
PROVIDING INTELLIGENT ROBOTICS



Our Vision

True Artificial Intelligence for Industrial Robotics

robominds pursues a central goal: as a pioneer of true artificial intelligence to usher in a new era of robotics.

As the market leader for AI robotics, we are working on a globally unique industrial AI control system for robots. Flexible usability and ease of use, that allows everyone to program industrial robots and use them easily, efficiently and flexibly. Artificial intelligence currently plays a decisive role in the flexible operation of machinery and equipment, and especially in the near future, to reduce costs for integration and adaptation.

Artificial intelligence currently plays a decisive role in the flexible operation of machines and systems, and will do so especially in the near future, in order to reduce costs for integration and adaptation. We use artificial intelligence to enable industrial robots to work automatically and autonomously, e.g. in production or logistics processes, and thus optimize them for flexible and reliable use. The potential applications are diverse and far from exhausted. Our goal is to position and establish ourselves as the **global market leader for AI robotics**.

Robotics must be easy.

Be universal.

Simple and intuitive.

Intelligent robotics.

Robotics for the user.

For the human being.

For everyone. robominds.



„If someone tells us things are impossible, those are their limits - not ours.“

Robotics expertise with a holistic perspective

By providing the AI robot operating system and the best AI skills, robominds elevates systems to the higher process level. This makes it possible for everyone to use robots in their use cases and applications. Through this vision, we are able to offer our partners and customers our range of products, i.e. software and hardware products, as well as innovative complete robot solutions.

At robominds, IT, AI and hardware specialists are united by a passion for robotics - and a desire for technical challenges. Together, we are taking robotics to a new level, towards true artificial intelligence and thus true automation, implementable and affordable for any size of company. The patented technology allows robots to be multifunctional and can be flexibly implemented on robot hardware regardless of the manufacturer.

robobrain.vision 2.0

Faster, smarter, more industrialized

Hand-eye coordination is one of the most complex challenges in robotics. What humans learn naturally and instinctively in the first year of life is one of the biggest challenges in automation: seeing, recognizing and grasping objects. Using artificial intelligence and elaborate vision algorithms, the award-winning **robobrain.vision** smart picking solution addresses precisely this challenge. The camera, which is mounted on the robot arm or above the station, detects any objects to be picked - unlearned and coordinate-independent - and independently identifies optimal picking points: the smart picking system of the future.

- Flexible and easy-to-use
- Overlay of objects possible
- Separation of chaotically stored bulk material
- Modular expandable through various AI skills
- Industrialized 2D/3D-camera
- without any pre-teaching



Certified for Universal Robots - integrable for all manufacturers.

The robominds plugin is certified by and for Universal Robots. With robots of the manufacturer, **robobrain.vision** can be used immediately without any specific integration work.

Thanks to simple interfaces, cooperation with other manufacturers such as Kuka or Fanuc can also be realized without any problems.



Technical Data:

Height: 151 mm x 44 mm x 34 mm

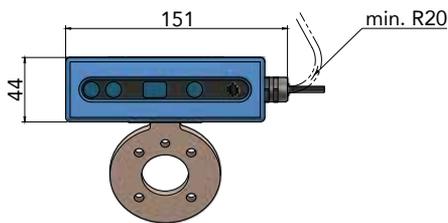
Weight: 400g (camera)

Conformity: CE & Laser Class 1

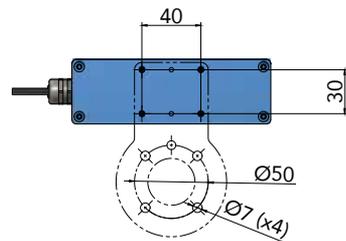
Connection from camera to PC: USB 3.0, lenght standard cable 10m

3D-measuring method: 2D/3D camera: 3D image (depth image) is made with Active IR Stereo; 2D-image with a RGB-camera

