



OTSAW



swisslog
healthcare

TRANS CAR

TransCar Automated Guided Vehicle (AGV)

Combining international expertise
In robotics and healthcare



*biz*SAFE₃

Transforming Healthcare through Material Transport Automation



**Linen
Delivery**

**Surgical Tools
Delivery**

**Meal
Delivery**

**Logistics
Delivery**

**Waste
Delivery**

Enabling Automation for Facility Management



Features:



Durable

Designed for high performance and **long lifespan** of over **10 years**; in handling heavy-duty transports.



Reliable

Proven technology with demonstrated ROI; more than 800+ AGVs deployed in 50+ hospitals worldwide.



Safe

Reduce structural and material damage with controlled movement; **fewer collisions** which reduces cost of repairs and replacements.



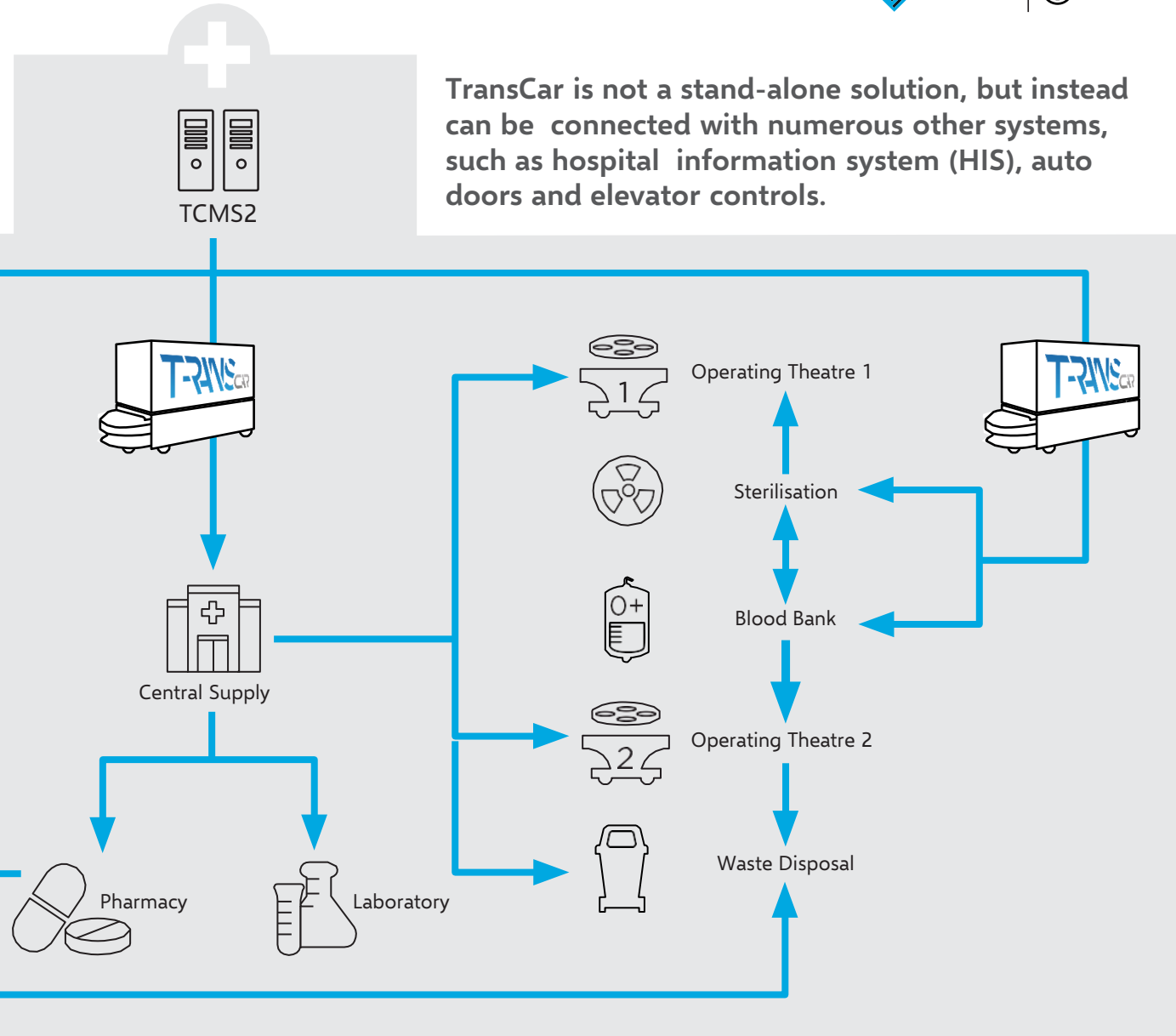
Adaptable

Easy route programming that integrates system into existing buildings with no significant construction. **Easy route changes** and **scalable** for future expansion.



Process Optimization with Systems Integration

In-House Logistics | Healthcare



TransCar Management System 2 (TCMS2)

TCMS2 communicates with all vehicles via an extensive wireless network. It can provide consistent delivery performance by managing order and inventory scheduling, vehicle routing, timing and speeds independently.

