

## Winches, Gear Drives, Brakes and Clutch Systems for the Marine & Offshore Industries

### Riser Installation Winch

LANTEC engineers and manufactures FPSO equipment to operate in the harshest, most extreme conditions around the world. This ABS classed Riser Installation Winch is one example of LANTEC's innovation at work. Installed on a disconnectable turret mooring system, this hydraulically-driven winch is used to pull in and install the risers and umbilicals from the subsea riser hang-off to the riser deck on the FPSO turret. The winch is driven by four LANTEC planetary drives to achieve the rated line pull of 120 MT on top layer. The drum carries 245 m of 76 mm (3") synthetic fiber rope. LANTEC custom designed this winch to provide our customer with an economical solution that was tailored to meet the specific requirements of the FPSO project.

LANTEC pull-in winch designs are scalable to meet line pulls up to 300 MT.



### Mooring Leg Installation Winches

LANTEC designed and manufactured two Mooring Leg Installation Winches for SOFEC, a global leader in the development of Single-Point Mooring (SPM) systems. Each winch is hydraulically driven by five LANTEC planetary drives, which power a cable drum through a single large bull gear and is capable of developing approximately 1,250 kN-m of drum torque. These performance figures result in a line-pull capability of 150 MT at top layer. LANTEC's winches are engineered to carry 270 m of 66 mm wire rope and when installed will weigh a total of 25,000 kg each. In addition, one of the winches incorporates a high capacity automatic level winding system to ensure even spooling at high fleet angles. LANTEC's mooring leg installation winches will be used to install and tension anchor mooring legs to keep a ship on station for extended periods of time.

# LANTEC<sup>®</sup>

by **TWG**

The following is a partial list of LANTEC products related to offshore projects. Further details are available upon request.

Customer Name	Product	Application
Hydradyne (SOFEC)	30MT Winch	Bridge and Cart Winch
Hydradyne (SOFEC)	7MT Winch	Bridge and Cart Winch
Hydra Works	423,000 in-lb Drive	Jack-up Drive
Huber Inc	423,000 in-lb Drive	Jack-up Drive
Hydradyne	2,000,000 in-lb Drive	Elevator Drive
SOFEC Inc.	150MT Winch	Mooring Leg Installation and Tension
STFA Construction Group	142MT Winch	Marine Construction Heavy Lift Winch
Patco Machine & Fab Inc (Transocean)	27T Winch	BOP Handling Winch
Allied Power Products	94T Winch	Mooring/Fleeting Winch
Exmar Offshore Company	44T Winch	Messenger Chain Tension
The Monobuoy Company	40T/23 Winch	Messenger Chain Tension
SOFEC Inc.	120MT Winch	Riser Pull-in Winch
SOFEC Inc.	18.5MT Winch	Swivel Maintenance Hoist
SOFEC Inc.	5MT Winch	Swivel Maintenance
SOFEC Inc.	10MT Winch	FPSO Mooring

For more information on LANTEC offshore crane hoist options and features, contact a TWG representative.

As a leader in product innovation, TWG is committed to the ongoing improvement of its equipment. TWG reserves the right to make changes to our products without notice.

TWG Canada  
19350 – 22nd Ave  
Surrey, BC V3S 3S6  
Phone: +1-604-547-2106  
[www.dovertwg.com](http://www.dovertwg.com)

