

Pipelay Vessel Reel Winch

SH5 Caliper Brake

PROBLEM

A global leader in the energy industry needed a replacement caliper braking solution for a cable reel winch on its pipelay vessel. With a normal operating dynamic top tension of 450 tons, the DP class 3 vessel is designed to handle subsea installation of reeled rigid pipe of up to 18" diameter. The subsea pipes connect offshore oil and gas wells and wind turbines to onshore pipelines and power grids.

The ship is also capable of installing flexible products, umbilicals, steel tube umbilicals and a variety of mid-line and end structures. Installed on one of the vessel's large diameter cable reel winches, the brake provides emergency stopping and holding of the reel in the case of a power failure.

SOLUTION

Stromag was selected to provide a reliable hydraulic caliper disc brake to meet the winch's emergency and safety braking requirements. The Model SH5 spring actuated, hydraulically-released brake supplied provides 51,300 N of braking force. The unit features an offshore protection package, lining wear indicators and opening proving switches. All SH Series brakes have DNV, ABS and Lloyd's Register type approval certificates for oil and gas applications.



HIGHLIGHTS

- Model SH5 spring actuated, hydraulically-released caliper disc brakes
- Emergency, safety braking functionality
- 51,300 N of braking force
- Offshore protection
- Type approval certificates: DNV, ABS and Lloyd's Register

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