KEY SOFTWARE FUNCTIONS & INTERFACE

3D Graphics

The system layout is viewable in real-time 3D and data collected can be evaluated in graphical and statistical view.

Elevator Interface

Control interface equipment and software enables AGVs to call, enter, direct and exit elevators for seamless automatic vertical transport.

On-Board Navigation

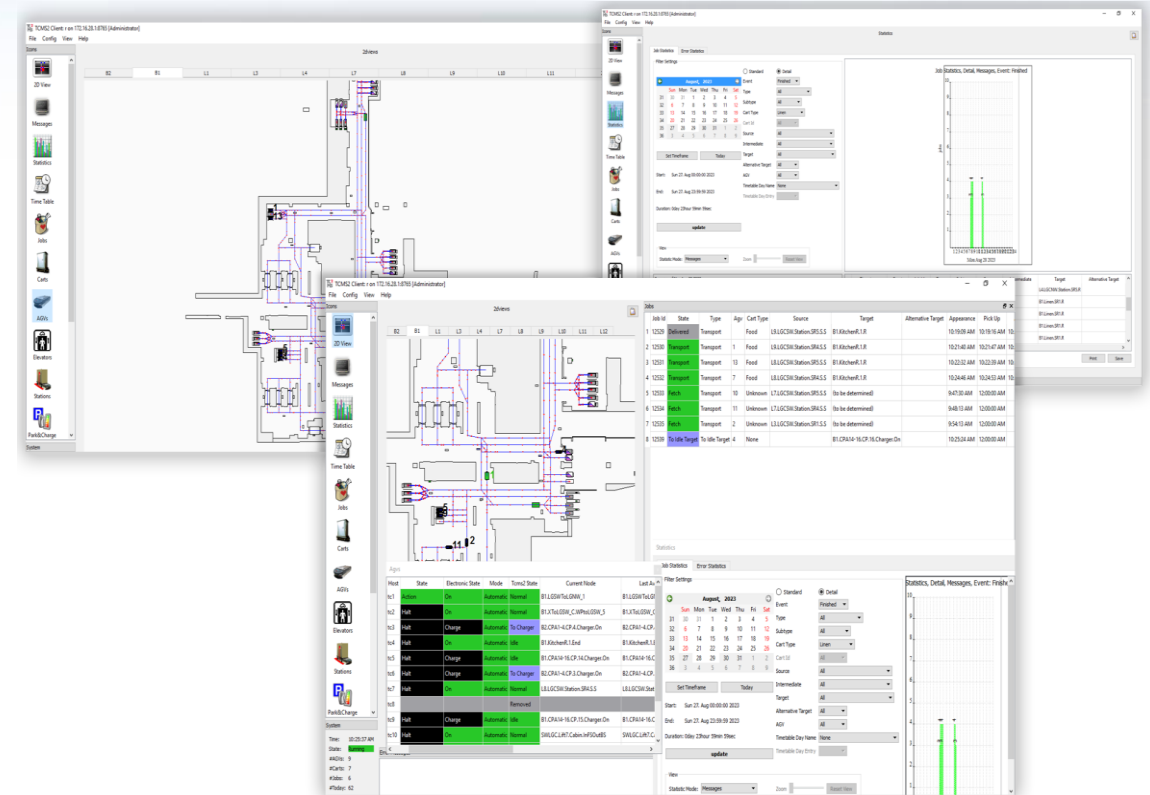
Stores navigation map in each vehicle for easy access and reference.

Audio and Visual Alerts

Announces vehicle's presence and pending actions to promote safe human interaction with pedestrians.

Beacon Interface

Activates off-board lights, beacons and sounds to alert people of approaching traffic and delivery of carts.



TransCar Features

Effective Space Saving:

- Improved maneuverability in confined spaces thanks to a tricycle drive system and a maximized navigation field
- Lift deck vehicle equipped with photocell sensors for a precise detection of the parked containers

Innovative Safety Features:

