



## An electric or a hydraulic elevator?



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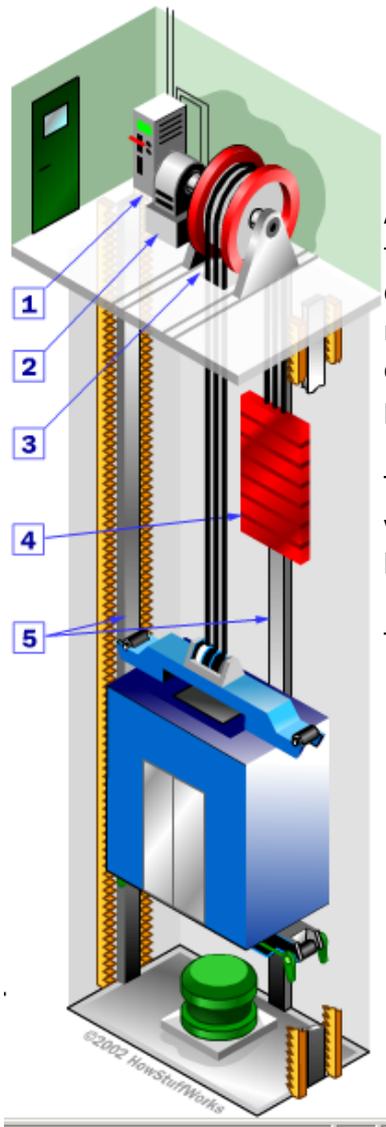
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For vertical passenger transport you have today at disposal 2 types of elevators: hydraulic or electric.



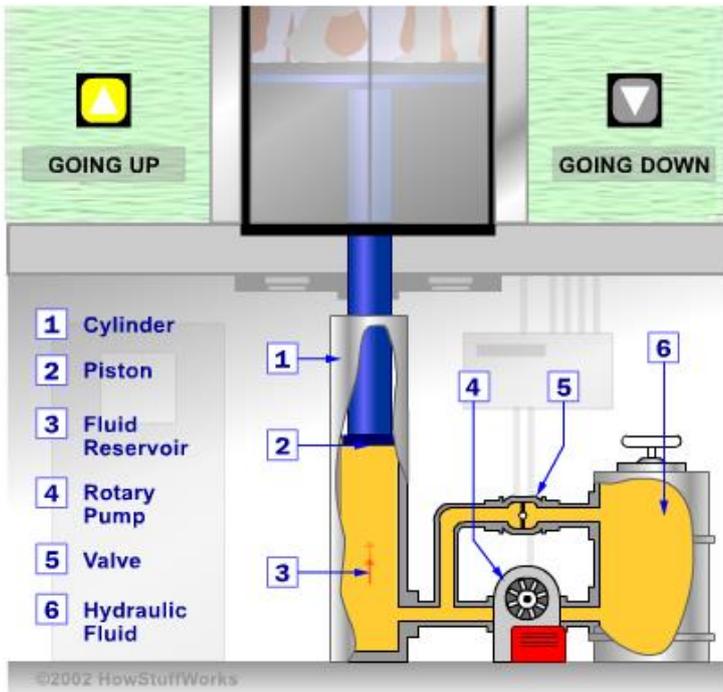
### ELECTRIC ELEVATOR:

An electric elevator is driven by an electric motor (2) installed in the upper part of the shaft. The cabin is connected with the counter-weight (4) through the pulley (3) with steel ropes. The main steel ropes are fixed to the cabin on one side, on the other side they are fixed to the counter-weight. Besides, the pulley has V-grooves in order to prevent the steel ropes to slip.

The advantage of an electric elevator is the possibility to have very long steel ropes, that is why these elevators suit into the highest buildings.

The standard speed of a personal elevator is 1,0 m/s.





## HYDRAULIC ELEVATOR:

A hydraulic elevator is lifted and lowered by a hydraulic cylinder (1) which is normally installed at the bottom of the shaft.

The standard speed of a hydraulic elevator is 0,63 m/s, that is why in contrary with electric elevators the hydraulic ones are suitable for low buildings , with low travel, not more than 18 meters.

The advantage of a hydraulic elevator lies in the fact that when lowering it doesn't consume any energy, because everything is done by gravity.

### Which elevator to choose for your building: an electric or a hydraulic elevator?

CARACTERISTICS	ELECTRIC ELEVATOR	HYDRAULIC ELEVATOR
Speed	1,0 m/s (the travel is done in 8 seconds)	0,63 m/ s (for the same travel it need 5 seconds more than an electric elevator) For buildings with at max.8 meters travel, the difference is negligible.
Noise	Even outside the elevator you can hear the ropes friction on the pulley and the frequency inverter functioning.	In the cabin you can hear slight noises of hydraulic oil. All potential noise is produced in basement stops where the drive is installed.
Motor power	7 kW (less than a hydraulic elevator)	12 kW (in case of lowering speed to 0,4 m/s the hydraulic drive has the power 8 kW)
Automatique resque device for cases of power cuts	Possible only with an additional battery purchase for approximately 1.300,00 EUR	Automatic lowering is a standard equipment of hydraulic elevators SUS.
Price for materials and installation	Approximately 4.000,00 EUR more than for a hydraulic elevator.	Approximately 4.000,00 EUR less than for an electric elevator.
Price of maintenance per month	Approximately 20% more than for a hydraulic elevator. There are more components to maintain (frequency inverter, steel ropes, overspeed governor etc.).	Approximately 20% less than for an electric elevator.
Maintenance	An electric elevator has more	



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	components than the hydraulic one, that is why the costs of replacing used components are higher.	
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Send us your inquiries for electric or for hydraulic elevators and we will send you an excellent offer:  
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Respectful regards,  
Irena Živković  
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