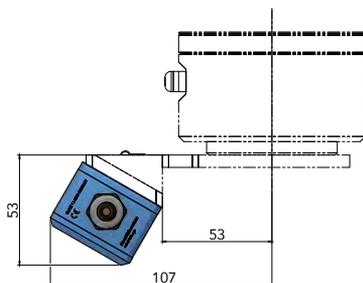
outer dimensions camera



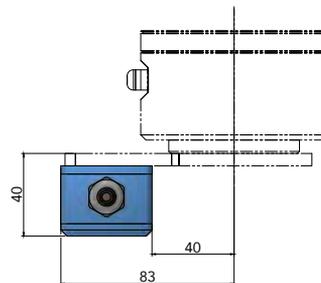
hole pattern (ISO 9409-1-50-4-M6)



camera flange 30°



camera flange 0°



The „All-in-A-Box“- solution

„Ready to use“ in just 5 steps

The smart setup of **robobrain.vision** makes it possible to use it unaffected by the brand of the robot or gripper. The multi-compatible interfaces enable the robot to grip the object directly, both via the manufacturer's integrated solution and via the robomind's robotic controller.

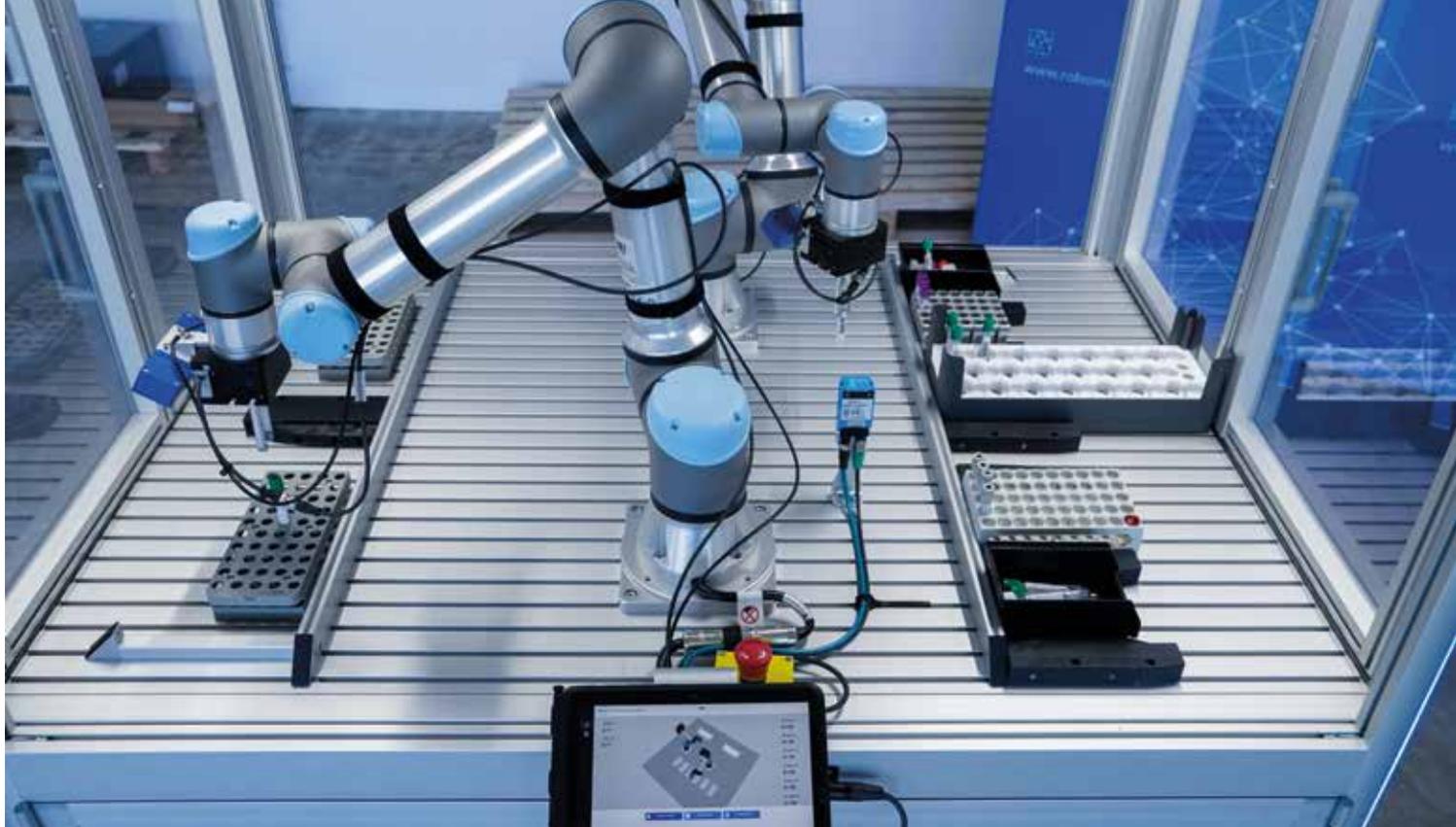
The set-up of robobrain.vision is as easy as possible: as an **all-in-a-box package**, software and camera are delivered with a quick start guide in the form of a video tutorial. Everything you need to get started.

