



# High Capacity Electric Reelers

Design and Manufacture



unique DESIGN ... enhancing operations and reliability





# High Capacity Electric Reelers

design and manufacture



Reliability analysis of the electric-reel system has shown that the simplification of the design will enhance operations and reliability, ... reduced spares ultimately means reduced maintenance requirements and lower downtime.

From parallel introduction of this drive type to other offshore applications (wireline units in Norway) these benefits are realized. We have found that the majority of reeler problems in the field are due to the lack of maintenance and/or operator error, both of these areas are improved with the HCS electric-reel design.



## design and manufacture of high capacity electric reelers, rated for Zone 1 hazardous area operations

Overall, all the e-reeler control enhancements are about protecting the umbilical at all times, using the electronic PLC controllers ability to react instantaneously to control the loads seen by the umbilical to within the safe working tolerances, and automatically logging and storing the run history and loadings seen by the umbilical during its life.

Clearly this knowledge can only benefit the integrity of any operation, especially during deepwater operations where the umbilical failure due to overstressing or to previously undocumented excessive loads can lead to substantial operational delays.

**Some of the benefits of our electric-reeler over the conventional pneumatic / hydraulic systems are:**

- Reduced maintenance
- Increased control capabilities / options
- Negate temp issues (pneumatics freezing / oil viscosity)
- Only electric utility service required
- More consistent performance (speed etc)
- Ease of fault-finding / diagnostics
- Increased datalogging capabilities
- Reduced spares inventory required
- Ability to integrate with umbilical tension sensing



**Aberdeen / UK:** HCS Control Systems Ltd  
Tel: +44 (0)1224 937 560

**Glenrothes / UK:** HCS Control Systems Ltd  
Tel: +44 (0)1592 770 786

**Texas / USA:** HCS Subsea Services LLC  
Tel: +(1) 713 468 5325