

Elevator, preferably an elevator without machine room. In the elevator, a hoisting machine (6) engages a set of hoisting ropes (3) by means of a traction sheave (7). The set of hoisting ropes comprises hoisting ropes of substantially circular cross-section. The hoisting ropes support a counterweight (2) and an elevator car (1) moving on their respective tracks (10, 11). The hoisting rope has a thickness below 8 mm and/or the diameter of the traction sheave (7) is smaller than 320 mm. The contact angle between the hoisting rope or hoisting ropes and the traction sheave is larger than 180° .