



mr MOBILE ROBOTS



ADVANCED INTRALOGISTICS



BY UNITED ROBOTICS GROUP



THE AUTONOMOUS PRODUCTION LOGISTICS INTEGRATOR



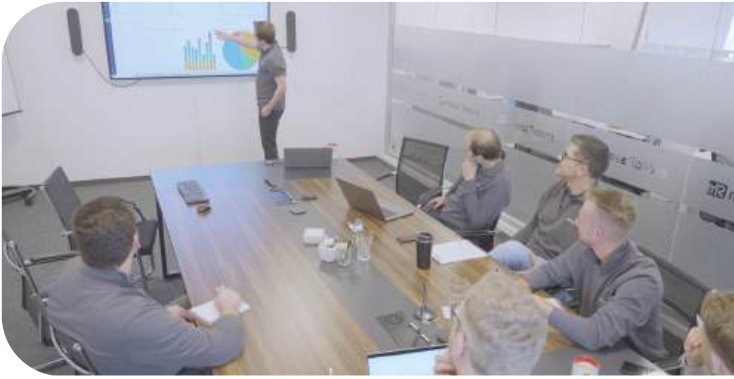
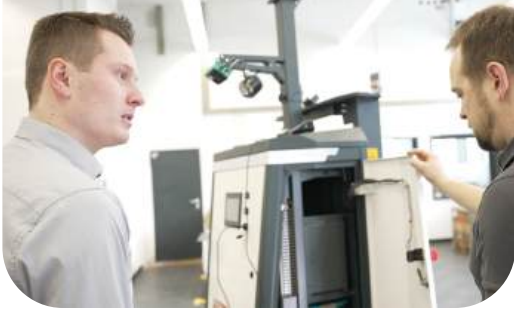
YOUR SPECIALISTS FOR HUMAN-ROBOT-COLLABORATION (HRC)

MAN. ROBOTICS. EFFICIENCY. CROSS-INDUSTRY PRODUCTION LOGISTICS 4.0

Where can automation meaningfully support your employees in the production process, improve production conditions ergonomically and lead a perfectly coordinated team of humans and robotics to higher efficiency?

Our mission at mR MOBILE ROBOTS is the forward-looking optimization and flexibilization of your production logistics. In order to safeguard valuable human labour force and increase the efficiency of your production under increasing competitive pressure, we have specialized as an integrator in the cross-industry automation of your intralogistics processes.

Using automated guided vehicles (AGVs), autonomous mobile robots (AMRs) and mobile Cobot Palletizers, we individually cover your automation needs for autonomous production logistics in industrial environments - across all industry sectors. By doing this, we also meet the high hygiene requirements of the food & beverage industry or the healthcare & chemical/pharmaceutical sectors.



SERVING YOUR PRODUCTION

PLUG & PALLETIZE

MOBILE & FLEXIBLE

AGV COMPATIBLE

3 COBOT VERSIONS

powered by
UNIVERSAL ROBOTS

**CE APPROVED & CERTIFIED
INDUSTRIAL APPLICATION**



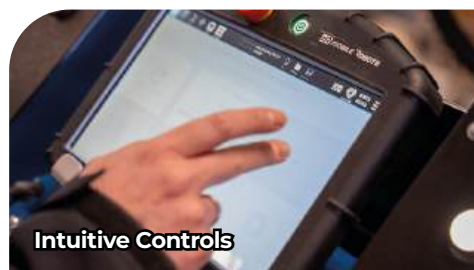
MobilePalletizing

PLUG & PRODUCE AUTOMATION FOR YOUR PALLETIZING READY FOR IMMEDIATE USE IN INDUSTRY, TRADE & SERVICE

Automate burdensome tasks related to packaging or confectioning. Thanks to the integrated collaborative lightweight robot, our Cobot Palletizers do not require a bulky protective housing and their compactness requires little space only. The smart design allows for changing locations in your production as required, while the programming-free, intuitive operation enables quick deployment.

