

Job Report

HS 8130 HD, HS 885 HD and HS 883 HD



LIEBHERR



Situation

Almost 7000 inhabitants per square kilometre: thereby Hong Kong belongs to the most densely populated areas in the world. This fact underlines how important it is for the metropolis to create sufficient living space. A new residential

complex is currently being built in the region Kowloon. Between October 2016 and June 2018 Kin Wing Engineering Co. Ltd., founded in 1994, carried out the deep foundation work using seven Liebherr duty cycle crawler cranes.

Task

Large parts of the built-up areas in Hong Kong have been erected on reclaimed land, especially in Victoria Harbour and the New Territories. Thus, there is a lot of groundwater and the building foundations are especially important. Kin Wing installed a total of 48 piles using two HS 8130 HD, four HS 885 HD and one HS 883 HD. Due to the difficult soil

conditions, a pile diameter of 3 m was necessary. Kin Wing used a casing oscillator and a mechanical spherical grab down to a hard rock layer with a very high strength of 150 MPa at a depth of approximately 40 m. The deep foundation specialists applied the reverse circulation drilling method for further 40 m.

Advantages

The newest Liebherr machine used by Kin Wing on the construction site was the HS 8130 HD. Machine operator Lam Siu Tin is greatly impressed with it, "I can work really quickly with the duty cycle crawler crane!" Despite the high

winch speeds the HS remains stable to handle. In addition to material handling with grab or dragline bucket, the duty cycle crawler crane can be used for dynamic soil compaction, vibration or piling work as well as lifting jobs.

Technical data: HS 8130 HD

Max. capacity:	130 t
Engine power:	505 kW
Max. winch line pull:	2 × 350 kN

Max. boom length:	53 m
Operating weight:	116 t