



AIRPORT LOGISTICS

## AUTOMATED GUIDED VEHICLES

INCREASE THE EFFICIENCY OF YOUR TERMINAL

### Flexible transportation of baggage and cargo ULDs

Lödige Industries is revolutionising the response to current challenges in air cargo handling with the introduction of intelligent automated guided vehicles (AGV) for flexible and scalable ULD transportation.

As integral element of fully automated cargo terminals, our new AGVs provide the link between import/export areas and build & break workzones as well as automated storage and retrieval systems. In manual terminals, they can enable cargo handlers to take the first step towards the benefits of automation. Quickly and easily route transportation

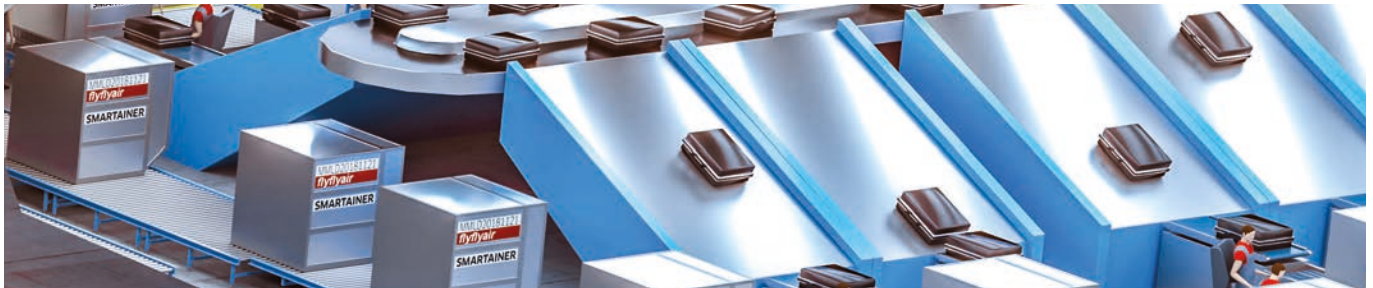
inside your terminal. Assign routes via your warehouse management system (WMS) and reduce stationary equipment to create flexible, scalable and reliable cargo flows.

The data-based intelligence of our AGVs enables absolute accuracy and complete control over cargo flows. Reduce the potential for ULD damage, enable 24/7 operations and free workforce for higher value tasks.

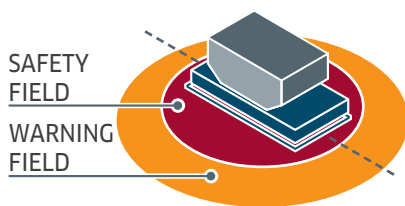
**Enabling your IATA conform handling of ULDs.**



