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A mobile winch at a height of 100 m: A Huchez innovation

To move the hull of ships in a shipyard in Nigerian harbor, a crane with imposing proportions – 100 meters high and 50 ton capacity – is at work every day.

One problem: how to lift the spare parts used from time to time for the maintenance of the crane to warranty its good and safe functioning. **With this height of 100 meters, the use of a hoist is not possible. Another solution had to be found.**

An equipment to lift the load, but also to translate it 100 meters up had to be designed! A new challenge faced by the engineering department of the French manufacturer HUCHEZ.

A Huchez performance

The solution: to make the winch mobile. To limit the height of the grip and balance the system, an electrical trolley has directly been integrated to an INDUSTRIA multilayer electric winch. Installed onto a jib crane, itself also installed on the crane, the winch is moving along the jib crane. The lifting and translating of the load can be done and the maintenance of the crane is made in the best conditions.

Huchez engineer's team has worked on each and every step of the project : specifications study, technical analysis of feasibility, advise, design of the preliminary project, manufacturing, set up, tests, technical assistance....

Technical characteristics

Multilayer drum electric winch INDUSTRIA with integrated trolley

- Capacity: 3000 kg at the top layer,
- Adjustable speed at the top layer: from 0.6 to 6 m/min,
- Useful capacity: 120 m at the third layer including 33 m at the first layer,
- FEM / ISO classification: 1Am / M4,
- Three-phase motor : 4 kW, IP 55 protection class F.

Specially adapted with

- Coaxial reducer,
- System of tray and counterweight to balance the winch with no load,
- Corrosion protection for the motor brake, IP 65, surface protection for a very aggressive environment of the motor,
- Interface Chassis between winch / trolley,
- C5Ma ANV painting system with certificate.

This equipment will be installed in February 2016 on the shipyard, after the required 5 month from the design and manufacture phases up to the tests phases.

Performance and innovation already promising new projects. HUCHEZ received enquiries for several similar requests when a hoist was not an option for use at very great heights in the industry sector, construction or to equip scientific mission ship to lower and raise diving equipment or launch probes into the open sea ...

About HUCHEZ

Every year, HUCHEZ designs, manufactures and sells over 5000 lifting machines for the professional market, positioning itself as the leading manufacturer of a wide range of manual and electric winches, tailor-made to meet customer requirements in all industrial sectors (manufacturing, constructions & public works and private contractors) and highly valued for their quality, sturdiness and reliability,

HUCHEZ has resolutely pursued a product innovation policy for which it was awarded the 2013 Innovation Trophy for the Picardie Region by the French Patents and Trademarks Institute (INPI). Huchez Engineering Department has contributed its expertise in developing custom-made solutions for complex projects.

The Company has a turnover of €7.6 million (2014 turnover) and employs approximately fifty persons. Foreign sales account for 35% of its sales turnover.

For more information, please contact us:

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Photos HUCHEZ



HUCHEZ winch during the tests phases



HUCHEZ winch in the workshop during its installation on the jib crane

Appendix: INDUSTRIA – commercial brochure