

trak[®] fnc

Traction energy systems for continuous operation



Motive Power Systems

Reserve Power Systems

Special Power Systems

Service

Your benefits from HOPPECKE trak[®] fnc

- Vehicles can be used **24 hours/7 days a week without battery changeover**
- **Excellent performance in extreme temperatures** (e.g. cold stores and foundries)
- **Use under difficult conditions** - very good mechanical and electrochemical stability

Typical applications for HOPPECKE trak[®] fnc

- Continuous operation 24/7
- Operation in extreme temperatures
- Operation under difficult conditions (e.g. high levels of vibration)



HOPPECKE

POWER FROM INNOVATION

trak[®] fnc-System

Features and benefits

If you wish to use vehicles 24 hours/7 days a week without battery changeover, then the HOPPECKE trak[®] fnc system provides the unique solution for you! The trak[®] fnc alkaline battery system comprises a HOPPECKE traction battery using FNC[®] (fibre-structured nickel) technology, combined with a microprocessor-regulated charger and a battery control unit.

trak[®] fnc technology

Especially in businesses which produce or operate round the clock, the benefits of trak[®] fnc technology really show up to full advantage!

The special properties of this alkaline battery make battery changeover unnecessary. Utilisation for opportunity charging of the pauses in work which occur every day allows 24-hour use of both vehicle and battery. At the same time, virtually 100% availability of vehicles makes possible a reduction in vehicle fleet size.

The extremely high mechanical stability of trak[®] fnc batteries gives long-term resistance to vibration and rough treatment. The electrode material has withstood up to 30 g* (*g= acceleration due to gravity of 9.80 m/s²) in shock testing.

The robust design of the cell therefore means an absolutely reliable energy store, even under the most severe operating conditions. The lack of sensitivity of the nickel-cadmium battery to external factors (e.g. low temperatures) and to incorrect handling excludes the risk of sudden battery failure ("sudden death").

24 hours / 7 days a week without replacement batteries

through opportunity charging technology and the ability to accept high currents

■ Maximum vehicle availability

- Reduced charging times and excellent ability to accept high currents

■ Maximum operating cost savings

- No changeover batteries

■ Maximum energy density

- Lower battery weight, volume and size

■ Excellent mechanical and electro-chemical stability

- May be used under difficult conditions, e.g. at the loading ramp

A monitoring unit ("fuel gauge") specially developed by HOPPECKE for this system gives the fork-lift driver information on availability of the vehicle at any time. Battery capacity and charging current are derived from the vehicle's profile of use and selected so that the normal daily sequence of operations is not interrupted by unforeseen opportunity charging.

In addition, the monitoring unit (BKE) still has the task of countering any incorrect use, by drawing the driver's attention to the need for any required charging, by stopping lifting movement. Other functions such as recording operating hours or energy balancing are also integrated, and make the system complete.



Battery Control Unit (BKE)



Suitable for all types of vehicle



Automatic docking station

■ Good performance at low and high temperatures

- May be used in cold stores and foundries

■ Good reliability for planning purposes

- No sudden system failure

■ Decentralised charging

- No need for a central charging station

■ Maximum operating reliability

- Constant monitoring of battery capacity by the BKE (battery control unit)