

Yunlin Offshore Wind Farm Project

KimLift® Synthetic Round Slings

DATE

June 2022

BACKGROUND

Future Synthetics (Middle East) FZC won a contract to design and manufacture a total of 30 heavy lift, synthetic round slings. The slings were used for installing monopiles for the Yunlin Offshore Wind Farm, located in the Taiwan Straits.

The monopiles were installed in water depths from 9m to 38m. Due to the size of the wind turbines to be installed, the monopiles were huge with some having diameters of 10m, lengths from 60m to 98m and unit weights of up to 2 metric tons. Several of these monopiles were the heaviest ever to be used offshore.

The slings were made to strict length tolerances, quality control and engineering verification. The core load bearing component used in the slings was *FutureSteel*® HMPE yarn, produced at Future Synthetics using high speed twisters.

All slings were made with our trademark *Engineered Length Control*® for strict length compliance. Proof load testing was conducted on our *KimTest 3000t* horizontal test bed in Malaysia – one of the largest in the industry.



Yunlin OWF Project, Taiwan KimLift® Synthetic Round Slings

Pioneering the Future of Heavy Lifting!



SCOPE OF SUPPLY:

4x KimLift® synthetic round slings KLX-524; MBL 2,621 MT (adjusted for bending diameter) and nominal effective working length 11.50 meters.

4x KimLift® synthetic round slings KLX-531; MBL 2,611 MT (adjusted for bending diameter) and nominal effective working length 41.75 meters.

8x KimLift® synthetic round slings KLX-783; MBL 3,916 MT (adjusted for bending diameter) and nominal effective working length 37.55 meters.

4x KimLift® synthetic round slings KLX-639; MBL 3,009 MT (adjusted for bending diameter) and nominal effective working length 3.05 meters.

4x KimLift® synthetic round slings KLX-1167; MBL 5,564 MT (adjusted for bending diameter) and nominal effective working length 3.05 meters.

4x KimLift® synthetic round slings KLX-1167; MBL 5,564 MT (adjusted for bending diameter) and nominal effective working length 4.57 meters.

2x KimLift® synthetic round slings KLX-1167; MBL 5,564 MT (adjusted for bending diameter) and nominal effective working length 6.40 meters.

Designed, manufactured and tested in Malaysia by Future Synthetics (Malaysia) Sdn Bhd to DNVGL-ST-N001. Witnessed and certified by DNVGL.



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