



The LEITNER Overhead Drive

Compact design, clear arrangement

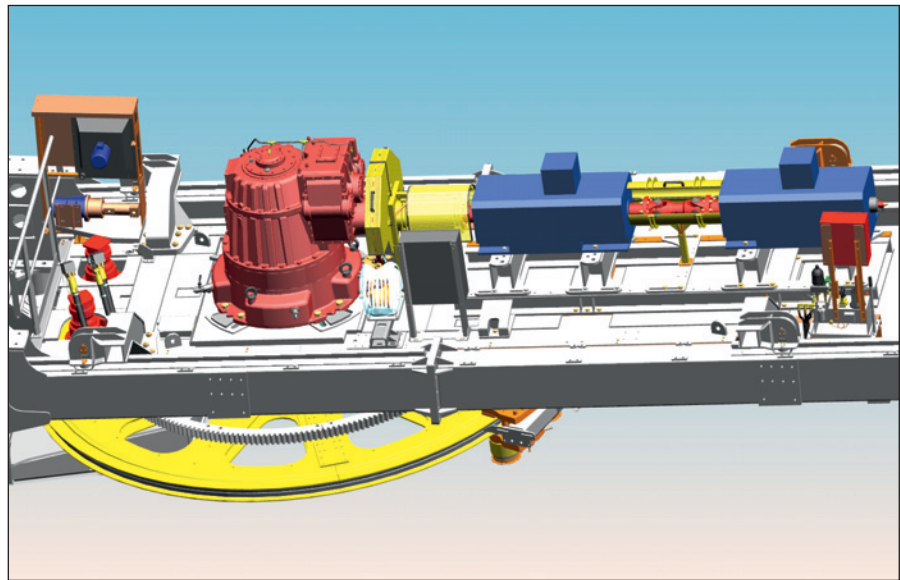
Basis For the LEITNER overhead drive, all components of the drive and braking system are set up on a movable drive frame – clearly arranged and easily accessible for maintenance.

Description The drive system consists of an electric motor, a 4-step planetary gearbox, two braking systems and a diesel-hydraulic emergency drive system.

The electric motor can be either an AC or DC drive. At higher drive power, two motors can be connected in series. In order to increase the availability of the installation, an enhanced version allows the separate operation of two motors (one-motor operation).

The braking system comprises a service and a safety brake. While the electromagnetic service brake acts on a flywheel fixed on the transmission input shaft, the hydraulic safety brake acts directly on the drive sheave, which is the best solution in terms of safety.

The drive sheave is connected with the transmission output shaft by means of a quick-release radial tooth coupling and can be easily disconnected from the drive chain in a few easy steps.



Benefits Two independently acting braking systems with two different mechanisms ensure **maximum safety** and **availability** of the installation.

The 4-step planetary gearbox impresses with its low maintenance requirements and ensures **low power losses** with an **efficiency of 95 %**.

The drive frame of the overhead drive is movable and can **easily compensate for possible elongations** of the **carrying-hauling rope** – quickly and with little effort.

Technical data

Drive motor	AC or DC, up to two motors in series
Service brake	Electromagnetic, acting on flywheel 2 callipers max. per flywheel
Safety brake	Hydraulic, acting on drive sheave 3 callipers max.
Gearbox	4-step planetary gearbox, max. drive torque of 460 kNm
Drive sheave Ø	4.20m (one part); 4.90m (two parts); 5.30m (two parts)
Max. rope tension at top station	Up to 900 kN
Emergency drive system	Diesel-hydraulic, sheave driven via pinion and sprocket