

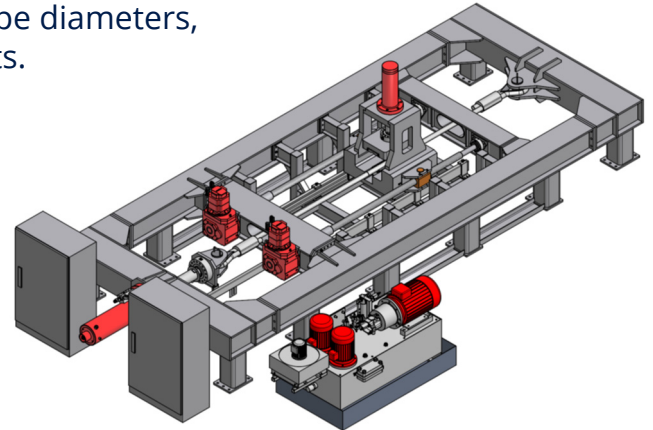
FRICITION TEST RIG FOR WIRE ROPES

Structure and Function

- Friction analyses for different rope designs, rope diameters, traction sheave linings and lubrication concepts.

Technical Data

- Friction module with spindle drive 9.5 kW
- Max. rope tension $F_{S,max} = 400$ kN
- Max. pressing force $F_{P,max} = 250$ kN
- Max. rope diameter $d_{Rope} = 52$ mm
- Rope length 4,500 mm

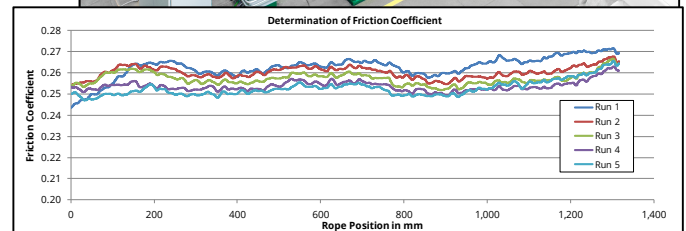
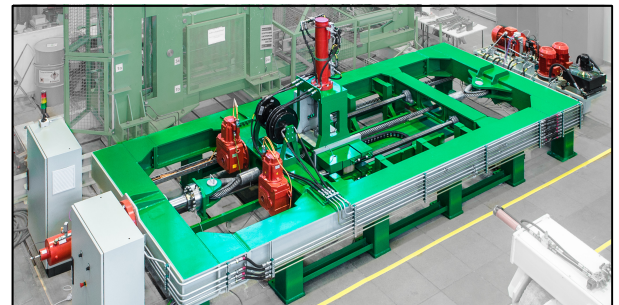


Determine the Friction Coefficient

- Determination of friction coefficients acc. to DIN 21258:2007-10 "Lubricants and impregnating compounds for friction hoist ropes in mining".

Requirements

- Rope is tensioned by 1/7 of the calculated breaking load
- Velocity of the friction module of 7 mm/s
- Automated control of rope tension and pressing force
- Contact pressure between rope and lining of 200 N/cm²



Climate Control

- Climate chamber ensures defined conditions of temperature and humidity (from +15 °C to +40 °C).
- Examinations in the low-temperature range down to -40 °C using dry ice with a local cooling unit.



Contact

Contact Persons: