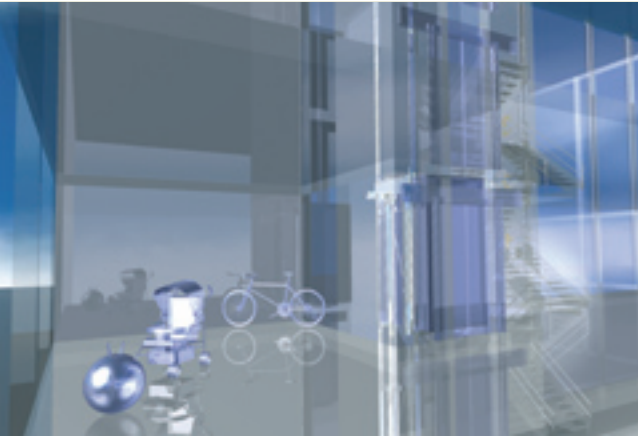


The costs of operating and maintaining a lift

# Hydraulic lifts are cheaper!



A study carried out by the Swiss Federal Office of Energy is the basis for the following calculation of power costs for a lift in an apartment building where 40,000 trips are taken per annum, i.e. approx. 100 trips daily.

Based on this study and known maintenance costs of hydraulic and traction lifts, the result is over **€ 800 annual savings for a hydraulic passenger lift in a appartement building.**

## Annual costs

Maintenance of drive system	100 €
Power costs	260 €
<b>Total</b>	<b>360 €</b>

① Drive independent costs for maintenance of lift control systems, doors, car and emergency evacuation services.

## Hydraulic lifts



## Traction lifts

Maintenance of drive system	1'000 €
Power costs	200 €
<b>Total</b>	<b>1'200 €</b>

## Basics

### Maintenance of drive system

### Hydraulic lifts

Change of oil and seals every 15 years

### Traction lifts

Change of ropes and sheaves every 10 years

Labour and materials	1'500 €
Annual share	100 €

Labour and materials	10'000 €
Annual share	1'000 €

With a hydraulic lift, oil and seals must be changed every 15 years. Materials are obtainable on the open market for hydraulics.

With a traction lift, ropes and sheaves must be changed on average every 10 years. The parts required are proprietary and expensive.

### Power costs

### Hydraulic lifts

Driving current	650kWh <sup>a)</sup>
Standby	650kWh <sup>b)</sup>
<b>Total</b>	<b>1'300kWh</b>
at € 0.20/ kWh	260 €

### Traction lifts

Driving current	250kWh
Standby	750kWh*
<b>Total</b>	<b>1'000kWh*</b>
at € 0.20/ kWh	200 €

Power costs are made up of the consumption for trips and for standby times.

The final report of the Swiss Federal Office of Energy states: "In view of the great significance of power consumption for standby, the significance of drive efficiency must be seen in relative terms."

<sup>a)</sup> By a factor of 2.6 higher power consumption than traction lifts with a typical load factor\*

<sup>b)</sup> One quarter of savings with a hydraulic lift is the result based on dispensing with the inverter\*

\* Source: Swiss Federal Office of Energy, study by the S.A.F.E. Schweizerische Agentur für Energieeffizienz (Swiss Agency for Energy Efficiency), final report on power consumption and savings potential with lifts

Products

# The Bucher Hydraulics range

Bucher Hydraulics offers a wide range of hydraulic lift components.



## Electronically controlled lift valves (LRV)

Bucher Hydraulics lift control valves provide unsurpassed ride comfort, irrespective of load and temperature.

All lift control valves are factory preset to the installation-specific parameters. This reduces the on-site installation time to the minimum.



## Power units

**Compact Line:** the good-value package solution with the innovative synthetic tank and the C-LRV electronically controlled lift valve.

**Comfort Line:** the standard power unit with the LRV-1 electronically controlled lift valve offers unlimited application possibilities and numerous options.

**Economy Line:** the high-performance, economical, and low-noise drive solution with the VF-LRV electronically controlled lift valve reduces energy consumption by up to 80% in comparison with mechanically controlled hydraulic lift installations.



## Frame kits

**Pluto:** The range of side-ram frame kits is suited for hydraulic passenger and goods/passenger lifts with payloads up to 1,600 kg.

**Jupiter:** The range of tandem-frame kits is suited for hydraulic goods/passenger lifts with payloads up to 6,000 kg.



## MRL-drive systems (machine room-less)

**BERIPAC™:** the system offers maximum travel performance with minimum energy consumption.

**Tiger:** the best system for the optimum shaft utilisation.



## Modernisation

**MULTIKIT:** the route to perfect modernisation of a hydraulic lift drive, without time-consuming and costly replacement of the lift controller.



## Cylinders

Versatile, robust and reliable.

## Bucher Hydraulics AG

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