

The LEITNER Underground Drive

For maximum power

Basis	For the LEITNER underground drive, the electric motor, gearbox and service brake are set up in a separate drive room located below the station level.
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, a double-sided input into the main gearbox is possible, allowing for drive configu- rations with up to 4 drive motors.
	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.
	The drive sheave is connected with the transmission output shaft by means of a vertical drive shaft. The shafts are connected with a bolt coupling that can be released in no time at all.



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Benefits The underground set-up of electric motor and gearbox ensures low noise emissions in the station area and maximum protection of the drive components at low temperatures. As the station structure does not have to take up the drive torque, the maximum rope tension required by high-power installations at the top station can be easily achieved with an underground drive. Two independently acting braking systems with 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%. Technical data Drive motor AC or DC Service brake Electromagnetic, acting on flywheel 2 callipers max. Safety brake Hydraulic, acting on drive sheave 3 callipers max. Gearbox 4-step planetary gearbox, double-sided gearbox input possible, max. drive torque of 660 kNm

 Drive sheave Ø
 4.20 m (one part); 4.90 m (two parts); 5.30 m (two parts)

 Max. rope tension at top station
 Up to 1200 kN

 Emergency drive system
 Diesel-hydraulic, sheave driven via pinion and sprocket



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