MERMAC S

Multi-purpose winch series

First introduced for handling delicate oceanographic equipment, the MacArtney MERMAC S electrically driven winches are advanced and robust systems suited to a wide range of general marine applications.

MERMAC S winches feature several purpose-built options, making them ideal for side scan sonars, corers, CTD systems, towed vehicles, and other types of instruments and equipment.

MacArtney MERMAC S winches combine reliability with controllability and are supplied with variable speed, tension read-out via an integrated load cell.
A PLC on the winch controls the electrically driven level wind and transmits encoder and load cell data to a display showing winch speed, paid-out cable length and alarms. The PLC can also interface with other control systems.

The winches can be adapted to suit various cable diameters and are also available with interchangeable drums. Spare drums can be pre-spooled with different cable sizes and swapped as needed, allowing for a swift change of winch application.

MacArtney MERMAC S winches are often integrated into complete vessel winch and handling solutions.

Features and benefits

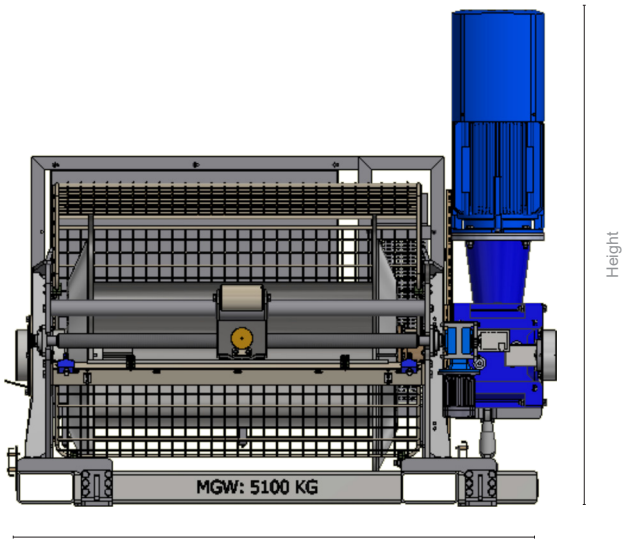
- Forklift pockets
- Integrated load cell
- Compact and modular design using standardised and exchangeable components
- All structural components in painted carbon steel
- Electrically driven level wind
- Adaptable to suit various cable diameters
- Exchangeable cable drums
- Long and proven track record
- Low-noise operation
- Wireless remote control with emergency stop, joystick, and 2-line display (speed, cable out, tension, alarms)
- Standard MERMAC S20 includes a frame

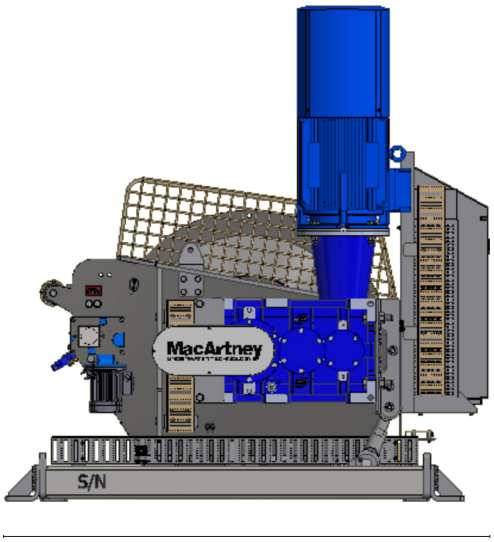
Applications

- Side scan sonar systems
- Sub bottom profiler systems
- Oceanographic profiling and CTD systems
- Remotely operated towed vehicles (ROTVs)
- General oceanographic instrumentation and applications

System options

- Service and maintenance programme
- Spare parts packages
- Ancillary cable drums
- PC control with protocol
- A-frame, davit or deck crane
- Cable sheave
- Moog Focal electric/electro-optical slip ring model 180 or 176
- Tarpaulin cover
- LeBus sleeves
- Other cable diameters are available upon request
- Frame for MERMAC S30 and S40





Specifications

	Winch dimensions (Width/depth/height)	Drum dimensions (Core/flange x length)	Cable OD	Cable capacity (Length)	Winch weight	Pull (Layer 1)	Speed (Layer 1)	Motor size	Power supply
model	mm	mm	mm	m	kg	kN	m/min	kW	V
MERMAC S20	1,505/1,395/1,865	ø460/ø900 x 650	8.2-11.4	4,250-2,100	1,800	23	0-50	22	3x400/440
MERMAC S30	2,096/1,867/1,881	ø560/ø1,075 x 1,070	9.98-17.3	6,680-2,020	2,400	28	0-40	22	3x400/440
MERMAC S40	2,736/2,102/2,076	ø600/ø1,200 x 1,110	11-20	7,100-1,990	3,000	53	0-48	55	3x400/440

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