Unboxing robobrain.vision



1. Unpack the components
2. Configure robobrain.vision
3. Calibrate the camera
4. Define the workspace
5. Ready for the first pick





robobrain® Applications

Discover our robobrain® Applications

Stable automation & ready-to-use - that's what our robobrain® applications stand for. Get an overview of our smart skills & applications that can be used to automate a wide range of processes. Here is a selection:

Item Picking / Order picking

Handling a high variety products in warehouses.

Avg. recognition time	0,5 sec.
First pick success rate	97,44 %
Picks per hour	up to 1.000 picks / hour

Bag picking

Handling bags and packaged products for logistics.

Avg. recognition time	0,5 sec.
First pick success rate	92,56 %
Picks per hour	up to 845 picks / hour

KLT & Load Carrier Handling

Automated handling and palettizing of KLTs.

Avg. recognition time	1,0 sec.
First pick success rate	99,20 %

Box picking

High-Speed box handling for pharmacies and more.

Avg. recognition time	0,5 sec.
First pick success rate	93,79 %
Picks per hour	up to 867 picks / hour



Discover now!

Get additional insights such as KPIs or application videos & discover more solution stories on our robobrain® Applications Platform.

Solution Stories



AI automates AutoStore® - robominds and HÖRMANN Logistik

(R)Evolution in intralogistics: For and with our partner HÖRMANN Logistics, we fully intelligently automated its small parts warehouse. Together with the intelligent warehouse management system HILIS® from HÖRMANN Logistics and modern hardware components, the **robobrain®** creates a system that enables customized pick-by-robot commissioning where the manual bin-picking prevailed.

Next level **warehouse automation**, flexibly adaptable for various sections and industries - from pharma to fashion to returns handling.

Integrated software-components:

