

Cable & Pipe Lay Solutions

Rental and new-build services for the global subsea pipe and cable laying industries

Our Cable & Pipe Lay Solutions (CPLS) division is one of the industry's most knowledgeable and trusted suppliers of hydraulic and electric cable and pipe lay equipment. Our range of products are used for handling subsea umbilicals, risers and flowlines (SURF), fibre optic and subsea power cables.

With full technical support, both operating the equipment on-site and onshore, our customers can be assured of the right expertise and advice throughout the whole project.



DELIVERY ASSURED



Our rental solutions team provide:

- 2-track tensioners 3Te to 15Te
- 4-track tensioners 30Te to 65Te
- Bow cable engines
- Multi reel drive systems

Markets

- Subsea umbilical risers and flowlines (SURF)
- Downlines and pre-commissioning flexible pipe
- Rigid pipe (CT modes available)
- Zaplock pipe
- Fibre optic cables
- Decommissioning

Offshore wind

- Export cables – shore approaches
- Export cables to substations
- Inter-array cables

Rental solutions

As the Original Equipment Manufacturer (OEM) of all of our rental equipment we offer safe, reliable and sophisticated product handling equipment.

From our global bases we can provide local support at short notice.

We are one of the leading providers of bespoke rental lay equipment and can quickly modify equipment to suit your requirements.

Refurbishment and upgrade solutions

Our facilities in Aberdeen (UK), Slidell, (USA), Singapore and Abu Dhabi (UAE) can offer the following refurbishment services:

- Equipment inspection – condition evaluations with reported findings
 - Strip down, overhaul and painting
 - Pump, motor and gearbox refurbishment and testing
 - Hydraulic component and hose replacement
 - Electrical component and cabling replacement
 - Non-Destructive Testing (NDT) and Load Testing
 - Full system function test and load test post refurbishment

Upgrade services available:

- Structural capability analysis
- Mechanical capability analysis
- Structural, mechanical, hydraulic and electrical upgrade
- Control system upgrades

Equipment sales solutions

We provide design and manufacturing services for a wide range of handling systems with both onshore and offshore applications. Our global locations mean that manufacturing of the equipment can be completed worldwide.

As well as our catalogue of existing designs, we offer a bespoke design and build service that delivers equipment to meet the needs of our clients.

We offer a diverse range of ancillary equipment to complement other products and systems:

- Lay chutes
- Compensators
- Deck deflectors
- Roller paths
- Overboarding systems
- Hydraulic power units
- Electrical power units

