



LONDON BRIDGE BEST PRACTICE



Niftylift Hybrid MEWP

Overview

For the London Bridge Redevelopment Project to continue to meet its carbon targets and reduce its impact upon the environment; sourcing energy efficient and emission reducing machinery is key.

Across the project we have lots of works which involve working at height. For this work to be carried out safely, we often use Cherry Pickers, so our site workers are situated in a secure infrastructure whilst carrying out their role. The project has chosen the Niftylift Cherry Picker HR 17 Hybrid (17m) for the London Bridge site.

Niftylift

Niftylift were awarded the winners of the Queen’s Award for Enterprise- Innovation 2013 for their excellence in producing a hybrid cherry picker. Its compact, low-weight design differs to the previous HR 17 4x4 model. The new hybrid model comes in at a weight of 4750 kg in comparison to the older model with the weight 4950 kg. With a smaller diesel engine (Kubota 722-18 Hp) and an exhaust purification system that reduces carbon monoxide (90%), hydrocarbons (80%), particulates (30%) and noise emissions; the advantages of this new model are clear.

The largest difference between the two models is the term “hybrid”. Regardless that both models have Tier IV non-road vehicle engines, therefore complying with EU requirements of more than a 95% reduction in tailpipe emissions, the new HR 17 model prides itself on being more environmentally conscious. It has a battery and diesel powered engine that can additionally be assisted by an electric motor when required. When the fuel type switches from diesel to electric, this MEWP becomes a zero emissions machine.



Additional Features:

- Rotating platform to allow flexible positioning
- ToughCage and SiOPS to improve safety and maximise strength
- Tier IV engine
- 150 degree flyboom

Benefits:

- Reduced fuel consumption by 50%
- Reduced running costs
- Reduced emissions output
- Advantageous in reducing Costain’s Carbon Footprint

Objectives and Targets:

- CEEQUAL – energy;
- London Bridge Sustainable Delivery Statement – carbon; energy
- London Bridge Targets and Objectives – undertake a carbon and energy demand assessment for each project and to set and implement targets for reduction