



Eight in One Go: Liebherr Entourage in Moscow

- Seven duty cycle crawler cranes as well as one piling and drilling rig in operation
- Installation of slurry walls and barrette piles for a new bus terminal in glass design

Nenzing (Austria) 4 April 2018 – An urban construction project is currently being executed in Moscow: an ultra-modern bus terminal with a capacity of 15,000 passengers per day. The contractor Fensma is relying on Liebherr in two respects during the deep foundation phase.

Red Square: The stage of Russian history and pulsating centre of Moscow. Only forty minutes away, a new bus terminal is being developed on the Sholkovskoye Chaussee. Eleven stories of modern glass design. An attractive selection of shopping and entertainment facilities is elegantly combined with the bus terminal in an architectural complex. Approximately 1,600 bus services are expected daily. 15,000 passengers per day and at peak times 1,000 passengers per hour. This underlines the importance of a good public transport infrastructure in the Russian metropolis. Designed by the architect Werner Sobek, the contractor Fensma is executing the project with Liebherr equipment.

Deep foundation work for the new building is being carried out by a fleet of eight Liebherr machines including seven duty cycle crawler cranes with lifting capacities between 70 and 120 t, and one piling and drilling rig type LRB 255. Cast-in-place slurry walls with a total of 310,000 m² and 3,500 t of reinforcement cages are being installed as a lining wall for the foundation pit. For this purpose two carrier machines are fitted with hydraulic grabs and four with mechanical grabs. These are applied as necessary and are interchanged between the duty cycle crawler cranes. The slurry wall has a maximum depth of 52 m and is 800 mm thick. Eighteen hours are required for the excavation of one bite with a length of 2,800 mm. A delivery pipe is used for filling the concrete. In addition to the slurry wall the deep foundation fleet from Liebherr is inserting 154 individual barrette piles for foundations. One barrette has a depth of 52 m and a volume of 110 m³ concrete. A total of 800 t steel is being installed.

Quick and High Quality: "And Liebherr is Helping us"

After a construction period of only 2 years, the new complex is due to be completed in

2019. The local contractor Fensma is not only confronted with this time constraint, but

also difficult soil conditions: loam, sand, clay and groundwater. Under these conditions

it is a particular challenge to achieve the necessary verticality of the slurry wall.

However, Fensma specializes in the realization of urban building projects and is relying

on the quality and service of Liebherr construction machinery and customer service

during the execution in two respects. "We build quickly and in high quality. And

Liebherr is helping us!" explains Sergey S. Dyachkov, CEO of Fensma. Efficiency and

economy both play an important role. A diesel consumption of only 23 I per hour for the

HS 8100 HD, the newest machine in the fleet used by Fensma, is a clear statement.

The costs for the modern glass complex amount to 73 million euros (5 milliard roubles).

One fifth of these costs are attributed to the deep foundation work.

Film

The short film shows the eight Liebherr machines operating in Moscow:

https://www.youtube.com/watch?v=Zwk6ljTQo2Y&feature=youtu.be

Captions

liebherr-hs-lrb255-moskau.jpg

Seven duty cycle crawler cranes & one piling and drilling rig LRB 255: the contractor

Fensma is relying on Liebherr during the execution of the project.

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