











Full speed ahead, for all electric heavy-duty forklifts

Economical, powerful, fast, and enduring

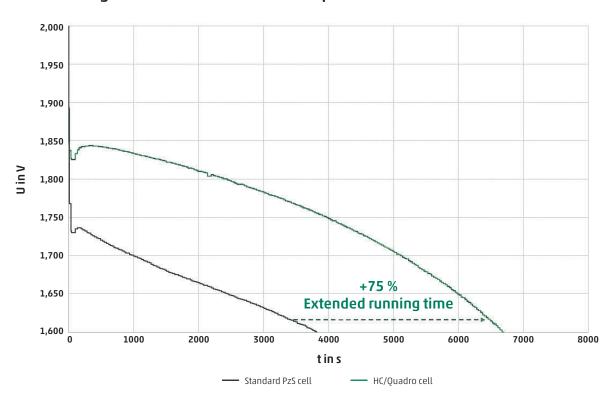
Electrically transporting heavy loads, driving fast, and lifting – the electric drive is moving more and more into areas that were previously reserved for combustion engines. For such power-intensive tasks, however, a conventional PzS traction battery can quickly reach its limits. The trak | uplift quadro is specially tailored to the requirements and challenges of hightonnage vehicles, high-current applications as well as applications with dynamic load profiles.

In addition, due to its lower electrical resistance, the trak | uplift quadro generates approx. 8 % less heat under high load than a classic PzS battery. Because the temperature of a battery plays a major role in its service life and availability, the service life of the trak | uplift quadro increases thanks to the lower heat generation. In addition, heat generation is reduced by the high voltage level of the battery and the resulting low currents, which reduces the load on the electrical components in the vehicle.

With the trak | uplift quadro, not only can logistical processes be made smooth, but operating costs can also be reduced. The trak | uplift quadro is more energy-efficient and requires 7 % less energy for each charging process than a conventional PZS battery – and therefore ensures a reduction in power consumption. Furthermore, the trak | uplift quadro can be charged much faster, requiring at least 12 % less time for a full charge. The result: batteries are available more quickly.

Compared to a classic PzS traction battery, this new generation of batteries ensures trouble-free logistical processes in heavy-duty applications. Thanks to the innovative cell design, the trak | uplift quadro has the property of maintaining high voltages and providing the required battery capacity while simultaneously delivering high currents. For the user, this means longer driving times for their vehicles, as up to 75 % more usable capacity is available, and in many cases, there are even fewer battery changes. As a result, you benefit from both a better return on investment and a reduction in the maintenance effort and costs of your industrial trucks. Logistics managers win twice with the trak | uplift quadro!

Voltage behaviour of the HC cell compared to the classic PzS cell under load*







"Connect Four"

The advantages of **trak** | uplift quadro

1. Extended service life

Thanks to the low internal resistance, heat generation is reduced, which noticeably extends the battery's service life.

2. Higher availability

More usable capacity and longer driving times, due to the property of maintaining high voltages while delivering high currents.

3. Reduction of operating costs

More energy and time efficient due to reduced power consumption and fast charging capability.

4. Compatibility

Can be charged on any standard PzS charger – no new investment necessary.

4 reasons for "Quadro"

up to up to

up to

up to

-8 % **+6** %

+7 %

+75 %

heating energy density

energy savings

usable capacity

Areas of application

- ▶ Industries with heavy-duty operation
- ▶ Material handling with heavy goods
- ▶ Construction machinery
- ▶ Agriculture







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