Thanks to the modular design of the three basic versions with payloads of up to 12.5 kg, 20 kg and 30 kg (Universal Robots), the system can be configured individually with optional accessories and used in a wide variety of industries, e. g. in areas such as follow:

- **FOOD & BEVERAGE** • **PHARMACEUTICALS** • **AUTOMOTIVE**
- **CONSUMER GOODS** • **LOGISTICS ... and many others.**



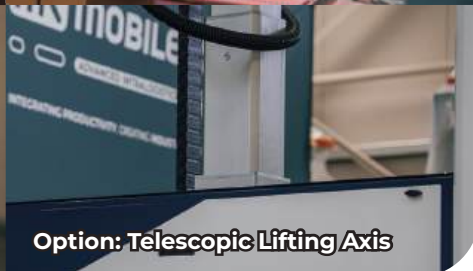
Intuitive Controls



Config. Gripper with tactile Bumper



Option: Conveyor at choice



Option: Telescopic Lifting Axis

FEATURES, FACTS & BENEFITS YOUR EFFICIENCY ADDED VALUES

• **EFFECTIVE & SUSTAINABLE**

Complete automation of physically strongly demanding manual activities

• **COMPACT & INTEGRATIVE**

Smooth integration into existing process layouts for optimal workflow

• **MOBILE & FLEXIBLE**

Compact design enables change of location as required

• **COLLABORATIVE & SAFE**

CE-certified HRC application with high acceptance by employees

• **INDIVIDUALLY CUSTOMIZABLE**

Versatile configurable & optionally expandable - e.g. freely selectable end-of-arm tool for single or multiple handling, lifting axis, conveyor or safety scanner

• **EASE OF USE**

Intuitive control, user-friendly operation

ALL INFOS ON THE PALLETIZERS & TECHNICAL DATA ONLINE:



FREE PACK PATTERNS

OFFLINE PROCESSING

DRAG & DROP EDIT

FLEXIBLE STACKING:

With an intuitive Palletizing Software you can simply insert intermediate layers and vary your palletizing pattern layer by layer as required.

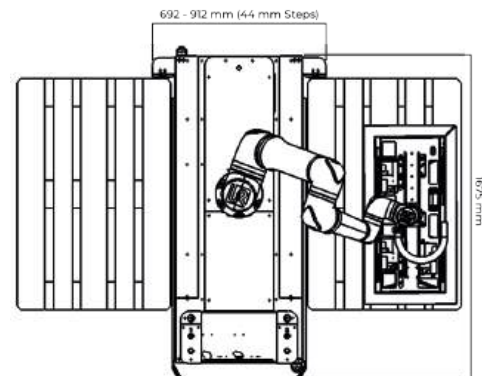
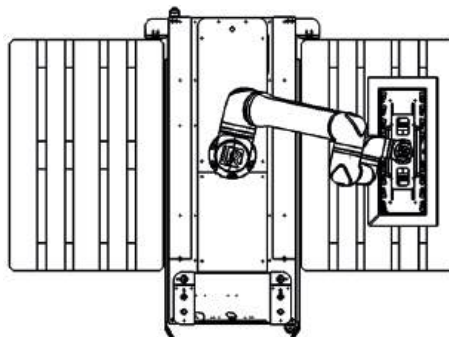
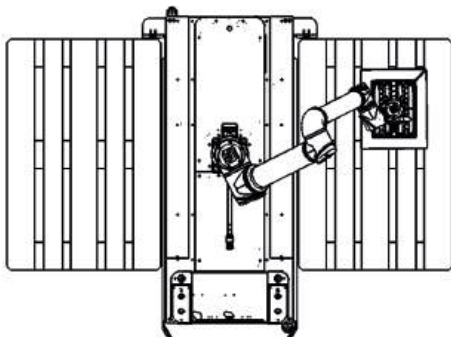
CUSTOMIZABLE PALLETIZING FOR YOUR FLEXIBLE WORKFLOW

TECHNICAL DATA

BASIC TYPE UR 10 (12.5 kg payload)

BASIC TYPE UR 20 (20 kg payload)

BASIC TYPE UR 30 (30 kg payload)



Pallet Bays: 2

Power Supply: 400V, 50 Hz
16A

Power Consumption (max): Dependent on robot type & optional lifting axis: UR 20 & UR 30 1,020W; UR 10 885W (incl. lifting axis +480W)

Compressed Air: 6 bar (consumption resp. to gripper)

Interfaces: I/O
(freely available, if no conveyor is combined) MODBUS TCP
Emergency-Stop (In & Out)
2x Digital Input; 2x Digital Output
1x Analogue Output
Power (230V or 400V)

Safety: KAT. 3 PId, CE conformity
Following TS 15066
Power & Force Limitation (EN ISO 10218-1)
Tactile Safety Contact Buffer (EOA)

Stacking Heights (max): Up to 2,400 mm (UR 20 with lifting axis)

Cycle Speed: Dependent on product weight, pack pattern & pallet type 4-36 packs/min.

