

# 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

## LOADED WITH BENEFITS

### 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.

### 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.

### 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.



# THE COMPLETE SOLUTION THAT HITS THE GROUND RUNNING

With GoPal, you get more than just a self-driving collaborative robot – you get the first and only fully approved system for automated pallet transport in factories and warehouses.

Since our robots are approved for immediate use in any facility without further onsite approvals, the complete system can be installed in just a few days without interrupting work in your facility.

With a GoPal solution from Robotize, you can start reaping all the benefits of automation almost immediately – either as part of your Industry 4.0 adoption plan or on its own.

## 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.



**GOPAL PALLET STATIONS**

Pickup, delivery or transit points



**GOPAL**

Autonomous mobile robot



**GOCONTROL**

Fleet management/data capture



# WIDE RANGE OF SAFE PALLET STATIONS

GoPal pallet stations are used as pick-up, delivery and transit points. Like our self-driving collaborative robots, our pallet stations are all fully approved for cooperation with humans.

We offer a wide range of pallet stations, which allows for seamless integration in your facility whether you need a conveyor belt interface or a non-standard pick-up/delivery height.

Call buttons for transport ordering can be incorporated in the solution completely independent of the pallet station.



## DATA AND SPECS GOPAL 400 / E24 / E24W

### DIMENSIONS

Length x Width x Height	1400 x 860 x 315 mm [400]
	1400 x 860 x 340 mm [E24]
	1400 x 1060 x 340 mm [E24W]
Robot weight	175 kg / 187 kg / 215 kg

### PERFORMANCE

Battery time	6-14 hours or ~ up to 20 km* *depending on load conditions
Maximum speed	2.4 m/s (8.6 km/h) [400] 2 m/s (7.2 km/h) [E24/E24W]
Turning radius (from robot center)	850 mm [400/E24] 1050 mm [E24W]

### 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

### ELECTRICAL

Battery	LiFePO4, 48 V
Battery charge time	45 min (full charge)
Number of charges	About 5,000 charges

### CHARGER INTERFACE

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

### WIFI CONNECTION

WIFI	802.11AC
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### ENVIRONMENTAL

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

### FLOOR REQUIREMENTS

Slope average (max)	Up to 10%* *depending on load conditions
Friction coefficient (min)	0.6
Maximum height of obstacles	4 mm / 4 mm / 3 mm

### LOAD

Maximum payload	425 kg / 1000 kg / 1200 kg
Length (max)	1240 mm
Width (max)	800 mm / 800 mm / 1000 mm
Height (max)	2400 mm

### PALLET TYPES

Standard EUR pallets	400 / E24 / E24W
Standard 1/2 EUR pallets	400 / E24 / E24W
Industrial EUR Pallets	E24W
Other on inquiry	

### PALLET CONDITION

Undamaged, original strength maintained (grade A or B)

### RECOMMENDED LANE CONDITIONS

Operational lane width	200 cm / 200 cm / 220 cm
High Speed lane width	300 cm / 300 cm / 320 cm

## 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.

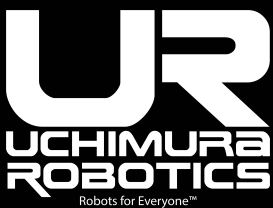
We are dedicated to explore the limits of our fully approved collaborative robots in order to give our customers all the benefits of automation with none of the hassle.

For more details on the GoPal solution:

**ROBOTIZE.COM**

Call us to talk or book a meeting:

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