



The LEITNER Overhead Drive

Compact design, clearly placed

All of the LEITNER overhead drive's braking and drive system components are clearly arranged on a sliding drive frame, where they are easy to service.

The drive system consists of an electric motor, four-stage planetary gearing, two braking systems and a diesel-hydraulic emergency drive. The electric motor can be either AC or DC. Two motors can also be arranged in series to achieve greater power; in an enhanced version, these can be operated separately to increase system availability (single-motor operation). The braking system consists of a service and a safety brake. The electromagnetic service brake acts on a flywheel on the transmission input side, whereas the hydraulic safety brake acts directly on the drive sheave for optimum safety. The drive sheave is connected to the output shaft by means of a quick-release radial tooth coupling and can be disconnected from the drive chain in a few easy steps.

Two independently acting braking systems working on different operating principles guarantee maximum safety and system availability.

The four-stage planetary gearing requires little maintenance and, with an efficiency of 95%, causes very little power loss. The overhead drive's frame is movable and can quickly and easily compensate for stretching of the hauling rope.

TECHNICAL SPECIFICATIONS

Drive motor	AC and DC options, up to two motors in series
Service brake	Electromagnetic, acting on flywheel Max. two brake calipers per flywheel
Safety brake	Hydraulic, acting on drive sheave, max. three brake calipers
Gearing	Four-stage planetary gearing, max. torque 440 kNm
Ø drive sheave	4.20 m to 5.30 m (five-part)
Maximum rope tension at top station	Up to 1,600 kN (sum of all ropes)
Emergency drive	Diesel-hydraulic, driven via pinion and sprocket on the drive sheave