SCOPE OF DELIVERY

- 1x Compact Palletizing Unit with switch cabinet & control desk
- 1x Cobot Universal Robots (at choice UR 10, UR 20 or UR 30)
- 1x End-of-Arm Tool at choice (e.g. soft areal vacuum gripper or mechanical gripper)
- 1x Tactile Safety Contact Buffer for gripper housing
- 1x Set flexible cable/hose guide for robot
- 1x Palletizing Software for free packing patterns & sort confectioning

OPTIONS

Customized or adjustable multiple grippers; conveyor (basic or accumulation roller version); telescopic lifting axis; image processing; machine signalling lights; safety scanner; OPC UA or Profinet interface; special stainless steel construction



DRIVERLESS TRANSPORT SYSTEMS : PALLET TRANSPORTS

AUTONOMOUS PALLET & SMALL PARTS TRANSPORTERS DRIVERLESS TRANSPORT ROBOTS WITH PAYLOADS UP TO 1.3 T

Rely on autonomous mobile robots for your internal pallet & small parts transport; your employees certainly have more important things to do than take care of the flow of goods and materials.

Our AMRs & AGVs with easy-to-use fleet management are safe for your staff, work contactless, save resources and are tailored for your specific requirements, your operational processes and your individual plant layout.

Create new economic potentials in your production now - through customized and efficient automation of your intralogistics processes!

OUR FULL PROGRAMME & ALL DETAILS:

WWW.MOBILE-ROBOTS.DE 

FEATURES, FACTS & BENEFITS YOUR EFFICIENCY ADDED VALUES

- INDIVIDUALLY MANUFACTURER INDEPENDENT CUSTOMIZATION
- EASY HANDLING
- HIGH SYSTEM FLEXIBILITY & EXPANDABILITY
- COLLABORATIVE SAFETY
- RELIABLE OPERATION
- REAL-TIME SYSTEM STATUS
- INTRALOGISTICS OPTIMIZATION



NIPPER PALLETTRUCK V4

Forked AGV
max. 1,200 kg



WEWO AGV PALLETMOVER

Forked AGV
max. 1,300 kg / 2,500 mm stroke

PORTFOLIO EXAMPLES



ROBOTIZE GOPAL

AMR System with
Lifting & Transfer Stations
500 - 1,200 kg



AUTONOMOUS INTRALOGISTICS : SMALL PARTS & SLC TRANSPORTS

OUR INTEGRATOR SERVICES FOR YOU



**INDIVIDUAL CONSULTING,
SAFETY & CONCEPTION**



TEST INSTALLATION



FLEET MANAGEMENT



**COMMISSIONING,
MAINTENANCE & SERVICE**



**PERSONNEL TRAININGS &
USER ADVISORY**

MOBILE INDUSTRIAL ROBOTS MIR 100 & MIR 250

AMR Systems
max. 250 kg



ROBOTIZE GOPAL P35

AMR System
max. 250 kg

AGV/AMR & ACCESSORIES - FOR CROSS-INDUSTRIAL USE

• AUTOMOTIVE • ENGINEERING • ELECTRONICS • CONSUMER GOODS
• FOOD & BEVERAGE • HEALTHCARE • PHARMACEUTICALS • PRINTING

GET TO KNOW US!

As a manufacturer-independent integrator of autonomous transport systems we supply the industry-adapted and customized solution for the automation of your intralogistics tasks in industry, services, trade and commerce.

Get your company's logistics fit for the future with us now!



Gewerbepark Grünewald 1 D - 58540 Meinerzhagen
P. +49 (0)2354 907 25-0 / mail@mobile-robots.de

CREATING INDUSTRIAL ENVIRONMENTS OF THE FUTURE. TODAY.