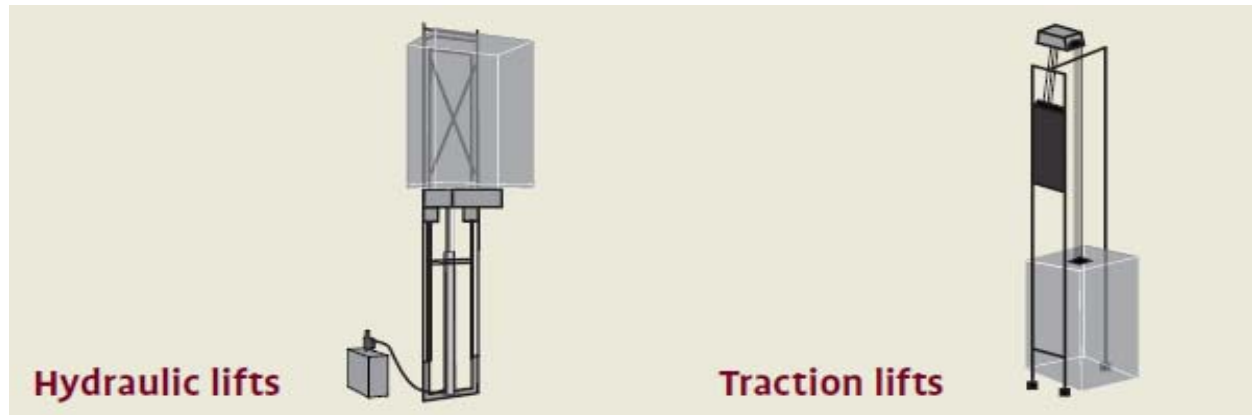


Hydraulics & Lifting Aids

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ADVANTAGES OF HYDRAULIC LIFTS



Parameters	Hydraulic Lift	Traction Lift
Design and space	<ul style="list-style-type: none"> • Smaller space requirement in the shaft • Flexible machine room location • A great deal of design freedom for architects • No rooftop structure is required • No constraints on doorways or the shape of the car • Machine rooms do not need to be in the immediate vicinity of the shaft • Elevator designs can be customized 	<ul style="list-style-type: none"> • Smaller car due to the considerable space needed for the sheave assembly and counterweight, alternatively a larger shaft cross-section and head height • Architectural design scope is very restricted
Safety	<ul style="list-style-type: none"> • Emergency evacuation procedures are very simple and completely safe • Much safer when used in earthquake zones • Safety during service and repair work, since there is no moving counterweight 	<ul style="list-style-type: none"> • Complicated, and in some respects hazardous, emergency evacuation procedures • In an earthquake, the danger from drive components or the counterweight falling on the car
Performance	<ul style="list-style-type: none"> • Particularly high load ratings • All vertical loads act in the shaft pit only 	<ul style="list-style-type: none"> • Poor load ratings



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	<ul style="list-style-type: none"> • Modern technology and weight-optimization ensure an extremely attractive price/performance ratio • Precision controls and leveling scope for any type of building 	<ul style="list-style-type: none"> • Uneven leveling found in the Traction Lift - upto \pm 75mm in low-rise buildings.
Maintenance and Service	<ul style="list-style-type: none"> • Technically straightforward and familiar principle reduces the amount of installation work in the shaft • Low-maintenance drive technology • No wear on pulleys and ropes • Replacement parts are seldom needed • Free choice of maintenance companies • Replacement parts are less expensive, not tied to a particular manufacturer, and available on the open market • Technicians can work on the drive from outside the shaft. They are consequently not exposed to any hazard and thus save time 	<ul style="list-style-type: none"> • Heavy wear on traction sheave and ropes • Complicated work procedures, and hazardous working situations • Long repair and maintenance times • With manufacturer dependent systems, the operator is "locked in" for maintenance and repairs; independent service providers are ruled out
Installation	<ul style="list-style-type: none"> • Simple and economical assembly • Hydraulic elevators are particularly suitable for projects where retrofitting is involved 	The drive system in the shaft head is difficult to access and assembly work is hazardous
Costs	<ul style="list-style-type: none"> • For buildings with up to two floors, the cost effectiveness of hydraulic elevators is virtually unbeatable 	<ul style="list-style-type: none"> • Very high costs for service and replacement parts