Mechanical Solutions

Case study: Spooling

Location: Americas

Challenge

Ashtead Technology was awarded the spooling of two reels at 3800 meters of 100mm diameter wire rope, with each reel weighing 208 tonnes. This task was to be completed on a 250-tonne MacGregor Knuckle Boom Crane.

The project also involved the removal and re-installation of wire ropes on two cranes, with a key challenge of maintaining back tension in the range of 30 tonnes throughout the installation process. This required precise management of tension across all layers of the wire rope, including data logging during installation.

Solution

To manage the large-scale spooling operation, we utilised our **250 Tonne Safe Working Load Hydraulic Spooling Winch.**

To ensure proper back tension across the wire rope, a **60 tonne Traction Capstan Winch** was incorporated to provide the necessary 30 tonne back tension across all layers of the wire rope during installation.

The project was supported by three highly skilled technicians for full project delivery.

Results and Impact

- Our solution enabled the seamless installation of the wire rope on both cranes
- The precise management of back tension helped prevent any future damage to the wire rope
- We demonstrated our spooling expertise and ability to handle large-scale installations

Visit our **website** to view our full range of Spooling and Traction Winches