

Derrick 200 DR 5/10 Litronic

Job-Report

High above the rooftops of Canada



LIEBHERR

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Liebherr Derrick 200 DR 5/10 Litronic dismantling crane masters its task reliably.

The Liebherr Derrick 200 DR 5/10 Litronic carried out a job at an extreme altitude on the roof of the newly built Courtyard Marriot Hotel in Montreal, Canada.



The derrick crane was ideal for the very restricted space available on the roof of the hotel: reliable and safe dismantling of the Liebherr 355 HC-L 12/24 Litronic luffing jib crane.

The 355 HC-L involved in the construction of the hotel's 42 storeys climbed with the 500 HC tower system in the building to a final hook height of over 130 m. The 355 HC-L 12/24 Litronic demonstrated its capacity in daily operation. The project manager of Les Constructions L.J.P. inc did not only praise the capacity of the crane but also the high hook speed particularly in 1-fall operation.

After completing the hoisting work, the rigging team dismantled the 355 HC-L within only four days from the roof of the Courtyard Marriot Hotel using the derrick crane. In contrast to conducting dismantling work from the ground, this job did not require any major roadblocks which would have adversely affected the other construction work. The simple logistics and good integration of the derrick into the normal construction progress convinced the project management. Another advantage was the radius of up to 25 m. Heavy components of the luffing jib crane could be lowered at an adequate distance from the building.

After dismantling the luffing jib crane, the derrick crane was used for a further two months on the hotel roof to help with the roofing work.

Due to its low package weights and compact dimensions, the 200 DR 5/10 Litronic derrick crane could be lowered to the ground without any problems using a load elevator after completion of its tasks.



Adaptable universal machine

The 200 DR 5/10 derrick crane can also dismantle tower cranes with very high load capacities without any problems as long as the maximum dismantling weight of 10 t is not exceeded. Optimised for use on very restricted space, the crane is convincing due to the very little space required. Another advantage are the flexibly adaptable supports which can be swivelled and thus optimally adjusted to the static situation of the building. Optionally available stiff legs increase the load moment and thus the lifting capacity. To complete the scope of a universal crane, the special crane can also be used as construction crane.

Safety controller

When using the crane on buildings which are several hundred metres high, safety is particularly important. The safety PLC controller of the Liebherr derrick 200 DR 5/10 monitors all the movements with the time-tested functions of Liebherr luffing jib cranes. Sensors monitor the hoist height, load moment, jib angle and slewing gear and keep them to safe levels. The remote control enables the crane driver to operate the machine from the best possible location.

Practical self-disassembly in a short time

After the luffing jib crane had been completely dismantled and lowered, the derrick crane can be split into individual components. The components have maximum dimensions of 2.20 m x 1.10 m x 1.10 m and do not weigh more than 1,000 kg.

Technical Data

Maximum radius	25.0 m
Lifting capacity at maximum radius	7,500 kg
Maximum lifting capacity	10,000 kg
Luffing gear	37.0 kW FC
Hoist gear	45.0 kW FC

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