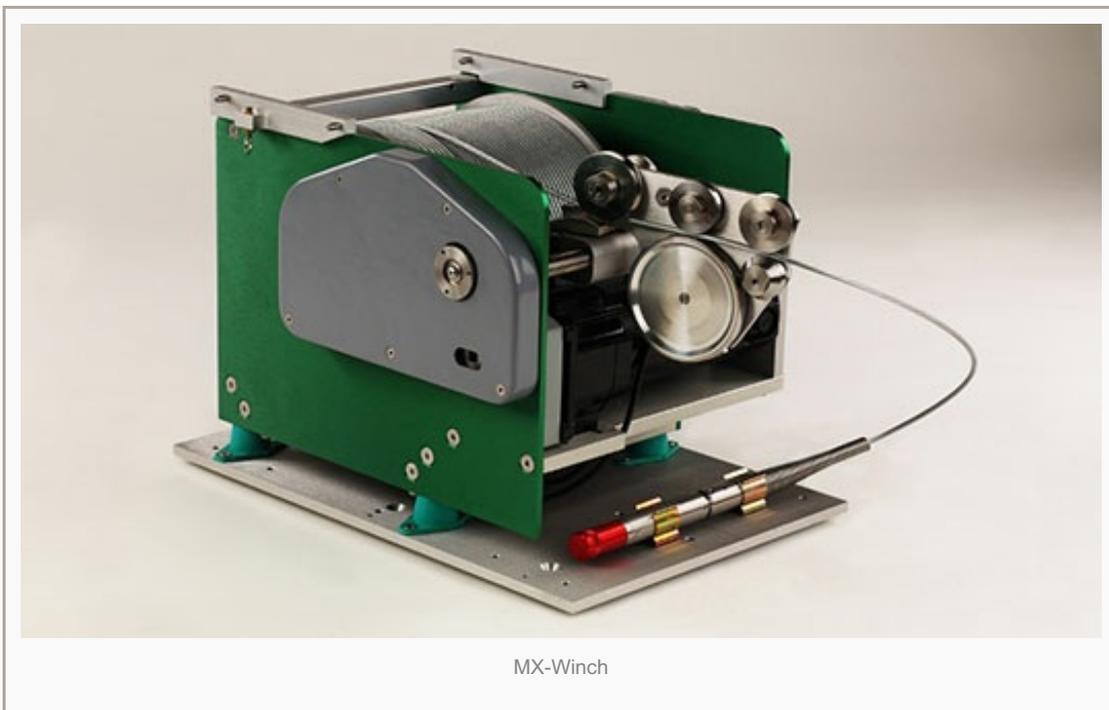
A precision measuring wheel and rotary encoder are also included to allow the amount of cable played out to be tracked. The cable is automatically wrapped on the drum in even layers through the level wind mechanism.

The motor is controlled by an 110V (or 220V depending on the model) four-quadrant motor speed controller that allows the speed to remain constant with a varying loads and prevents overhauling with heavy loads. It includes a mechanical brake.

The winch is designed to be used in conjunction with the MATRIX or BBox console and a portable PC to achieve a complete logging system.

**NOTE:** When using a DC inverter to power the winch, a true sine-wave inverter is required for smooth winch operation. Minimum power requirement for such an inverter is 600 watts, which should also allow operation of the logger.





## Basic Specifications

**Motor:** 1/4 hp, SCR type

**Controller:** 4 Quadrant, with current limit

**Speed:** 0 to 26 m/min (85 ft/min)

**Load:** 46 kg (100 lbs)

### Cable Capacity:

- 4MXA-1000: 500 m (1640 ft) 1/8" (3.17 mm) diameter single conductor cable
- 4MXB-1000: 480 m (1575 ft) 3/16" (4.76 mm) diameter single, coaxial, or four conductor cable
- 4MXC-1000: 1000 m (3281 ft) 1/8" (3.17 mm) diameter single conductor cable

### Shipping Weight:

- 4MXA with 500 m of 1/8" (3.17mm) diameter cable = 70 kg (155 lbs)
- 4MXB with 480 m of 3/16" (4.76mm) diameter cable = 98 kg (217 lbs)
- 4MXC with 1000 m of 1/8" (3.17mm) diameter cable = 105 kg (233 lbs)

### Winch Size:

- 4MXA-1000: 40.6 x 52 x 30.5 cm (16 x 20.5 x 12")
- 4MXB,C-1000: 40.6 x 55.9 x 38.8 cm (16 x 22 x 14.5")
- Case Size: 66 x 66 x 61 cm (26 x 26 x 24 ")

**Cable off-axis Tolerance:** 10° left, 10° right, 12° down, 45° up

**Depth Encoder:** Quadrature 200 pulses/turn standard, others available.



Logging with MX Series Winch in the Field

## Documentation

[Winch Brochure](#)

[MX Winch Operations Manual](#)