

CASE STUDY

SUNSHINE COAST UNIVERSITY HOSPITAL BIRTINYA, QUEENSLAND



The automated guided vehicle TransCar is the efficient solution for regularly repeated transportation tasks.

The TransCar System

Track Length:	2,300 m
Payload:	500 kg
No. of AGVs:	16
No. of lifts:	17
No. of floors:	7
No. of stations:	124
Transports per day:	900+
Commissioned:	2017
Transported Goods:	Food Linen Waste Supplies

The Customer

The Sunshine Coast University Hospital (SCUH) currently has 450 beds, with plans to grow to 738 beds by 2021.

SCUH provides tertiary services for the Sunshine Coast Hospital and Health Service region in Queensland, such as emergency, cancer, maternity, rehabilitation, allied health, outpatient and general medicine, mental health, renal and surgical services.

The Lamson Automated Guided Vehicle (AGV) automatically transports meals, laundry, waste and supplies for the Sunshine Coast University Hospital (SCUH) in Birtinya, Queensland.





The Solution

Lamson's AGV system TransCar manages the collection and delivery of goods such as linen, disposables, medical goods, food and waste throughout the whole hospital.

16 TransCar vehicles transport approx. 500 trolleys on 900+ journeys every day and navigate to 124 drop-off stations.

Thanks to the automated guided vehicles, transportation during peak hours is on time and runs smoothly.

The TransCar vehicles communicate with 17 separate goods lifts and calls the lift to navigate to destination floors. The service lifts are shared between staff and TransCar vehicles.

TransCar Management System (TCMS) controls the vehicles and the path layout can be easily visualized.

Radio Frequency Identification (RFID) technology is used on the trolleys to automatically send trolleys to pre-set destinations without staff needing to address the transports, increasing productivity and efficiency.

There are a central battery charging station and 2 satellite charging bays next to the lifts, to ensure quicker response times and higher efficiency.

The Benefits

Removing the task of transporting goods, hospital staff can now concentrate on patient care and higher skilled activities.

At a Glance

- Relief of staff from transportation tasks
- Reduction of Occupational, Health and Safety injuries
- Reduction of damages to the building
- Just-in-time delivery of material
- Transparency and control of delivery
- Improved quality through reliable delivery processes



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