

Infrastructure Project at the Suez Canal with Duty Cycle Crawler Cranes and Crawler Cranes from Liebherr

- A total of ten Liebherr machines are involved in a large-scale infrastructure project at the Suez Canal in Egypt.
- The main task is the erection of slurry walls with an area of 520,000 m²
- A duty cycle crawler crane from the newest generation, type HS 8100 HD equipped with a hydraulic slurry wall grab, is being used.

Nenzing (Austria), February 2017 - a total of ten Liebherr duty cycle crawler cranes and crawler cranes are currently in operation at the Suez Canal as part of a multibillion project. A HS 8100 HD duty cycle crawler crane of the newest generation belonging to the German company Züblin is among the machines deployed to assist in the construction of two road tunnels under the Suez Canal near the city of Port Said in North Egypt.

On behalf of the Egyptian armed forces two work groups are erecting slurry walls with a total area of 520,000 m². Züblin AG and Orasom Construction form one group and Trevi S.p.A. forms the second group together with an Egyptian construction company. The slurry walls are situated to both the east and the west of the Suez Canal for access roads as well as shafts for subsequent tunnel excavations.

The slurry walls are approximately 1.2 metres wide and between 20 and 70 metres deep. The soil consists of approximately 80% clay and only the last 5 to 6 m are sand. The work on the slurry walls started in September 2015 and, according to actual information, should be completed by summer 2017.

Fleet of Liebherr Machines

The companies involved in the construction work are using no less than nine duty cycle crawler cranes and one crawler crane from Liebherr. These include four HS 885 HD, two HS 875 HD, one HS 855 HD, one HS 845 HD and one crawler crane type LR 1160. Additionally Züblin is deploying a HS 8100 HD and, therefore, a duty cycle

crawler crane of the newest generation. It is equipped with a hydraulic slurry wall grab from Leffer.

The HS 8100 HD is successor to the HS 855 HD, the most popular model of the Liebherr series of duty cycle crawler cranes. It is installed with a 390 kW/530 hp Liebherr diesel motor. The duty cycle crawler crane impresses, on the one hand, due to its excellent level of working safety thanks to additional walkways and ladders, and on the other hand, due to its optimized hydraulics and the Eco-Silent Mode, which has an extraordinary efficiency under tough jobsite conditions. With the aid of the Eco-Silent Mode, the speed of the motor can be reduced to a required predefined level. This leads to a considerable reduction in the fuel consumption, and at the same time, a reduction in noise emission.

During operation with the hydraulic slurry wall grab from Leffer, the HS 8100 HD requires a mere 16 litres of diesel per hour. Furthermore, using the hydraulic slurry wall grab, the work can be carried out more precisely over the whole depth than with a mechanical slurry wall grab.

Multibillion Project at the Suez Canal

The construction of the tunnels is part of an Egyptian infrastructure project with immense dimensions. New tunnels are not only being built at Port Said but also further south at Ismailia. The project also includes the widening and deepening of the existing shipping lane of the canal, as well as the construction of a completely new lane with a length of approximately 35 kilometres in the northern section. The total investment volume amounts to approximately 4 billion US dollars.

Film

The film offers impressions on the duty cycle crawler crane HS 8100 HD in slurry wall grab operation at the Suez Canal in Egypt: <https://youtu.be/hPIHBTck7iw>

Captions

liebherr-hs8100hd-suez-canal-egypt.jpg

The HS 8100 HD is currently one of ten crawler cranes from Liebherr at the Suez Canal site.

liebherr-hs8100hd-suez-canal-egypt2.jpg

A duty cycle crawler crane, type HS 8100 HD, carrying out slurry wall work at the Suez Canal near the Egyptian town of Port Said.

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