LiUP

Crane driver elevator

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LIEBHERR

Maritime cranes

We lift you up

The inhouse developed Liebherr crane driver elevator LiUP is designed to transport the operator in a safe and efficient way to his workplace. The LiUP saves the drivers energy and time compared to climbing up several stairs. Service engineers also save themselves the trouble of climbing up stairs to the crane cab to carry out maintenance work. The lift is capable of transporting up to two people or a payload of 200 kg.

The LiUP elevator has already been deployed successfully for a number of years with Liebherr tower cranes and has also been awarded the golden innovation prize at the Intermat 2015 in the “Equipment & Components” category. The device features an innovative drive technology powered by an electric motor with lithium-ion battery. This has the great advantage that no disturbing cables are necessary. When the lift is lowered, the drive concept is also able to recover up to 40 % of energy.

Multiple safety features

The LiUP has several features to protect the safety of crane operators and service engineers.
- The stopping positions are monitored by three limit switches, whilst a clasp brake reacts if the elevator starts to travel too fast
- Inductive sensors check whether a guide rail is installed
- Detection of people and therefore prevention of the risk of crush injuries by the redundant sensor system
- Autarchic power supply in the event of a power failure (for example to rescue a crane driver)

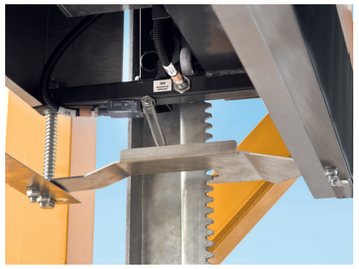
Innovative drive system

The LiUP has innovative drive technology with no bothersome ropes and cables.
- Powered by an electric motor with lithium-ion battery
- Approx. 40 % energy recovery as the elevator descends
- Autarchic power supply in the event of a power failure by the lithium-ion battery drive technology
- The battery is automatically charged when the elevator is in its parked position
- No additional supply lines such as cables or ropes

Technical data

Payload	200 kg (2 people or 1 person with tools)
Speed	up to 25 m/min
Loading process	30 – 60 minutes
Travel height on one battery charge	400 m

Access secured by a limit switch



Protection device with sensors

The central limit switch cuts out only in an emergency

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