



WELL INTERVENTION

Wireline Equipment

TIS Wireline Masts



TIS Manufacturing | Well Intervention | Wireline Masts

TIS Wireline Masts are designed to position the lubricator stack onto the wellhead and to assist in feeding the wire into the top of the stack during well service operations.

Bespoke wireline masts can be configured for all slickline and braded line applications, and are typically used alongside lightweight kit in remote, weight restrictive or mobile applications.

Typical features can include:

- ▶ Telescopic Boom c/w Automatic Latching System
- ▶ Folding Boom
- ▶ Hydraulic Winch System
- ▶ Local Control Console
- ▶ Colour-coded Guy Rope Set
- ▶ Optional Hand Winch for sheave deployment
- ▶ Optional Integral Powerpack
- ▶ ATEX Zone compliant design
- ▶ DNV complaint structural design
- ▶ AHC System



Wireline Masts | Telescopic Boom

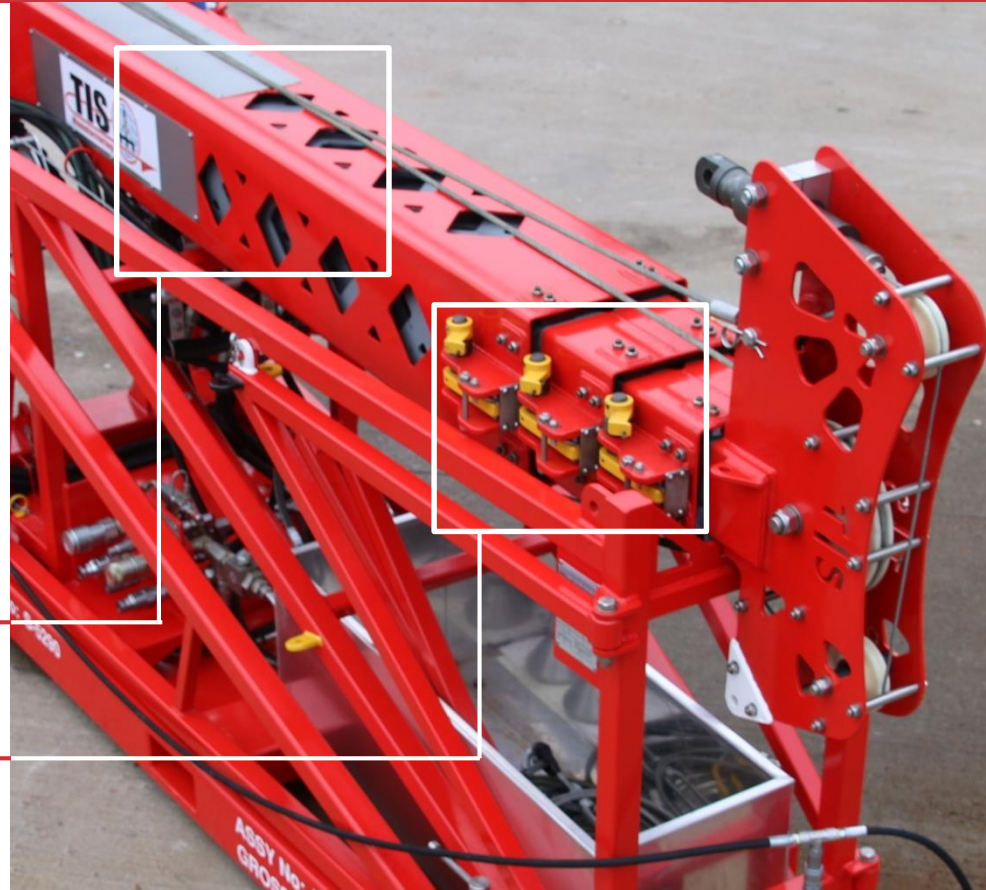
A **Four-Section Telescopic Boom** lies horizontal in transportation position and is erected to a vertical position by a **Double-acting Hydraulic Cylinder**.

A **Three Stage Integral Telescopic Hydraulic Cylinder** extends each section of the boom into locking position.

