



proANT AGVs

proANT 436 AGVs

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A proANT with a lifting function for SLC (small load carrier) which can be delivered with either of three types of load handling devices.

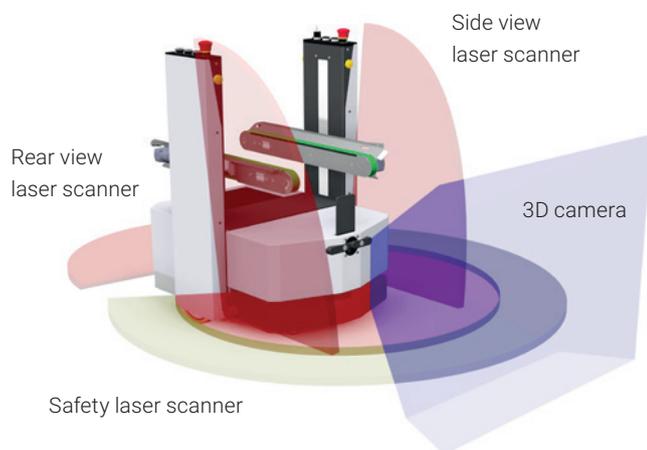
proANT transport robot with lifting function for SLC

The lifting usually allows infinitely adjustable hand-over heights between 410 and 750 mm, but can be modified by customer request. This transport robots can realize different hand-over heights and can drive faster due to the center of mass lying optimally with a lowered load handling.

Safety

proANTs autonomously plan the optimal transport route while constantly scanning their environment in the direction of travel with a safety laser. If they detect a person or an obstacle, they avoid them independently.

Moreover, a 3D camera can be integrated to control the space above with security laser scanner. Two more laser scanners at both sites and one at the back of the vehicle-encircling security field.



Dimensions (LxWxH)	740 x 622 x 895 mm
Laser scanner	S300 von SICK (personal safety)
Load	Up to 50 kg
Load handling	3 standard designs for SLC 600x400 mm; or customized for load and product
Height of load transfer	440-750/1100 mm with automatic lifting
Drive	Electric motor, 2 wheels differential drive and 2 free spinning wheels
Speed	1.5 m/s
Turning circle	0 mm (turns on the spot)
Positioning accuracy	1°, +/- 10 mm
Battery	8 cells LiFeYPO4 with balancing board and temperature monitoring, 24 V DC



Load handling and Loadports

There are three types of load handling available for transport of KLT containers with a ground area of 600 x 400 mm:

- Passive load handling with skids (left)
- Active load handling with belt conveyor (center)
- Active load handling with small belt conveyor (right)

The belt conveyor allows the transport of additional containers and small-sized boxes.

Transfer of load can be realized with every conveyance technique. Depending on load handling and demand very different active and passive transfer stations can be designed for example simple Pick & Drop Stations at work stations.



The proANT AGVs navigate autonomously. They find their path individually, avoid obstacles and calculate alternative routes to reach their goal in the shortest time possible.