



PRO LYFT

Theatre Products Simplicity in Motion



PROLYTE GROUP

PILEWINDWINCH

Affordable winches

Pile wind winches provide an affordable alternative for situations where accurate positioning and speed matter less, like non-performance situations or maintenance bars.

The Pile wind winch wraps its steel wire in a multi-layer fashion on the winch drum. The wire runs through a narrow gap that is barely wider than the steel wire itself.

Modular design

The drums are modular and can be easily adapted to the thickness of the wire and the number of steel wires. The winches can be equipped with several control options.

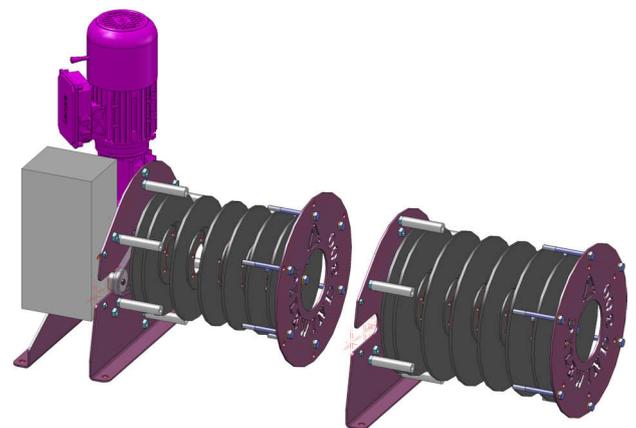
Pile wind winches are standard available for loads up to 750kg at speeds of 4 to 16m/min. Standard lifting heights are 5-27m.

PRINCIPLE OF PILE WIND: SPEED, POWER AND POSITION WILL VARY.

Based on the principle of a pile wind, the speed will decline when the wire is unrolled and the pile gets smaller. As a result the speed difference can be up to 50% for a 20m pile wind winch with a 10mm steel cable.

The change in diameter of the pile also influences the available torque and the accuracy of the winch.

Therefore, the mentioned speed always refers to the maximum speed.



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SPECIFICATIONS PILE WIND WINCH

Available versions:

Standard lifting capacity 70-750kg.
Fixed speed 4m/min, variable speed 0-4, 0-8, 0-16m/min.
Lifting height 5 or 27 m.
Drum for 2 to 10 steel wires, 4 – 10mm diameter.
Drum for rope or bungee on request.

Specifications:

Minimum safety factor on the steel wires: 10.
3 phase a-synchronous motors, 400V.
Double brake, or single brake with self-braking gearbox (depending on type).
Vario speed based on closed-loop invertors
Vario speed types are standard equipped with over speed protection
Safety factor on gearbox: 2.
Limit switches.
All winches according to BGV-D8+ and SIL2.

Options:

Optional low noise (theatre) brakes.
Overload and underload protection.
SIL3/BGV-C1 E-stop.
Incremental encoders with battery backup.
Absolute encoders.
Load visualization.

OPERATOR PANELS

Manual up/down/speed
Local (single axe) control; up/down/e-stop/speed adjust, key switch/ reset.
Central (multi axe) control; winch selection switchboard with an attached single axe controller to execute the moves.

Position control

Local (single axe); able to teach-in and select 5 positions with an attached single axe controller to execute the moves.
Central (multi axe); LCD screen control with teach-in and select of 5 positions per winch. To be combined in 20 cues. Positioning can be speed or time synchronized. Moves are executed with an attached single axe controller.



SELECTION TABLE

front/motor-plate	sideplate	lifting height***			WLL (kg)					
		4mm	5mm	6mm	m1 - 0,25KW	m2 - 0,25 KW	m3 - 0,35 KW	m4 - 1,1 KW	m5 - 2.2 KW	m6 - 2,2 KW
max. Pile diameter(mm)	pile diameter (mm)				4 m/min fixed/ variable	4 m/min fixed/ variable	4 m/min fixed/ variable	16 m/min variable	16 m/min variable	16 m/min variable
300	250	8	6	5	110	244	522	278	456	1240
300	300	13	10	8	81	178	382	204	333	907
400	350	20	15	12	78	173	371	198	323	881
400	400	27	21	18	68	151	324	173	283	769

*** no less then 2 cables per winch must be used to ensure a safety factor of 10