

GOPAL

THE COMPLETE SOLUTION
FOR SAFE AND SIMPLE
AUTOMATION



robotize

A NEW STANDARD FOR FLEXIBILITY AND SAFETY

GoPal is a comprehensive range of fully CE-approved solutions for the automation of internal pallet transport in factories and warehouses.

Our autonomous collaborative robots are designed and approved for safe cooperation with humans and can handle a wide variety of pallet formats and payloads.

GoPal gives you a fully integrated solution – with robots, pallet stations and software – that can be onboarded in a matter of days with almost no site adaptation or handholding.

THE GOPAL SAFETY PHILOSOPHY IS INTEGRATED IN ALL OUR SOLUTIONS



QUICK PAYBACK

Your GoPal solution will achieve payback and start saving you money in just 4-18 months, depending on salary levels and the shift plan used in your facility.

SAFE AND HEALTHY WORK ENVIRONMENT

Since it eliminates the accidents and hard work associated with forklifts and pallet jacks, a GoPal solution will make the workplace both safer and healthier.

MINIMIZE COST OF HUMAN ERROR

Forklift and pallet jack drivers will occasionally accidentally destroy goods, material or cause damage to your facility's infrastructure. With GoPal, all these costs are minimized.

HEAVY LOADED WITH BENEFITS

EASIER ADMINISTRATION

With a GoPal solution, you will never again need to plan shifts or call in replacements. Our collaborative robots will never call in sick or need a day off.

DATA & COMMUNICATION

With GoPal, you get vital data on your internal pallet transport, which can be used to optimize operations even further. The system also communicates directly with your ERP/WMS.



WIDE RANGE OF SAFE PALLET STATIONS

••••• PICK-UP, DELIVERY AND TRANSIT POINTS

GoPal stations are used as pick-up, delivery and transit points. Robotize offers a wide range of pallet stations, which allow for seamless integration in your facility - whether you need a conveyor belt interface or a non standard pick-up delivery height.

••••• SAFE HUMAN-ROBOT COLLABORATION

All GoPal Pallet stations are fully-approved for cooperation with humans. The GoPal solutions set new standards for safety in the automation of internal pallet transport, while contesting the concept that robots are unsafe or hard to handle.



**GOPAL
PALLET STATION**



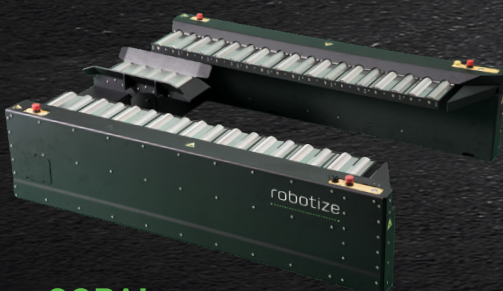
**GOPAL PALLET STATION
EXPANSION**



**GOPAL
CONVEYOR PALLET STATION (E)**



**GOPAL
POWER STATION**



**GOPAL
CONVEYOR PALLET STATION (EW)**



**GOPAL
ELEVATION PALLET STATION**

WIDE RANGE OF SAFE ACCESSORIES

••••• SAFE AND SIMPLE AUTOMATION

To further facilitate safe and simple automation, of your internal pallet transport, all our fully-approved accessories are designed and produced to work seamlessly with the GoPal robots and the Gocontrol order handling software. With GoPal you get a fully-integrated plug and play solution that is safe and simple - with no surprises and no hidden costs.



**GOPAL
AUX INTERFACE**



**GOPAL
CALL BUTTON (1)**



**GOPAL
CALL BUTTON (5)**



GOCONTROL



**GOPAL
PALLET SENSOR**



**GOPAL
WARNING BEACON**



GOPAL PALLET STATIONS

Pickup, delivery or transit points



GOPAL

Autonomous mobile robot

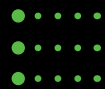
COMPLETE CONTROL - FOR MAXIMUM SAFETY AND SIMPLICITY

All the robots, call buttons and pallet stations in your GoPal solution are monitored and controlled by GoControl – the software at the heart of your system.



AIR TRAFFIC CONTROLLER

In a multi-robot system, GoControl maintains the optimal traffic flow for maximum safety and efficiency.



TAXI DISPATCH

GoControl receives and organizes all orders in the system and dispatches robots according to order priority.



