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MX Winch Data Sheet

MX Winch Series

The **MX Winch Series** features a motorized, medium-sized spool with an integrated controller, offering reliable performance for a variety of geophysical logging applications. Capable of supporting up to 500 meters of single-conductor wireline, the MX winch provides the ideal balance of power and flexibility for both standard and specialized logging tasks.



MX Winch deployment off of a Drill Rig. Image courtesy of Mount Sopris Instruments.

MX Winch Features and Capabilities

The **MX Winch** is equipped with a four-quadrant motor speed controller, which ensures a constant bailing speed, even when dealing with varying loads. It offers flexibility in terms of wireline compatibility, supporting a range of types and gauges, including coax, single-conductor, and multi-conductor cables.

- **Level Wind Mechanism:** Automatically wraps the cable onto the drum and includes a rotary encoder to accurately track the amount of cable released, ensuring smooth and precise operation.
- **Console Integration:** The MX Winch can be paired with either the MATRIX or BBox console, providing a complete and reliable logging solution for various geophysical applications.

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- **Rugged and Portable:** The winch is supplied mounted within a durable transit case for easy transportation, or it can be securely mounted within a vehicle for field deployment.

As with all Mount Sopris winches, the MX Winch series is fully compatible with all Mount Sopris and ALT borehole logging tools, as well as many third-party tools, ensuring broad compatibility and versatile performance.

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	40.6cm x 52cm x 38.8cm	70kg (with 500m single conductor cable)

Technical Specifications

Motor:	¼ hp, SCR type
Controller:	4 Quadrant, with current limit.
Depth Encoder:	BEI Model H20 (200 pulses/turn).
Wireline Tolerance:	Supports Coaxial, Single and Multi- Conductor Wirelines.
Cable off-axis Tolerance:	10º left, 10º right, 12º down, 45º up
Speed Range:	Low Gear: 9.14m/min 272kg load. High Gear: 27.4m/min 113kg load.
Cable Capacity:	4MXA w/500m of 3.17mm dia. Cable: 70 kg 4MXB w/305m of 4.76mm dia. Cable: 98 kg 4MXC w/1000 m of 3.17mm dia. Cable: 105 kg
Temperature:	-20 to 50 ºC
Load:	46kg.
Power:	600W @220V

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