NEUROS

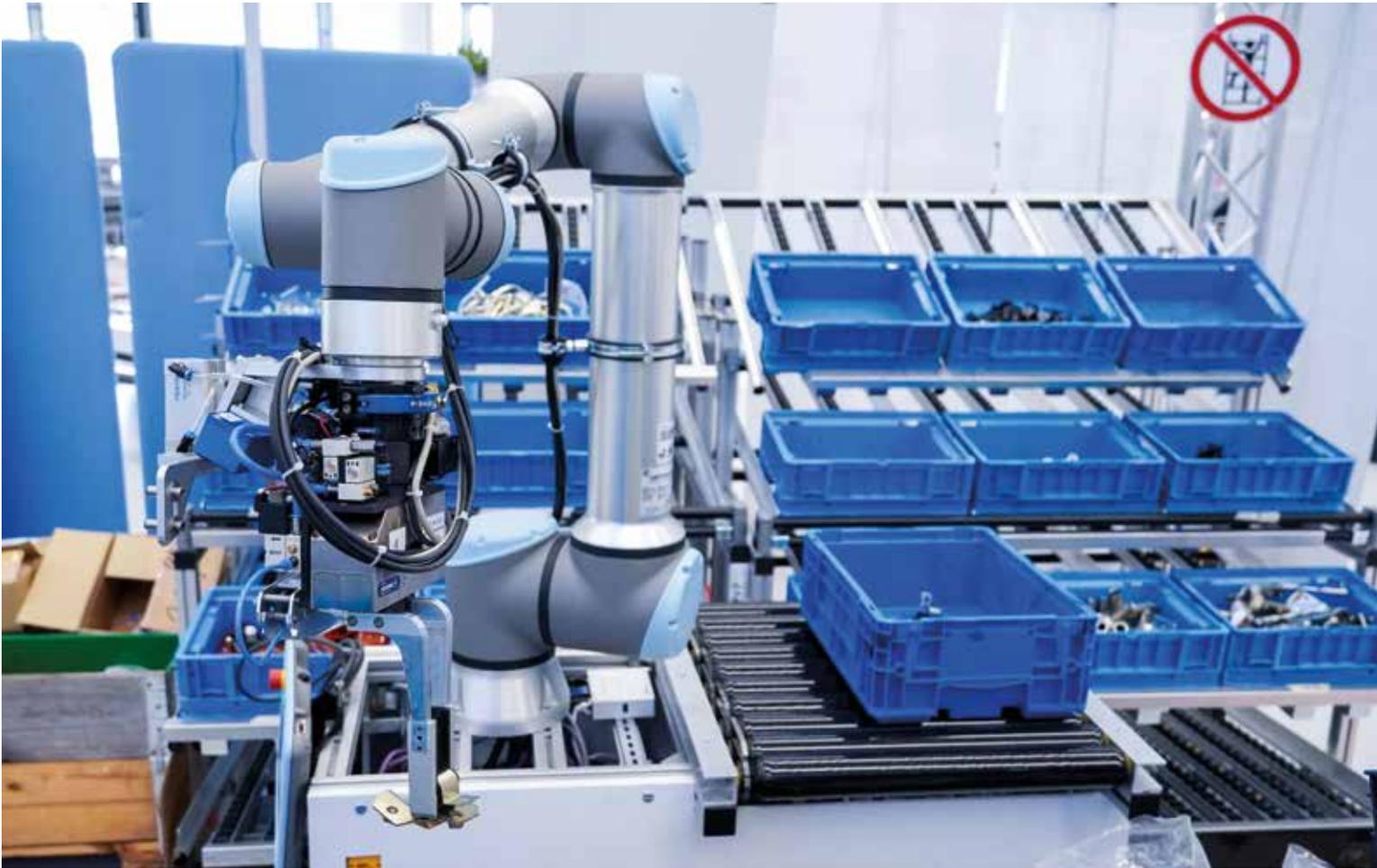
Item Picking
Skill

Bag Picking
Skill

Box Picking
Skill

Discover now!





Mobile Kitbot - smart picking for the automotive industry

robominds is setting new benchmarks in logistics with its **mobile kitbot**: A mobile robot is picking completely autonomously in the rack aisle of our partner Daimler Trucks.

A robot arm, equipped with camera and tactile sensor, operates on a mobile platform and is able to pick different parts from boxes on both sides from the extended rack construction. Fully autonomous, thanks to true artificial intelligence in the form of NEUROS and robominds AI skills.

Integrated software-components:



Discover now!



About robominds

Smart robotics. For everyone.

We are passionate about robotics innovations that will move you forward. Soft- and hardware experts are united by their passion for robotics - and their desire for technical challenges. We don't ask "Does it work?" but "How does it work?". In any case, the answer is: with a powerful, interdisciplinary team.

#wearerobominds

As **market leader** in AI robotics, we aim to change the status quo in robotics. Since our founding in 2016, we have been working on a globally unique industrial AI control systems for robots. The plan is to further expand our leadership role through strong growth, develop additional business areas, and further strengthen our partner network.

Technologically, the aim is to extend the lead through strong research and development work. Existing **AI skills** already perform a wide range of tasks; we want to continue to steadily expand these capabilities. The big goal is to bring the world's first AI robotics OS to market.



robominds.laboratories

True AI for your products

We make robotics smart. Really smart.

This is only possible with the help of true artificial intelligence, which is in turn only available with true expertise. And we don't want to keep our expertise behind closed doors. Our innovative power knows no (corporate) boundaries. From AI workshops to full robotics solutions - anything is possible. In the **robominds.laboratories**, pain points become ideas and ideas become innovations.

Ready? Reach out!



Curious?
Do not hesitate!

If you are interested or have any questions just contact us:

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