



InSystems
automation



pr  ANT

Automatic Navigating Transport Vehicle



www.proANT.de

proANT 436 „SASHA“ with magazine shelf

Our well-proven transport robot model proANT 436 is available with an implemented magazine shelf in which up to seven tablets or flat Small Load Carriers, depending on height, can be transported. The large lifting allows the automatic passing of loads not only within the magazine shelf, but also in any desired height between 420 and 1.350mm. The shelf manager manages which material is located in which compartment and where it is to be delivered. A bar code scanner verifies the containers/trays and a sensor checks whether the receiving compartment is full or empty, before a load gets passed.



The proANT 436 allows the installation of time-saving consolidated transports to one or several destinations. This reduces the time needed for transports significantly, particularly over longer distances.

Safety

The proANTs are outfitted with a safety laser scanner which continuously scans the AGV's environment in its driving direction. Implemented here are speed-dependent security fields, which ensure that the proANT always comes to a halt safely. Other safety scanners at its sides and back are configured depending on customer requirements.



SASHA Smart Autonomous System Hospital Assistant

The proANT 436 SASHA was originally designed as an intelligent hospital assistant in the context of an arabian TV show. It was produced in order to transport food and medicine and has been tested within a clinic.

Technical data

proANT 436 with large lifting and magazine shelf

Dimensions	740 x 622 x 1.500 mm (LxWxH):
Laser scanner:	S300 by SICK (personal safety) 2 TIM side scanners
Load:	up to 50 kg (total)
Load handling:	400 x 300 mm; further product-/load-specific customizations possible
Magazine shelf:	up to 7 compartments, dep. on height
Height of load transfer:	420-1.350 mm with automatical lifting
Gear:	2 servomotors, 2-differentiated driving and 4 free spinning wheels
Speed:	1,0 m/s
Turning radius:	0 mm (turns on the spot)
Positioning accuracy:	1°, +/- 10 mm
Battery:	8 cells LiFeYPO4 with balancing boards und temperature monitoring, 24 V DC

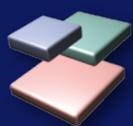
proANT transport robots

InSystems Automation engineers and manufactures customized autonomous guided vehicles (AGV) for intralogistic transportation purposes according to loads, transport routes and handling heights, which are unique to each and every production site. Usually, these AGVs are able to transport and manage loads of 20 to 200 kg, but up to 1000 kg can be achieved.

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.

To avoid jams or system halts, the proANT AGVs communicate among each other and manage their traffic via WLAN. A fleet manager controls the AGVs' battery status and lets them return to the charging station if necessary. Thanks to modern battery technology, the charging process is highly efficient at a rate of 1:4,5 and therefore does not take much time.

Further information at www.proANT.de



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