High production from deep mines
Friction hoists use less energy to hoist loads than drum hoists

Friction hoists use tail ropes to balance the rope weight. So it is only the weight of the payload that requires motor power.

Today’s friction hoists can carry up to 65,000 kg, equivalent to about 13 fully grown African Elephants.

Friction hoists can be used to carry loads from mines up to 2,000 m deep, about the height of 6 Eiffel Towers.

Large friction hoists can have motors rated over 10,000 kW. It takes about 44 full size cars to deliver equal power.

Today’s typical high capacity friction hoists use up to six, 56 mm diameter, steel wire ropes, each consisting of hundreds of individual wires. The total length would be over 5,300 km, almost the same distance from New York to London.