

45ft Aluminium Wireline Mast

The WILITEC aluminium wireline mast has been designed for your offshore slickline and wireline operations.

The mast is fabricated from a base frame skid mounted with three outriggers fold alongside the main boom framework to make the mast compact. The control for erecting the mast is on the base frame. The shape of the boom is from a robust tubular aluminium construction.

Robust, lightweight,
self-supporting
structure.

Dimensions & Weights

45ft Mast

dimension (L x W x H)	m	5.39 x 1.53 x 1.94	ft	17.7 x 5.0 x 6.4
weight	kg	1177	lbs	2595



Design, General

- Base frame.
- 3 mast sections.
- 2 fixed jacking rear-stabilizers (adjustable).
- 2 swivelling jacking front-stabilizers (adjustable).
- Hydraulic mast folding system with locking system.
- 1 hydraulic winch (main), 3300 lbs / 1500 kg.
- Optional hydraulic winch (second/utility), 550 lbs / 250 kg.
- Optional manual winch to lift the tool catcher, 220 lbs / 100 kg (hydraulic alternative is optional also).
- Hydraulic valve blocks for winch and cylinder control.
- Upper sections of the mast having hydraulic controlled latches / locking.
- During service the boom would be secured by guy ropes and turn buckles supplied with the unit.
- Lower wireline sheave assembly fitted with removable section.
- Frame inside base frame fro guiding wire line in case it is coming from winch behind the mast.

Operational dimensions unfolded

- Total length : 6700 mm / 21.98 ft.
- Total width : 5100 mm / 16.73 ft.
- Toal height : 14600 mm / 47.90 ft.



Specifications

- Max wireline pull : 2700 kg / 6000 lbs.
- Safe working load (WLL) : 5400 kg / 12000 lbs (Max load on mast wireline double reeved).
- Hydraulic winch single reeved : 1500 kg / 3300 lbs.
double reeved : 3000 kg / 6600 lbs.
- Max lifting speed : 20 m/min.
- Max wind speed rigging up / down : 11 m/s / 25 mph.
- Max wind speed operational, unguyed : 13 m/s / 30 mph.
- Max wind speed operational, guyed : 27 m/s / 60 mph.
- Enviroment temperature : -20°C to 50°C.

Required power supply

- Power : minimum 20 kW.
- Pump type : gear or plunger pump.
- Min hydraulic pressure : 210 bar / 3000 psi.
- Max hydraulic return pressure : 0-2 bar / 0-30 psi.
- Max hydraulic flow : 40 l/min / 10.5 gal/min.

Option

- Transportation basket crash frame DNV-GL-ST271.
- ATEX zone 1 & 2 certifications.
- 70 ft and 90 ft mast heights.
- Hydraulic second auxiliary winch.
- Jacking wheels.

certificate by



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