# 5 ft AUTOMATED GUIDED VEHICLE

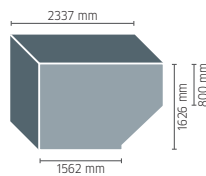


## SAFETY FIELD

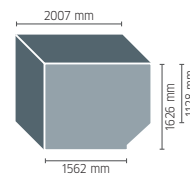


## TRANSPORTABLE ULDS

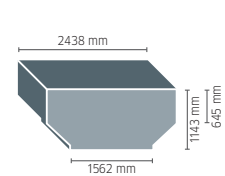
### CONTOUR C



### CONTOUR E



### CONTOUR H



## TECHNICAL DATA

Dimensions LxWxH

3,075 mm x 1,730 mm x 790 mm

Conveying height

508 mm

Load capacity

1,588 kg

Deadweight

1,400 kg

Drive technology

Omnidirectional

### Drive Unit

Drive type

2 x 2.5 kW 48V AC Motor

Max speed

1.5 (3.0) m/s

Max acceleration

0.6 m/s<sup>2</sup>

### Roller conveyor

Drive technology

0.44 kW 48V DC Roller Drive

Max speed

0.3 m/s

Max acceleration

0.3 m/s<sup>2</sup>

### Power supply

Type of battery

up to 16 x 48V Li-Ion

Battery capacity

up to 400 Ah

Battery runtime

12 h

### Additional information

Guidance system

Natural navigation

Network connection

WiFi

Stop precision

± 10 mm

Obstacle sensor

Laser technology

Safety

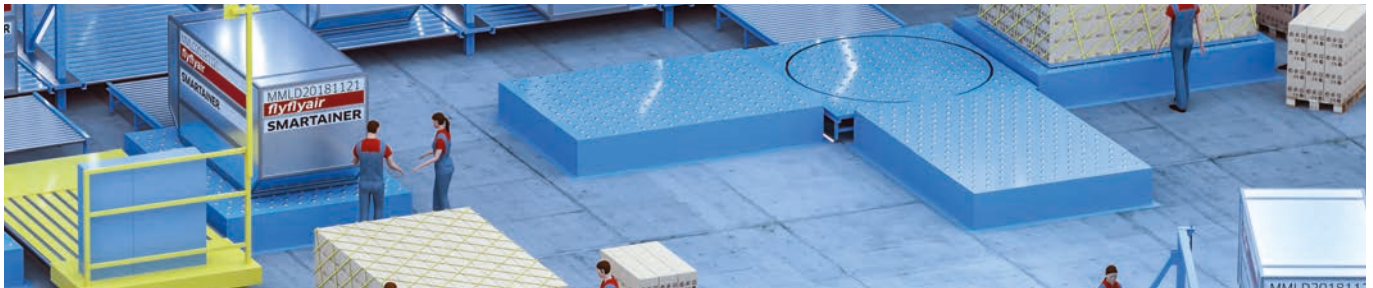
According to all relevant standards (EN1525, EN13849),

2 x Laser scanner, LED indicator lights, 2 x emergency stops,

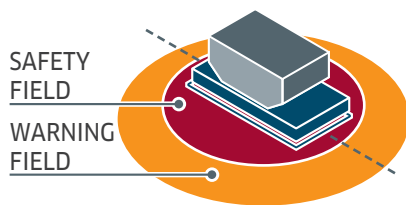
2 x plate stops (conveyor), 2 x 360° PTZ cameras



# 10 ft AUTOMATED GUIDED VEHICLE



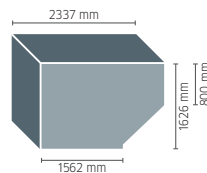
## SAFETY FIELD



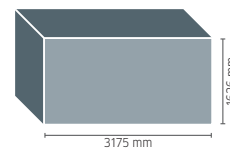
## TRANSPORTABLE ULDS

TRANSPORT OF 15FT ULD POSSIBLE

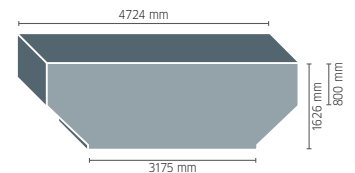
### 2x CONTOUR C



### CONTOUR P



### CONTOUR U



## TECHNICAL DATA

Dimensions (NEP) LxWxH

Dimensions (WEP) LxWxH

Transfer height

Load capacity

Deadweight

Drive technology

3,550 mm x 2,640 mm x 558 mm NEP

3,380 mm x 2,900 mm x 558 mm WEP

508 mm

6,800 kg

3,000 kg

omnidirectional

### Drive Unit

Drive type

Max speed

Max acceleration

2 x 2.5 kW 48V AC Motor

1.5 m/s - 3.0 m/s

0.3 m/s<sup>2</sup>

### Power supply

Type of battery

Battery capacity

Battery runtime

Up to 16 x 48 V Li-Ion

Up to 400 Ah

8 hours

### Additional information

Guidance system

Network connection

Stop precision

Obstacle sensor

Safety

Natural navigation

WiFi

± 10 mm

Laser technology

According to all relevant standards (EN1525, EN13849),

2 x Laser scanner, LED indicator lights, 2 x emergency stops push buttons,

2 x 360° PTZ cameras, 2x2 plate stops to protect ULDS