Automatic latching mechanisms secure each of the sections in place as the boom extends.

FOUR-SECTION TELESCOPIC BOOM

AUTOMATIC LATCHING MECHANISMS



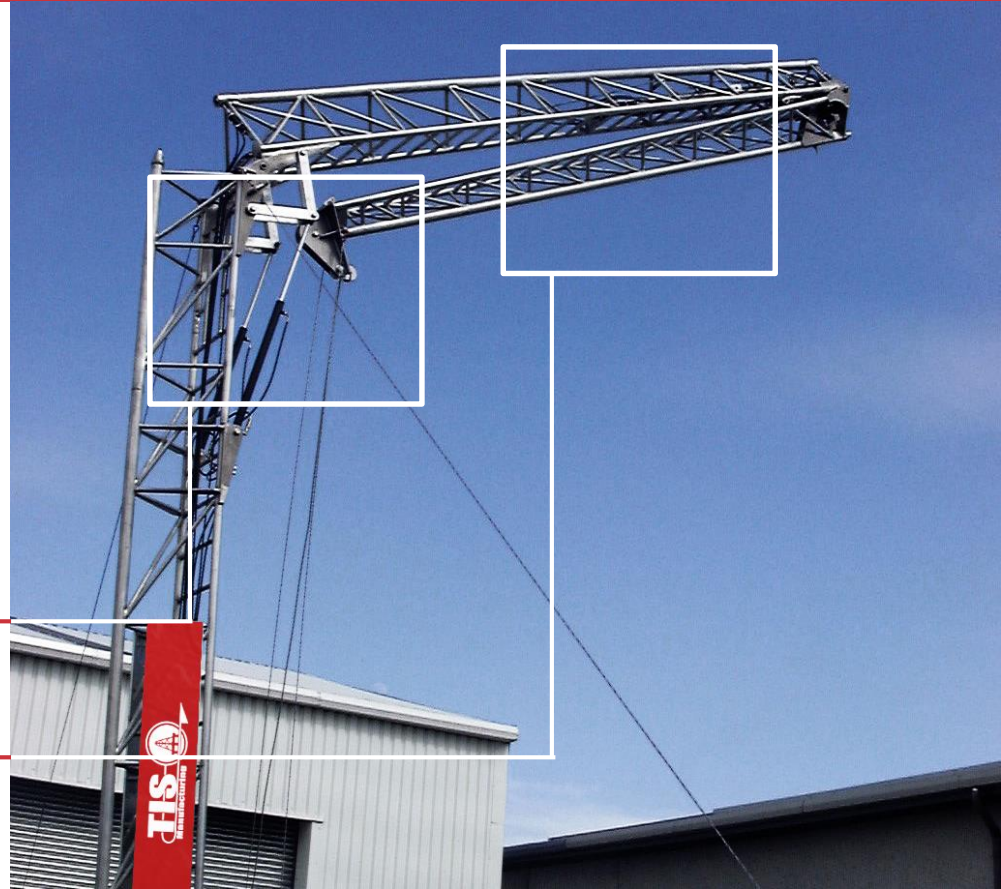
Wireline Masts | Folding Boom

A **Three-Stage Folding Boom** lies horizontal in transportation position and is erected to a vertical position by **Hydraulic Cylinders**.

The Mast Boom is constructed aluminium hollow section tube with triangular cross sections to provide maximum lifting strength from an extremely lightweight structure.

HYDRAULIC CYLINDERS

THREE-STAGE FOLDING BOOM



Wireline Masts | Hydraulic Winch System

A **Hydraulic Winch System** is fitted on the underside of the boom assembly and has a safe working load suitable for lifting the required lubricator stack - typically 2,000kgs.

An **Integral Fail Safe Braking System** acts as a protective measure to provide a safe and controlled winch operation.

