



**trak | systemizer powercube**

Mobile turnkey  
charging station

## Application examples



Power cube „large“ with roller beds – lateral change



Power cube „medium“ with grids – horizontal change

## trak | systemizer powercube

The mobile turnkey solution of a charging station in container format

Due to unexpected order peaks, your battery and charging equipment is not sufficient anymore to supply your industrial trucks with operating power? And an expansion of your charging station is not possible because of missing space, limited budget or high safety requirements? Well, what now? We understand your challenge. Nothing has been left to chance.

Our trak | systemizer powercube is a turnkey solution for charging and changing of traction batteries.

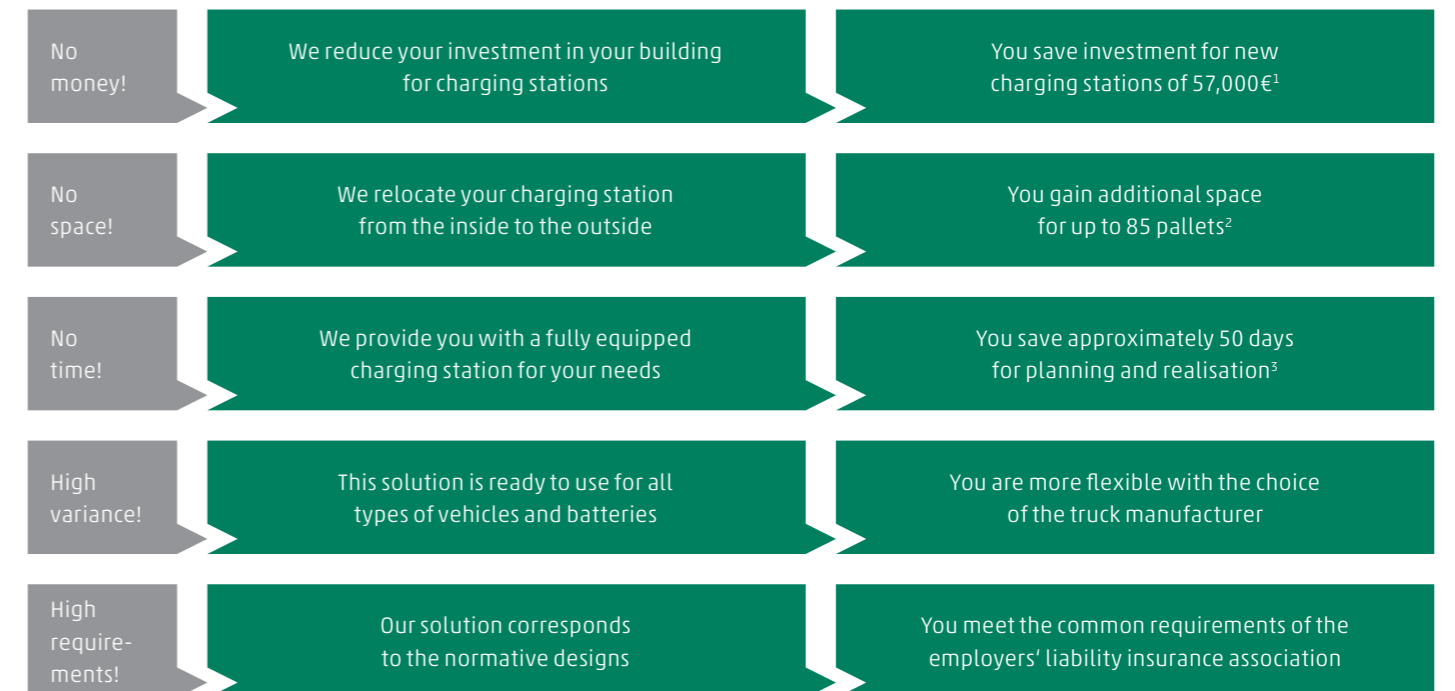
The trak | systemizer powercube is a completely mobile charging station with integrated ventilation system, heater, lighting as well as other special features. These characteristics allow you the positioning of your charging station both inside and outside.

The energy supply of your truck fleet is from now on ensured centrally and locally.

And the best: you only need an electrical connection and do not have to mind about anything else.

It is every bit as good as it sounds!

### 5 convincing arguments:



<sup>1</sup> A charging container with a shunting range needs a space of ~85 m<sup>2</sup>. The costs for a new building are approx. at 700 €/m<sup>2</sup>.

<sup>2</sup> A charging container with a shunting range needs a space of ~85 m<sup>2</sup>, this equals the space for 85 pallets.

<sup>3</sup> The planning and realization is intensive. From our long-term experience we know that approx. 50 days are needed to finalize commissioning of a small charging station.

