

TUNNEL AGV

# OSCAR family

**DS**  
AUTOMOTION



### Highest ergonomics and personal safety.

The OSCAR tunnel AGVs navigate contour-based (SLAM) without specifically installed landmarks. For areas of increased position accuracy, magnetic references can be added to the floor. OSCAR omni's omnidirectional mobility allows diagonal driving. OSCAR spin is able to turn on the stand, which reduces the space required for cornering and turning radius.

This robust construction and the solid drive concept contribute to uncompromising industry suitability and longevity of the AGV. In addition, the OSCAR tunnel AGVs offer a 25 mm ground clearance to overcome even uneven floors. On board lithium battery is charged automatically via opportunity charging. The AGVs are fully compatible with all different types of free ranging AGV navigation principals offered by of DS AUTOMOTION, even with existing systems.

Embedded front LED lights together with the colored ground light not only ensure the necessary visual attention, but are also used for communication with the environment.

### Technical Details

#### Overview:

<b>Max. Payload</b>	1,0 t (2,200 lbs)
<b>Max. Speed</b>	1,6 m/s (5,25 f/s)
<b>Lift travel</b>	80 mm (3.15 in) 120 mm (4.72 in)
<b>Navigation</b>	SLAM, magnetic dot sequence
<b>Power supply</b>	Automatic opportunity charging
<b>Battery</b>	LTO (48V / 22Ah) LiFePo <sub>4</sub> (24V / 100Ah)
<b>Reduced maintenance cost due to</b>	Brushless motors

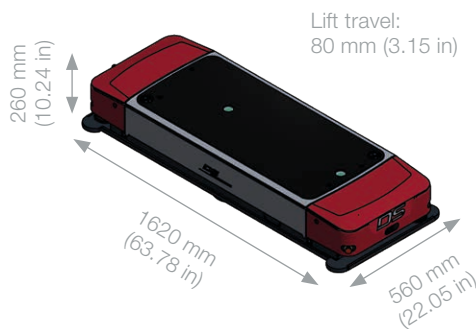
#### Personal safety:

- Protected integrated laser scanner with 360 ° surround view
- Bumpers

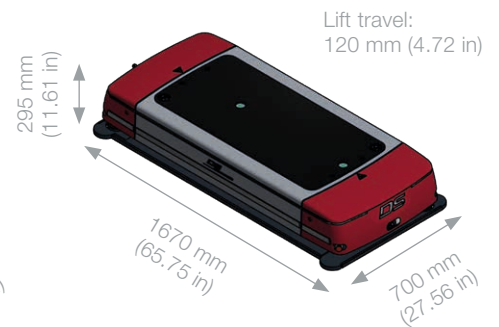
### OSCAR omni 360° safety



### OSCAR spin 180 180° safety



### OSCAR spin 360 360° safety



#### Field of application:

- transport of trolleys / dollies
- transport of frames / racks with feet
- transport of elevated loads
- supply and transport can be lengthwise or crosswise
- undercut dimension min. 650 x 235 mm (W x H)

#### Field of application:

- transport of trolleys / dollies
- transport of frames / racks with feet
- transport of elevated loads
- supply and transport can be lengthwise
- undercut dimension min. 610 x 280 mm (W x H)

#### Field of application:

- transport of trolleys / dollies
- transport of frames / racks with feet
- transport of elevated loads
- supply and transport can be lengthwise
- undercut dimension min. 750 x 315 mm (W x H)