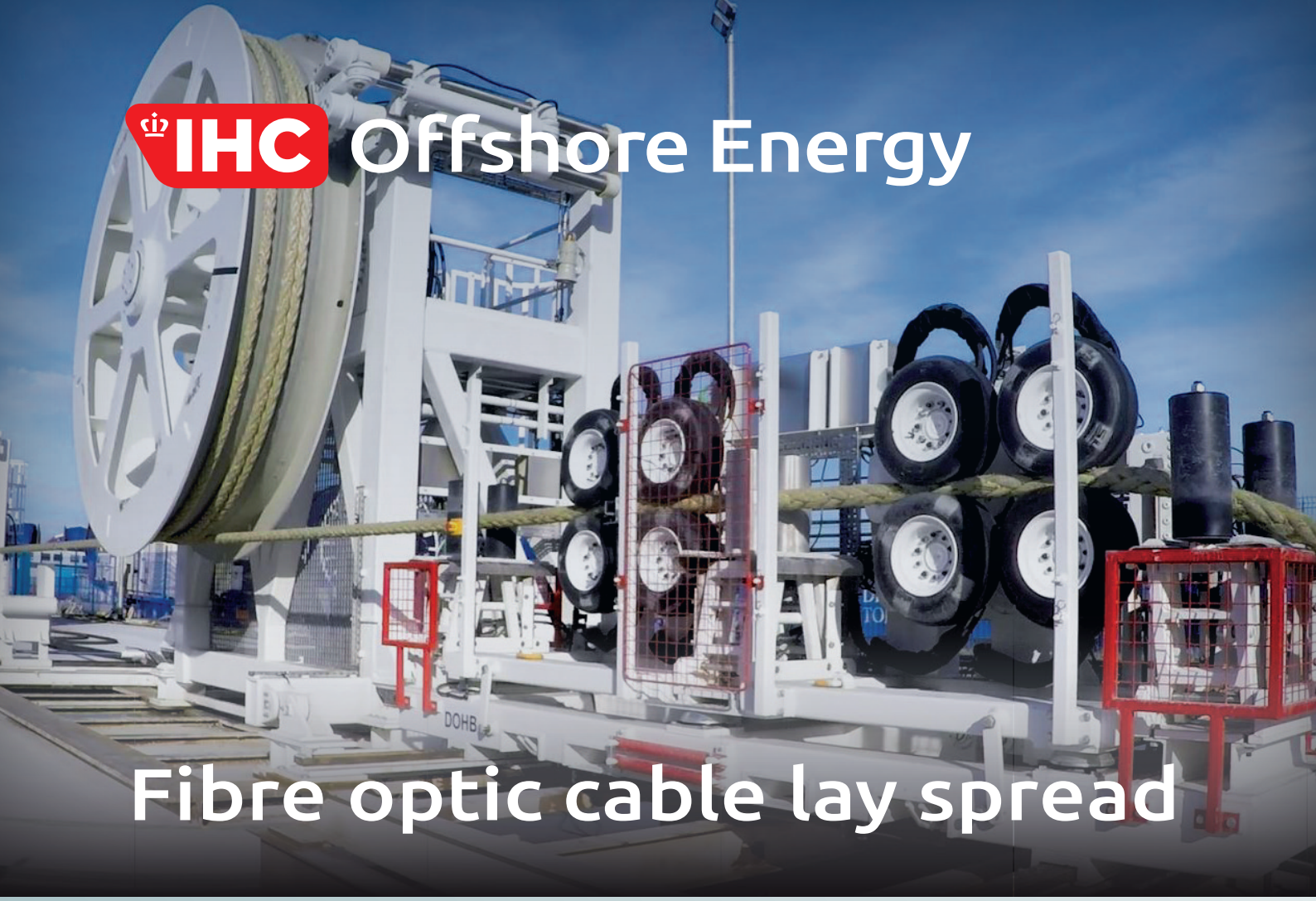
IHC Offshore Energy



Fibre optic cable lay spread

Equipment to suit every project

Royal IHC's portfolio of fibre optic cable lay equipment is designed for a range of projects, from long transoceanic installations to deep water repair and maintenance operations.

Modularity and automation

Based on field-proven designs, Royal IHC's fibre optic cable lay equipment is simple, reliable, and easy to use. The equipment can be interfaced with different vessel types, from modular mobilisations on vessels of opportunity to fully-integrated fibre optic cable lay vessels.

A range of automation options are also available, including a simple data link to the vessel to feedback real-time parameters, and linking with vessel DP systems for automatic cable lay operations.

Advantages

- Field-proven with industry leaders.
- Simple designs for easy operation and maintenance.
- Remote diagnostic options for rapid responses.
- Flexibility to suit a range of vessel configurations.
- Accurate tension control across the system.
- Accurate load measurement via pitch compensated load cells.
- Automation options for ease of use.
- Options available for energy regeneration.

linear cable engine

Simple, modular designs for maximum flexibility and minimum maintenance

Equipment list

Our fibre optic cable lay spreads are designed to suit client-specific requirements, with systems developed from the following standard components:

- Cable drum engine
- Hydraulic power unit (for the cable drum engine)
- Cable diverter
- Draw off hold back unit
- Linear cable engine
- Stonker
- Control hardware and chairs
- Drive suite (to power and control all drive motors)
- 2 wheel pair transporter

Any of the equipment above can be replaced by owner furnished equipment and be used in a complete integrated system.

Flexiblity built-in

Optional drive and control containers allow the equipment to operate on a stand alone basis, with minimum interfacing from the host vessel.

Our linear cable engines are built from standard modules, each with its own drive panel, to offer simple reconfiguration to suit different project requirements.

Complete mission equipment package

Royal IHC's cable lay equipment can be provided as part of a complete mission equipment package to include our Sea Stallion FibrePro and Fibre Pro Max ploughs, LARS, and tow winch if required.

Sea Stallion FibrePro

Lifetime support

Royal IHC mission critical equipment is designed for ease of maintenance in mind. There is a high degree of commonality between components, and remote diagnostic capabilities are offered as standard.

Field support for equipment is available via our network of global service centres.

Typical specifications	Cable drum engine	Linear cable engine (20 wheel pair)
Dimensions		
Product width	4 m (minimum)	-
Product line height	1,200 mm ±50 mm	1,200 mm
Cable diameter	Ø14 - 45.5 mm	Ø14 - 45.5 mm
Repeater diameter (body)	Ø350 - 2,000 mm	Ø350 - 2,000 mm
Top / Bottom loading	Top loading	-
Maximum speed	8 knots	8 knots
Maximum operating line load	40 t	20 t
Performance		
Maximum static tension	40 t	
Pay in and pay out	30 t up to 1 knot 3.5 t up to 8 knots	20 t up to 4 knots 10 t up to 8 knots
Operating modes	Speed control (manual) Render Constant tension	Speed control (manual) Render Constant tension
Parking brake	Fail-safe type	Fail-safe type
Power supply	440 V, 3-phase, 6 Hz	440 V, 3-phase, 6 Hz
Load measurement	Yes	Yes
Speed measurement	Encoders mounted to all drive motors	Encoders mounted to all drive motors, with independent encoder mounted to single cable guide

Royal IHC

Creating the maritime future

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