HYDRAULIC WINCH SYSTEM



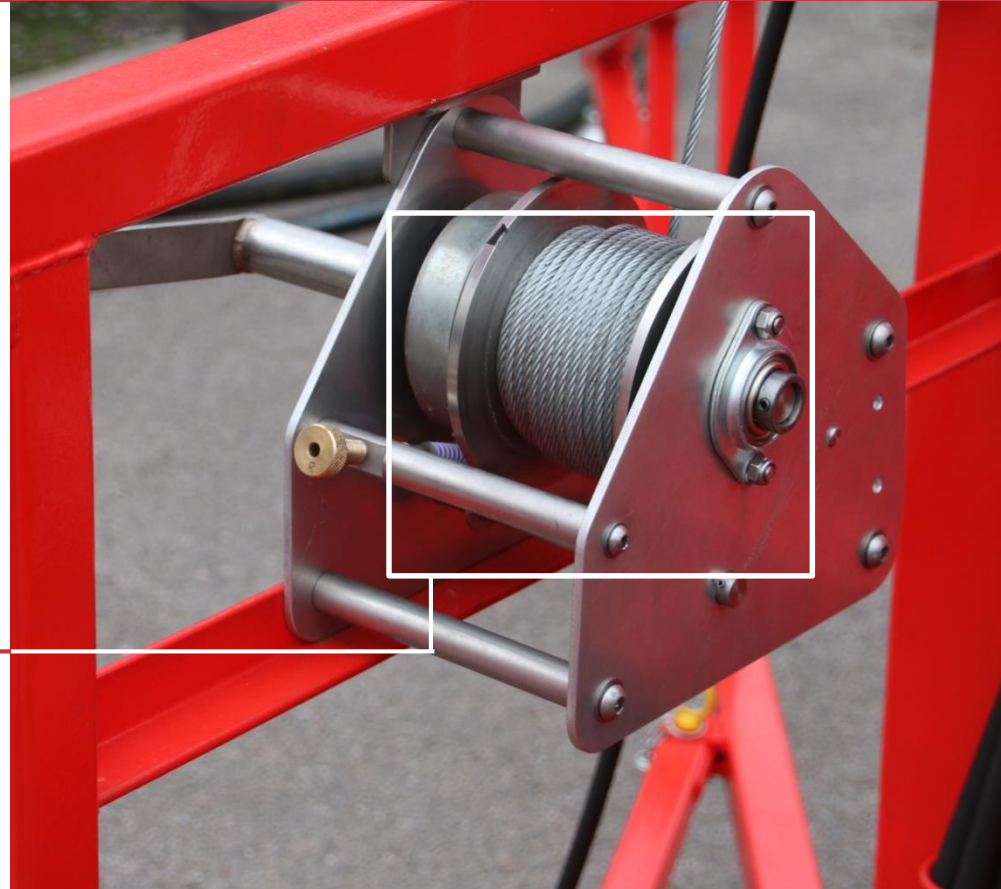
Wireline Masts | Hand Winch

An optional **Hand Winch** can be installed on the mast framework and provides a means of deploying a **Wireline Sheave**.

The sheave arrangement locks into a latch assembly on the mast crown, which features a quick release fixture for lowering the sheave.

This facility allows the operator to change between sheaves without the need to lower and raise the boom.

HAND WINCH



Wireline Masts | Local Control Console

A **Local Control Console** is used to operate the wireline mast and is installed with an engraved colour coded stainless steel panel identifying each function.