## Characteristics



- 1 Ventilation System**  
ensures that the charging container does not hold oxyhydrogen gas
- 2 Heater**  
to reach the optimal charge even at wintery outdoor temperatures
- 3 Lighting**  
enables the battery changing at all times
- 4 Battery stands or roller beds**  
with underlying acid drip trays enable a lateral or horizontal change

- 5 Control system**  
with reliable switch-off function of the electric supply in case of a failure of the ventilation system
- 6 Charger platform**  
in stable steel construction for the safe set-up of the chargers
- 7 Safety markings**  
to fully meet the legal requirements
- 8 Lockable smooth-running sliding doors**  
allow the easy access to the batteries and chargers

## Standard types and options

Standard charging container Type designation	80 V <sup>1</sup> battery quantity	48 V <sup>2</sup> battery quantity	24 V <sup>3</sup> battery quantity
<b>TS-PC-1L</b> – charging container „small“ with grids for horizontal changes (control cabinet on the left side)	2	2	6
<b>TS-PC-1R</b> – charging container „small“ with grids for horizontal changes (control cabinet on the right side)	2	2	6
<b>TS-PC-2L</b> – charging container „small“ with roller beds for lateral changes (control cabinet on the left side)	2	2	6
<b>TS-PC-2R</b> – charging container „small“ with roller beds for lateral changes (control cabinet on the right side)	2	2	6
<b>TS-PC-3L</b> – charging container „medium“ with grids for horizontal changes (control cabinet on the left side)	4	4	14
<b>TS-PC-3R</b> – charging container „medium“ with grids for horizontal changes (control cabinet on the right side)	4	4	14
<b>TS-PC-4L</b> – charging container „medium“ with roller beds for lateral changes (control cabinet on the left side)	4	6	12
<b>TS-PC-4R</b> – charging container „medium“ with roller beds for lateral changes (control cabinet on the right side)	4	6	12
<b>TS-PC-5L</b> – charging container „large“ with grids for horizontal changes (control cabinet on the left side)	6	8	18
<b>TS-PC-5R</b> – charging container „large“ with grids for horizontal changes (control cabinet on the right side)	6	8	18
<b>TS-PC-6L</b> – charging container „large“ with roller beds for lateral changes (control cabinet on the left side)	6	8	18
<b>TS-PC-6R</b> – charging container „large“ with roller beds for lateral changes (control cabinet on the right side)	6	8	18

We can accept no liability for the information provided and cannot vouch for its accuracy.

<sup>1</sup> basis: 80 V battery with L 1028 mm x B 999 mm x H 784 mm and a weight of 2300kg

<sup>2</sup> basis: 48 V battery with L 835 mm x B 634 mm x H 784 mm and a weight of 1400kg

<sup>3</sup> basis: 24 V battery with L 835 mm x B 223 mm x H 784 mm and a weight of 400kg

### Options:

- Tailor-made solution on request
- Service contract with HOPPECKE Service (recommended)
- Battery management system
- Conductor rail with outlet box (recommended)
- Connection line with CEE connector 125 A/CEE 5~
- Manual changing unit
- Water purification system
- Canopy made of sheet steel with 1.5 m outreach
- Sun shield made of sheet steel
- Additional heaters (each 2.5 kW)
- Safety equipment

## Technical data and requirements

Type designation	Outside dimensions W x D x H [mm]	Inside dimensions W x D x H [mm]	Tare weight [kg]	Battery shelf [kg]	Shelf load platform [kg]	Fan capacity <sup>1</sup> [m <sup>3</sup> /h]	Heating capacity [kW]	Power connection <sup>1</sup> [A]
TS-PC-1L „small“ Grid	3100 x 1500 x 2980	2650 x 1280 x 2380	1900	5000	300	260	2x 2,5	40
TS-PC-1R	see above	see above	see above	see above	see above	see above	see above	see above
TS-PC-2L „small“ Roller bed	3100 x 1500 x 2980	2650 x 1280 x 2380	2400	5000	300	260	2x 2,5	40
TS-PC-2R	see above	see above	see above	see above	see above	see above	see above	see above
TS-PC-3L „medium“ Grid	5800 x 1625 x 2980	2x 2550 x 1280 x 2380	3000	5200	300	450	4x 2,5	80
TS-PC-3R	see above	see above	see above	see above	see above	see above	see above	see above
TS-PC-4L „medium“ Roller bed	5800 x 1625 x 2980	2x 2550 x 1280 x 2380	3600	5200	300	450	4x 2,5	80
TS-PC-4R	see above	see above	see above	see above	see above	see above	see above	see above
TS-PC-5L „large“ Grid	8600 x 1625 x 2980	2x 3850 x 1280 x 2380	4100	8500	300	650	4x 2,5	120
TS-PC-5R	see above	see above	see above	see above	see above	see above	see above	see above
TS-PC-6L „large“ Roller bed	8600 x 1625 x 2980	2x 3850 x 1280 x 2380	4900	8500	300	650	4x 2,5	120
TS-PC-6R	see above	see above	see above	see above	see above	see above	see above	see above

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<sup>1</sup> basis: The design is based on the use of HF chargers with an IULa charging curve ( $I_{gas} = 5 A$ ) and a charging time = 6 hours.

### Requirements for usage:

- Sufficient space
- Even surface
- Pointload of the footprint of 45kN/ 70kN (without batteries and chargers)
- Concret foundation strips (recommended)
- Supply line for power connection (on-site)
- Potential equalisation (on-site)
- Free roadways
- Roadways cleared of snow and ice
- Sufficient space for unloading with truck-mounted crane

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