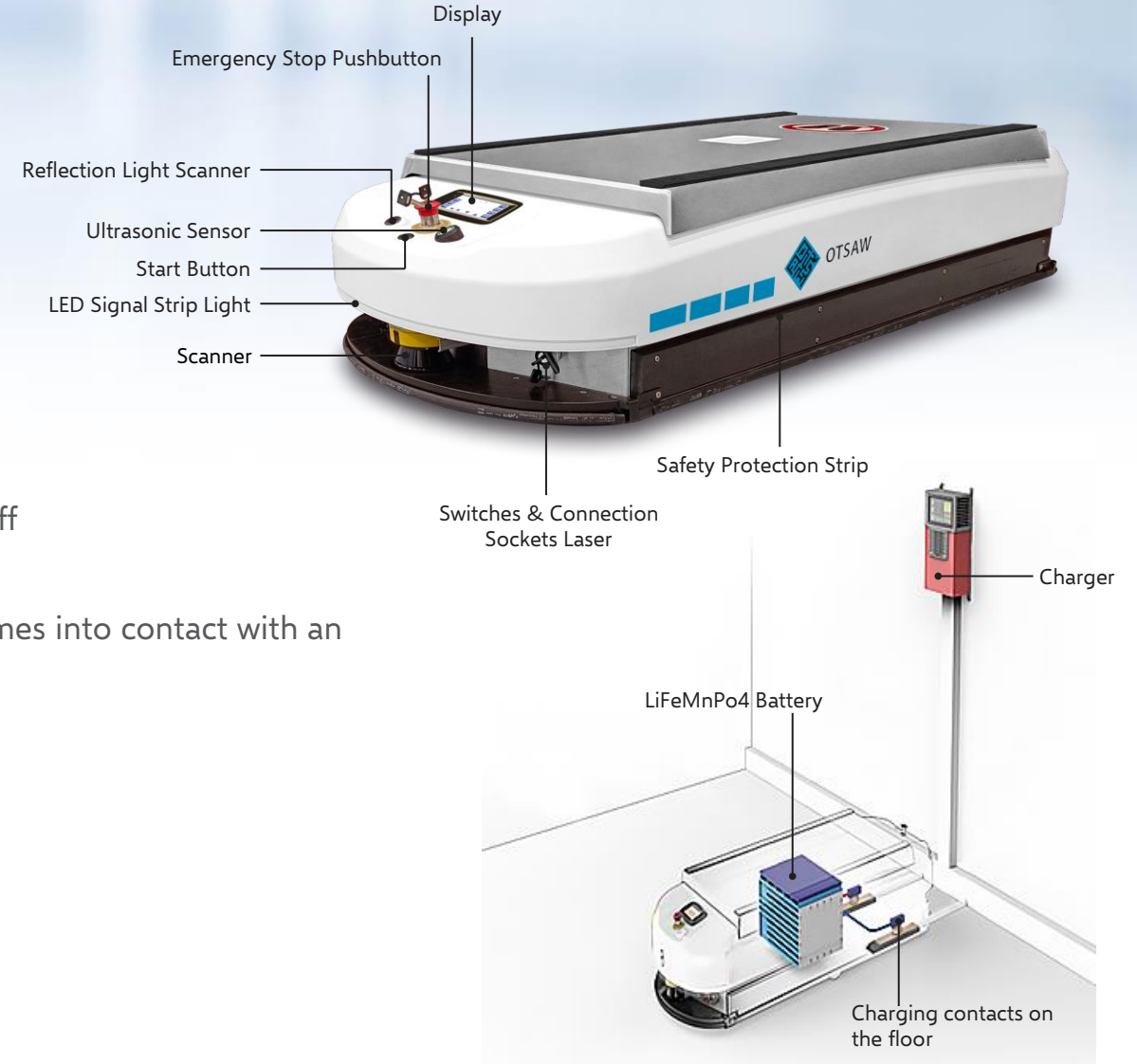
- Alerts through acoustic and visual signals
- Two emergency buttons (front and back) for immediate stopping or shutoff
- Additional obstacle detection (ultrasonic and floor detection sensors)
- Lateral sensing bumpers ensure that the vehicle stops immediately if it comes into contact with an obstacle

Data-Driven Sustainability:

- Weight sensors to collect big data for food waste reduction

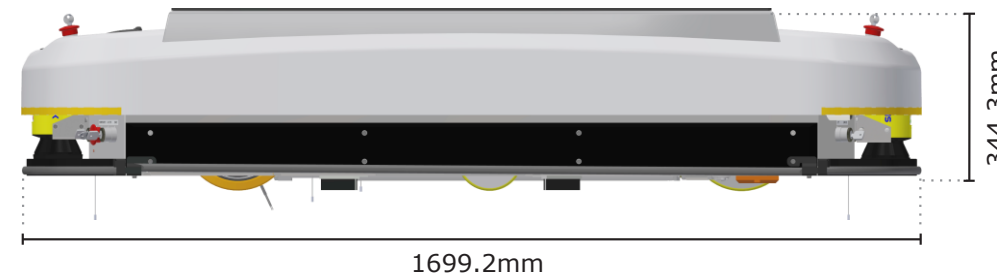
Charging & Battery:

- LiFeMnPo4 25.6 V / 100Ah battery
- A long-life cycle of 5,000 cycles at 80% capacity use
- During charging and discharging the battery management system improves the safety of the battery



Specifications & Data

Feature	Value
Speed	$V_{min} = 0.1 \text{ m/s}$, $V_{max} = 1.6 \text{ m/s}$
Lateral Track Tolerance	+/- 15 mm
Positioning Accuracy	+/- 25 mm
Weight (Including Batteries)	255 kg
Max. Load Capacity Including Container	500 kg
Battery Type	LiFePo4
Battery Capacity	100 Ah
Dimensions (L x W x H)	1699.2 mm x 615.9 mm x 344.3 mm
Lifting Height	40 mm
Slope	Max. 7% (with reduced vehicle performance)
Noise Rating	< 70 dB (A)





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