



InSystems
automation



www.proANT.de

pr  ANT

Automatic Navigating Transport Vehicle

proANT for pallets up to 1.200 kg

In cooperation with Stöcklin Logistik AG and BlueBotics SA, InSystems Automation offers the proANT 576 for pallets up to a maximum load of 1,200 kg. The driverless pallet truck picks up pallets fully automatically and uses a once learned environment contour to navigate completely autonomously on virtual lines to the goal.

InSystems provides the fleet management with the management of transport orders and integrates the proANTs into the production environment: Path widths and constrictions, automatic doors and forklift traffic as well as interfaces to existing material flow systems are taken into account.



The transport orders can be triggered in all levels of automation from manual to automatic via control systems or sensors (pull principle).



Integration in demanding environments

InSystems integrates the transport robots in particularly demanding working environments with automatic doors and double door systems, with forklift, car or truck traffic. In the case of high density of traffic, traffic light systems can also be used for the right of way control with which vehicles communicate.



Safety



The proANT 576 is safe for people and equipped with safety laser scanners all around. Light sensors on the forks ensure that the pallets are safely picked up, and switches monitor the correct position during pick-up and transport.

The pallet is only set down when the deposit area is free. The proANT adapts its speed to the environment and always comes to a safe halt. This is ensured by the speed-dependent warning and protective fields defined in the safety laser scanners, through which the vehicle reduces or stops its speed.

Technical Data

proANT	
Dimensions (LxBxH):	2.150 x 830 x 1.940 mm
Laser scanner:	Safety scanner (personal safety)
Load capacity:	Euro pallets 1.200 x 800 mm ISO pallets 1.200 x 1.000 mm up to 1.200 kg and up to 2.000 mm height
Load handling:	Forks with sensors
Lifting height:	max 1.200 mm
Drive:	3 wheels, turning over the front wheel
Speed:	1,4 m/s
Gradient:	max. 3 %
Turning circle:	1.650 mm
Positioning accuracy:	+/-3°, +/- 30 mm
Battery:	LiFeYPO4 mit Balancerboards und Temperatur Überwachung, 24 V DC

proANT transport robots

InSystems Automation develops customized transport robots for loads from 30 to 1.200 kg and implements them as a fleet in existing production control systems and manufacturing environments.

The proANT transport robots navigate automatically by means of laser scanners without ground loops or wall reflectors. They are personal safety, communicate via WLAN and as a fleet of vehicles they organise all transport tasks for a fully automatic, in-house material flow. The fleet manager monitors the battery status of the vehicles and sends them to the charging station in time, where they only have to charge for a few minutes due to modern battery technology.

InSystems supplies not only the vehicles, which are optimized for loads, transfer heights and aisle widths, but also all software components (fleet manager, order management, interfaces to production control) in any required degree of automation as a complete material flow solution from one source.

More proANT information on www.proANT.de



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