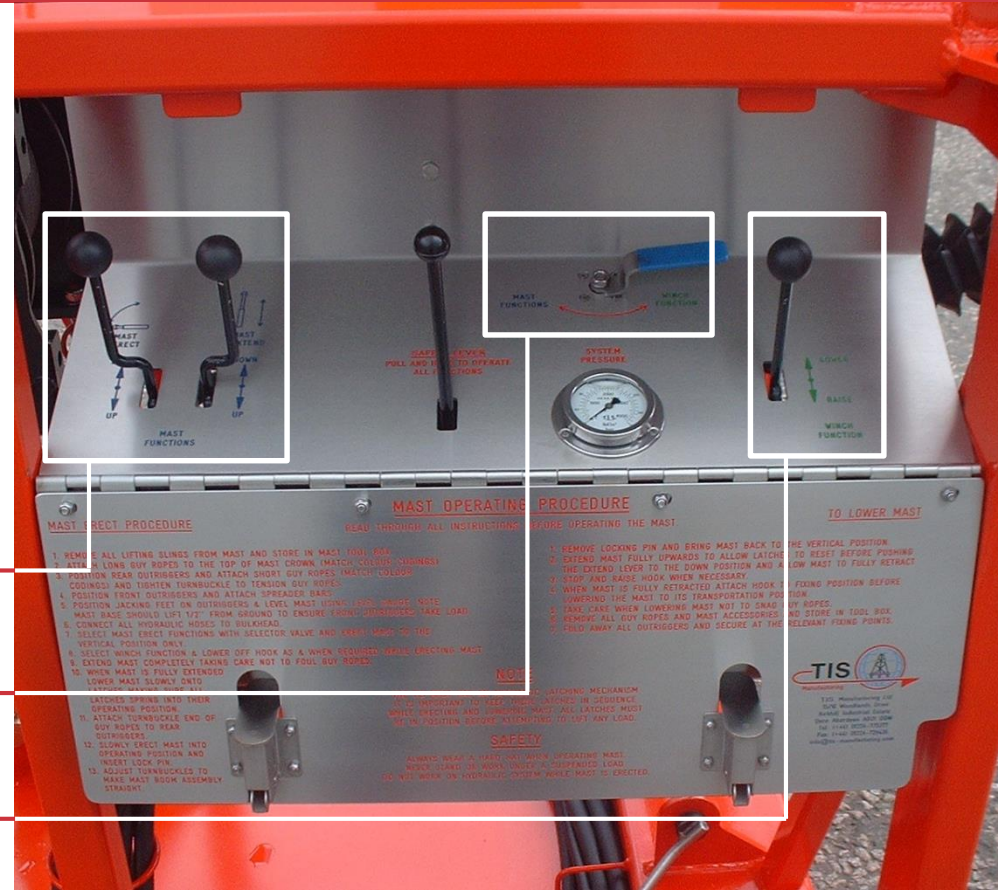
The operator is provided control over the **Mast Erect Lever**, **Mast Extend Lever** and the **Direction Control Lever** for the hydraulic winch.

A **Selector Valve** diverts the hydraulic power supply between the mast and winch.

