

A NEW STANDARD FOR FLEXIBILITY AND SAFETY

GoPal® is a comprehensive range of fully CEapproved solutions for automating internal pallet transport in factories and warehouses.

Our Autonomous Mobile Robots (AMRs) are designed and approved for safe collaboration with humans and support a wide range of pallet types and payloads.

The GoPal solution provides a fully integrated solution with robots, pallet stations and software, which can be deployed in a matter of days and with only minor changes to existing infrastructure.

THE GOPAL SAFETY PHILOSOPHY IS INTEGRATED IN ALL OUR SOLUTIONS



FAST ROI

The GoPal solution will typically begin saving you money within 4-18 months after deployment - depending on salary levels and the shift plan used in your facility.

MAXIMIZE SAFETY

Deploying AMRs both reduces manual labor as well as reduces accidents caused by forklifts and pallet jacks. The GoPal solution will simply make your workplace safer.

MINIMIZE DAMAGES

On occasion, forklift and pallet jack drivers may accidentally destroy goods, materials or even damage parts of your infrastructure. With GoPal, all these costs are minimized.

HEAVILY LOADED WITH BENEFITS

EASY ADMINISTRATION

GoPal operates as a single shift - 24/7/365. Never again will you have to plan shifts or call-in replacements. Our AMRs never call-in sick or need a day off.

DATA & COMMUNICATION

GoPal provides you with a steady stream of valuable data to enable you to continuously optimize your internal pallet operations. GoPal can also be integrated with your ERP/WMS for advanced operations.



WIDE RANGE OF 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 require a conveyor belt interface or a non-standard pick-up delivery height.

• · · · · SAFE HUMAN-ROBOT COLLABORATION

POWER STATION

All GoPal pallet stations are fully approved for collaboration with humans. The GoPal solutions set new standards for safety in the automation of internal pallet transport, while challenging the notion that robots are unsafe or difficult to handle.



ELEVATION PALLET STATION

WIDE RANGE OF ACCESSORIES

SAFE AND SIMPLE AUTOMATION

To further facilitate the safe and simple automation of your internal pallet transport, all our accessories are designed, produced and approved to work seamlessly with our AMRs and our GoControl software. The GoPal is a fully integrated plug-and-play solution that is safe and simple - with no surprises or hidden costs.



GOPAL® AUX INTERFACE



GOPAL® CALL BUTTON (X1)



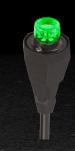
GOPAL® CALL BUTTON (X5)



SOFTWARE



GOPAL® PALLET SENSOR



GOPAL® WARNING BEACON





GOPAL® PALLET STATIONS

- FOR MAXIMUM SAFETY AND SIMPLICITY

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



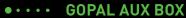
AIR TRAFFIC CONTROLLER

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



GoControl receives and organizes all orders in the system and dispatches

robots according to order priority.



The GoPal Aux box adds four 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 PRESENTATION

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



GOCONTROL

Fleet management/data capture

TECHNICAL SPECIFICATIONS GOPAL® 400 / E24 / E24W / U24W

GoPal Model		400	E24	E24W	U24W
	Length (mm)	1400		1400	
DIMENSIONS	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)		2,2 (7,9)	
	Turning radius (from robot center) (mm)	950		1000	
LOAD	Maximum payload incl. pallet (kg)	425	1025	1230	1230
	Dimensions (max.), L x W x H (mm)	1240 x 820 x 2400*		1240 x 1020 x 2400*	
PALLET TYPES	Standard Euro pallets	Х	Χ	Х	
	Standard half-Euro pallets	Χ	Χ	Х	
	Industrial Euro pallets			Х	
	US/UK pallets				Χ
	Other/custom pallets	On inquiry			
LANE CONDITIONS	Minimum lane width (mm)	1200		1400	
	Recommended lane width (mm)	2100		2300	
	High speed lane width (mm)	2800		3000	
FLOOR REQUIREMENTS	Slope average (max.)	Near-level (2%)			
	Friction coefficient (min.)	0,60			
	Maximum edge height (mm)	4		3	

^{*}Depends on load conditions.

5	Δ	F	E	Т	Υ	
-	~	•	-	•		

Laser scanners (360° protection)

Mechanical bumper (360° protection)

4 x emergency stop buttons

BATTERY

Type / voltage

LiFePO₄ / 48 V

Charge time

45 min. (full charge)

Number of charges

About 5.000

ADDITIONAL OBSTACLE AVOIDANCE SENSORS

3 x 3D cameras (two front facing and one rear facing)

ENVIRONMENTAL

Operating temperature

-10°C to +45°C

Humidity (max.)

95% (non-condensing)

CHARGER INTERFACE

Automatic docking interface (at robot front)

Connector for manually charging (at robot rear)

PALLET CONDITION

Undamaged, original strength maintained

COMMUNICATION

Wi-Fi

802.11AC

Due to a policy of continued product development, Robotize reserves the right to change any specification without notice.

ADVANCED INTRALOGISTICS MADE SIMPLE, SAFE AND SCALABLE

Robotize is a leading manufacturer of mobile and collaborative robotics solutions based just north of Copenhagen in Lyngby, Denmark.

We specialize in the design and manufacture of advanced collaborative Autonomous Mobile Robots (AMRs) for internal pallet transport in factories and warehouses.

We are dedicated to exploring the limits of our fully approved robots in order to provide our customers with all the benefits of automation.

For more information about the GoPal® solution, please visit

WWW.ROBOTIZE.COM

Or call us on

+45 3080 9070