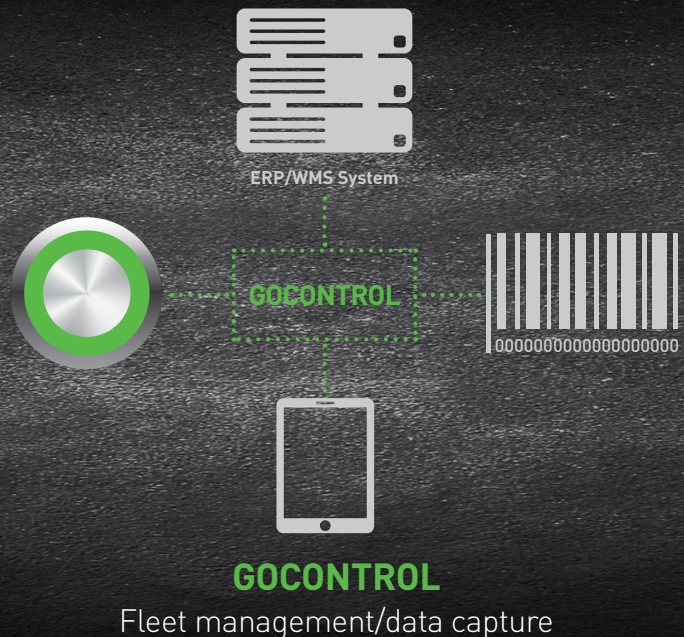
GOPAL AUX BOX

The GoPal Aux box adds 4 features, including wireless activation of automatic doors, robot deactivation in case of fire, automatic detection/transport ordering for pallets on pallet stations and hardwired interface for transport ordering from control devices such as local machines/PLCs.



SIMPLE INTERFACE AND DATA REPRESENTATION

GoControl captures and represents all system data (robot position on map, distance driven, pallets moved etc.). GoControl also interfaces with your ERP/WMS system.



DATA AND SPECS

GOPAL 400 / E24 / E24W / U24W

GoPal Model		400	E24	E24W	U24W
DIMENSIONS	Length (mm)	1400		1400	
	Width (mm)	860		1060	
	Height (mm)	315	340	340	
WEIGHT	Robots (Kg)	175	187	215	242
PERFORMANCE	Battery time	6-14 hours or ~ up to 20 km*			
	Maximum speed m/s (km/h)	2.4 (8.6)		2.0 (7.2)	
	Turning radius (from robot center) (mm)	850		1050	
LOAD	Maximum payload (kg)	425	1000	1200	1200
	Dimensions (max), L x B x H (mm)	1240 x 820 x 2400*		1240 x 1020 x 2400*	
PALLETS TYPE	Standard EUR pallets	x	x	x	
	Standard 1/2 EUR pallets	x	x	x	
	Industrial EUR pallets			x	
	US/UK pallets				x
	Other on inquiry				
RECOMMENDED LANE CONDITIONS	Operational lane width (mm)	2000		2200	
	High Speed lane width (mm)	3000		3200	
FLOOR REQUIREMENTS	Slope average (max)	Up to 10%*			
	Friction coefficient (min)	0.6			
	Maximum height of obstacles (mm)	4		3	

*depending on load conditions

SAFETY

- Laser scanners with 360° protection
- 4 x emergency stop buttons
- Mechanical bumper with 360° protection

ADDITIONAL OBSTACLE AVOIDANCE SENSORS

3 x 3D camera. Two in the front and one in the back of the robot

CHARGER INTERFACE

- Automatic docking interface in front of the robot
- Connector in back of the robot for manually charging

Due to a policy of continued product development Robotize reserves the right to alter or amend any specification without notice.

ELECTRICAL

- BatteryLiFePO4, 48 V
- Battery charge time45 min (full charge)
- Number of chargesAbout 5,000 charges

ENVIRONMENTAL

- Operating temperature-10°C – 45°C
- Humiditymax. 95% non-condensing

PALLET CONDITION

Undamaged, original strength maintained

WIFI CONNECTION

- WiFi802.11AC

ADVANCED INTERNAL LOGISTICS MADE SAFE AND SIMPLE

Robotize is a leading and innovative manufacturer of collaborative robotics solutions based in Lyngby, Denmark.

We are highly specialized in the design and manufacture of collaborative Self Driving Vehicles for pallet transport in factories and warehouses etc.

We are dedicated to explore the limits of our fully approved collaborative robots in order to give our customers all the benefits of automation with none of the hassle.

For more details on the GoPal solution:

ROBOTIZE.COM

ROBÓTICA ■



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