MAST ERECT LEVER & MAST EXTEND LEVER

SELECTOR VALVE

DIRECTION CONTROL LEVER



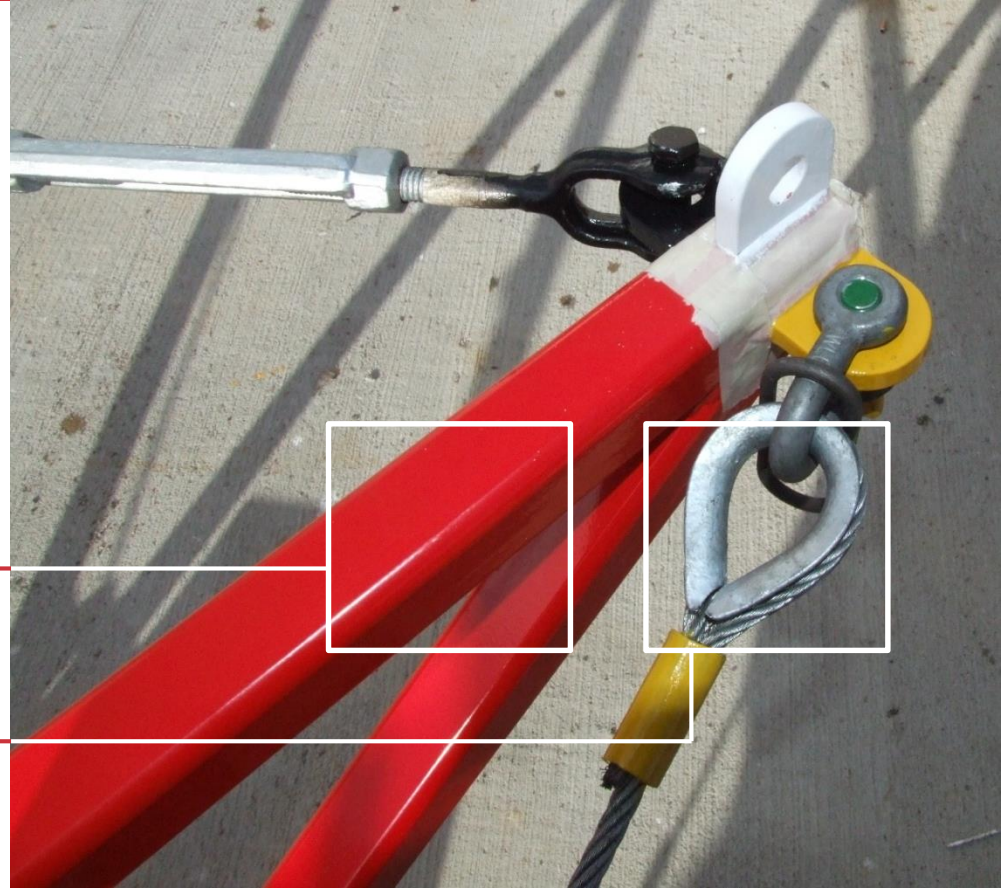
Wireline Masts | Guy Ropes & Outriggers

A colour coded **Guy Rope Set** is provided with each wireline unit for connection to **Rear Outriggers** and for additional securing to the deck if required.

Front Outriggers provide further stability for the unit during operation, resulting in an extremely robust lifting construction.

REAR OUTRIGGER

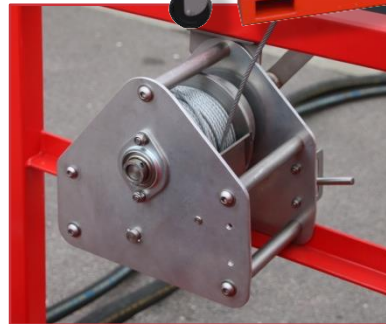
GUY ROPE SET



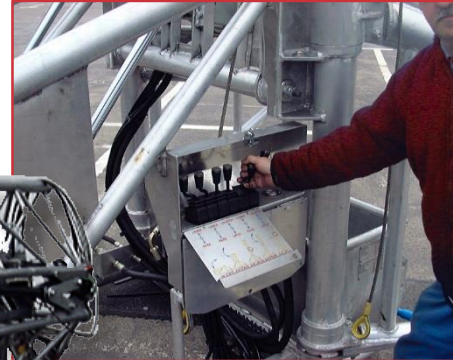
Wireline Masts | Equipment Deliveries



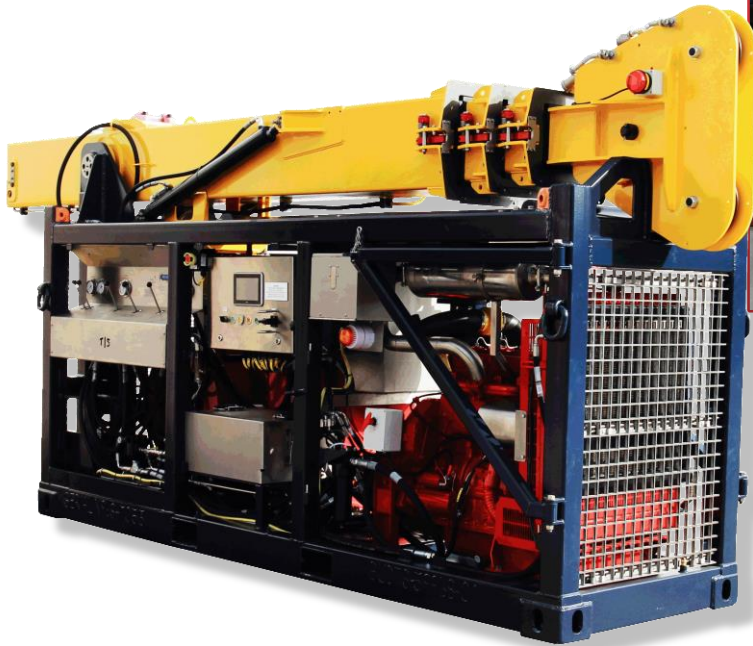
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