

Silent, fast and safe

Eco Line - the Energy Efficient Solution

With iValve &
VVVF drive
technology

Save up to 60 % energy

- Continuous short travel curve, independent of load and temperature thanks to VVVF technology
- Up to 200 rides per hour are possible without oil cooler and costly machine-room ventilation.

Up to 10 dBA quieter

- The VVVF drive minimizes bypassing sounds
- Optional operation without motor contactors (TÜV-certified)

Minimal installation effort

- No more settings of hydraulic parameters required
- The self-teaching algorithm „iTeach“ provides the shortest travel curve autonomously

Highest safety

- Always an accurate positioning of ± 3 mm, to prevent trip hazard
- The self-monitoring function guarantees fully integrated A3 compliance (TÜV-certified)

Maximum ride comfort, minimal travel time

- No start lag, fast and smooth ride curve, short and consistent slow-speed travels
- The soft-stop function allows almost direct landing

Options

- Up to 40 % lower mains power rating and up to 20 % cheaper with Eco Line^{plus} (see reverse side)
- Further reduction of installation and maintenance costs through operation without motor contactors (TÜV-certified)
- Regeneration package available to feed up to 30% of the drive energy back into the grid



Payload kg	Speed m/s	Travel height m	Valve type	Motor power kW bei 50 Hz	Volumetric flow l/min
up to 1000	up to 1	up to 20	i250VF	6 - 24	100 - 250

Continuous current, load-dependent speed reduction

Eco Line^{plus}

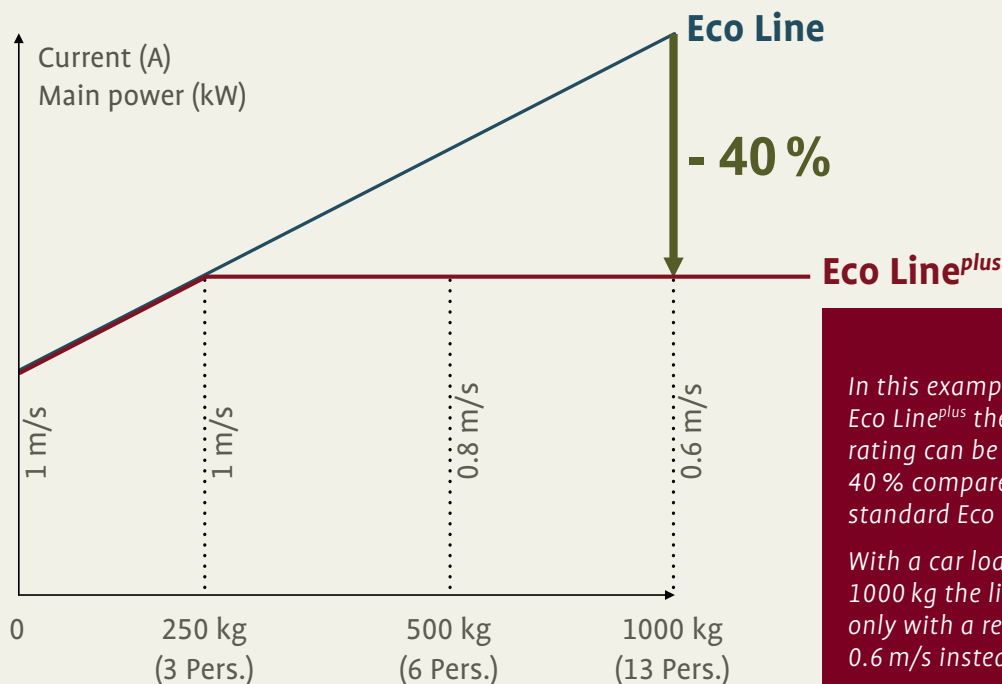
Reduce mains power rating and costs

Additional advantages:

- **Up to 40 % lower mains power rating**

With Eco Line^{plus} we offer the possibility to define a load-dependent travel speed:
 With heavy car loading the UP ride is reduced. Therefore the maximum mains power rating does not have to meet the demands of maximum car loading at maximum speed.
 The maximum mains power rating can be significantly reduced - this can amount up to 40 %!
 Travel DOWN remains constant at the nominal speed.

This graph shows the reduction of mains power rating of a typical lift than can be realised with this option:



In this example with Eco Line^{plus} the mains power rating can be reduced by 40 % compared with our standard Eco Line.

With a car loading of 1000 kg the lift rides now only with a reduced speed of 0.6 m/s instead of 1 m/s.

- **Up to 20 % cost savings**

Not only the mains power rating is reduced considerably, the frequency inverter as well as other components can be configured smaller, too.
 Thus, the cost price can be reduced up to another 20 %.