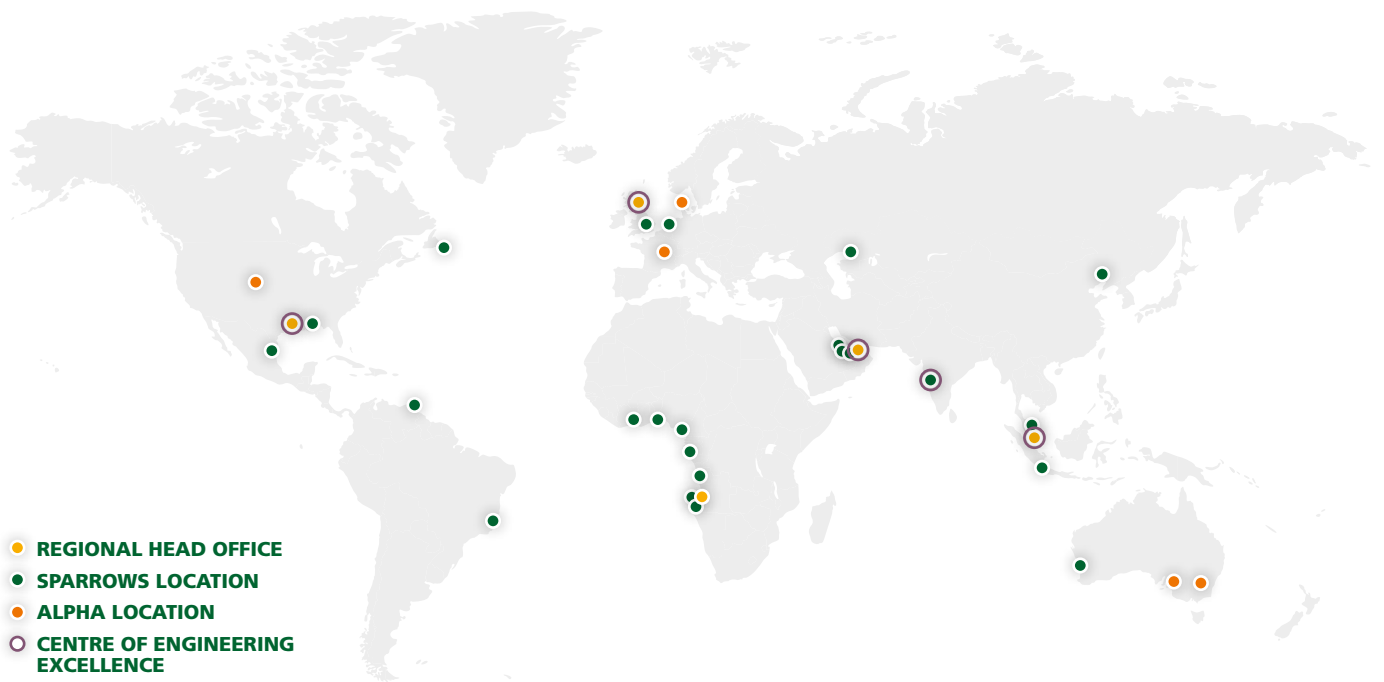


Engineering solutions

- Finite Element Analysis (FEA), structural, mechanical, hydraulic design of any handling equipment such as carousels, loading towers, deployment systems, roller high ways, chutes etc.
- Hydraulic machinery
- Mechanical clamps
- Sea fastening and underdeck strengthening
- Deck layout studies
- Orcaflex analysis
- Failure mode, effects and criticality analysis (FMECA)
- Late life analysis, life extension studies
- Lay procedures development
- Lifting studies, mechanical handling
- Front End Engineering Design (FEED) and conceptual studies
- Project management
- Equipment audits and inspections

Equipment	Range	Drive	Specifications
Tensioner systems	1Te to 100Te	Electric or hydraulic	2-track, 3-track or 4-track machines, all designed with failsafe grip application and redundancy built in. Sophisticated Programmable Logic Controller (PLC) based control systems with intuitive operator controls and system monitoring.
Carousel systems	No limitation on size	Air skate, hydraulic or electric drives	Designs suitable for cable, umbilical, fibre optic cable and flowlines. Basket or bobbin types available and loading towers and goosenecks can be supplied as stand alone or required.
Underroller systems	100Te to 500Te and above	Hydraulic or electrical	Designs suitable for reels up to 14m. Jackable, traversing or static systems available. Hold down devices for offshore or light reel use. Dynamometers available as option.
Reel drive system	100Te to 800Te	Hydraulic or electrical	Designs suitable for small and large reels. Ideal for use for mooring rope deployment, anchor chain deployment, flex lay applications.
Reels / modular reels	Any size and storage capacity		Modular designs for low cost transportation in standard container sizes. Lifting spreader bar, saddles, auxiliary equipment also available. Coflexip style reels or standard reels, compartments / dividers, quick and easy to assemble.
Bespoke reelers		Electric drive and controls fully integrated into vessel bridge	Fixed installation reels for flexible products including flexible pipe.
Cable transfer systems			Transfer cables in and out of static baskets or carousels with our bow cable engine system.

Local knowledge, global network



INTEGRATED SOLUTIONS

- Crane and lifting services management
- Deck operations management
- Reliability centred maintenance
- Mechanical handling
- Equipment upgrade
- Fault finding and repair
- Hydraulic system management

CAPABILITIES / SERVICES

- Multi-discipline engineering / design
- Crane operations
- Rigging / lifting
- Maintenance / servicing / refurbishment
- Inspection / testing / rope access
- Fluid power / hydraulics
- Site surveys
- Training / coaching

EQUIPMENT SALE AND RENTAL

- Cranes
- Crane technology
- Cable / pipe handling systems
- Fluid power / hydraulic systems
- Rigging / lifting equipment
- Mechanical handling equipment
- Spare parts / components
- Access systems

Please visit www.sparrowsgroup.com/contact to find your nearest office

