



Product catalog

Automation from a single source
The Industrial Robot Platform

The lowest total cost of ownership on the market: What makes our **products** unique.

Maximum cost-effectiveness in the robotics industry



Minimal purchase and maintenance costs with a 6-year warranty on the drive train.



Maximum service life with planetary gearboxes and optimum efficiency thanks to the coupling gearbox.

Maximum flexibility in production



Quick setup, programming, and operation without coding expertise.



Central automation operating system with AI support at all software levels.

Maximum efficiency in project planning



Less effort thanks to preconfigured robot accessories and automation modules.



No additional project planning costs thanks to CE-certified (Conformité Européenne, or European Conformity) automation modules.

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A Solution Kit can be commissioned, programmed and operated quickly and easily without any special prior knowledge.

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Intelligent robots

Our 6-axis industrial robots for use in harsh environments with reaches of 600 to 1500 millimeters (23.6 to 59 inches) and maximum payloads of 3–16 kilograms (6.6–35.3 pounds).

Pages 4–7



Panel and control

Control unit with high-resolution operating device and a wide range of interfaces for planning automation projects without an additional PLC.

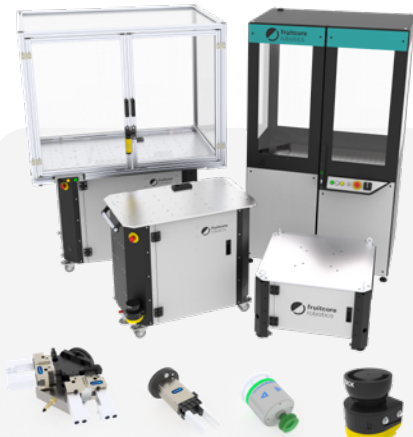
Pages 8–9



Software

Central control software with AI Copilot and seamless integration of peripheral devices for efficient planning, programming, and operation of automation solutions.

Pages 10–15



Component Kits

Seamless integration of robot accessories thanks to mechanical adapters, plug-in connections, defined interfaces and software plug-ins.



Solution Kits

CE-certified automation modules tailored specifically to your application with completed risk assessment for immediate use.



Services

Individual support on an equal footing, including feasibility analyses and comprehensive expert support at the application level.

HORST. The smart industrial robot


Maximum efficiency and flexibility

State-of-the-art technology meets intuitive operation –
low-maintenance, powerful and ready for use around the clock.





Plug-and-produce: Ready to go.
Fast setup, flexible integration.



Best performance with unique drive technology

For our industrial robots, we rely on proven industrial planetary gearboxes combined with patented coupling gears and optimized through machine learning for outstanding performance.

Built for industry: protection class IP65 and IP54

Swarf, lubricants, and coolants are no problem thanks to smart construction. The robust design of HORST allows for use in harsh environments.

Guaranteed durability with high precision

Maintenance-free and low-wear gear units with a service life of more than 50,000 hours. High process reliability thanks to consistent precision over the entire service life.

Fastest setup and programming



What you get with a HORST robot:

1. Industrial robot HORST600, HORST1000 G2 or HORST1500 G2
2. Compact Control unit
3. Ergonomic panel
4. Central automation software for operation, programming and process control + **AI Copilot**



	HORST600	HORST1000 G2	HORST1500 G2
Axes	6	6	6
Reach	584 mm	1141 mm	1485 mm
Load capacity	3 kg	16 kg	15 kg
Repeat accuracy	± 0,05 mm	± 0,05 mm	± 0,05 mm
Protection class	IP54	IP65 (manual axes 4,5,6) IP54 (remaining structure)	IP65 (manual axes 4,5,6) IP54 (remaining structure)
Weight	30 kg	105 kg	110 kg

Compact control unit with ergonomic control panel

Our industrial robots come with a control unit with extensive industrial interfaces and a lightweight, IP54-certified control panel with a high-resolution 2.5K touch display. Use the powerful Control controller to implement numerous applications without the need for a higher-level controller such as a PLC. You can program ergonomically and conveniently via the panel thanks to the adjustable handles. Either on the display itself or with your mouse and keyboard.



Your advantages at a glance



Automate without an external PLC

Integrate peripheral devices centrally and easily. Extensive interfaces allow you to implement complete automation systems without expensive higher-level control systems.



Maximum flexibility and seamless integration

If you use an external control system, you can easily integrate Control via Profinet and Modbus. Extensive external control via XML-RPC is also possible.



Convenient operation

High-contrast, high-resolution 13.3-inch touch display with 2560 x 1600 pixel resolution and IP54 protection class. Present your entire process clearly and animated in 3D.



Quick and easy to set up

The compact Control controller is easy to move and position. It is powered by standard 230V household electricity, so no high-voltage power supply is required.

Panel – Technical data

Dimensions	330 mm x 255 mm x 95 mm
Protection class	IP54
Control elements	Safety Emergency stop; two 3-point enable buttons
Operation	Ambidextrous operation via two enable buttons and adjustable handles
Display	13.3" touchscreen (2560 x 1600 – 2.5 K)
USB-Ports	2 USB 3.0 ports for the use of mouse and keyboard
Cabling	5 m length



Control – Technical data

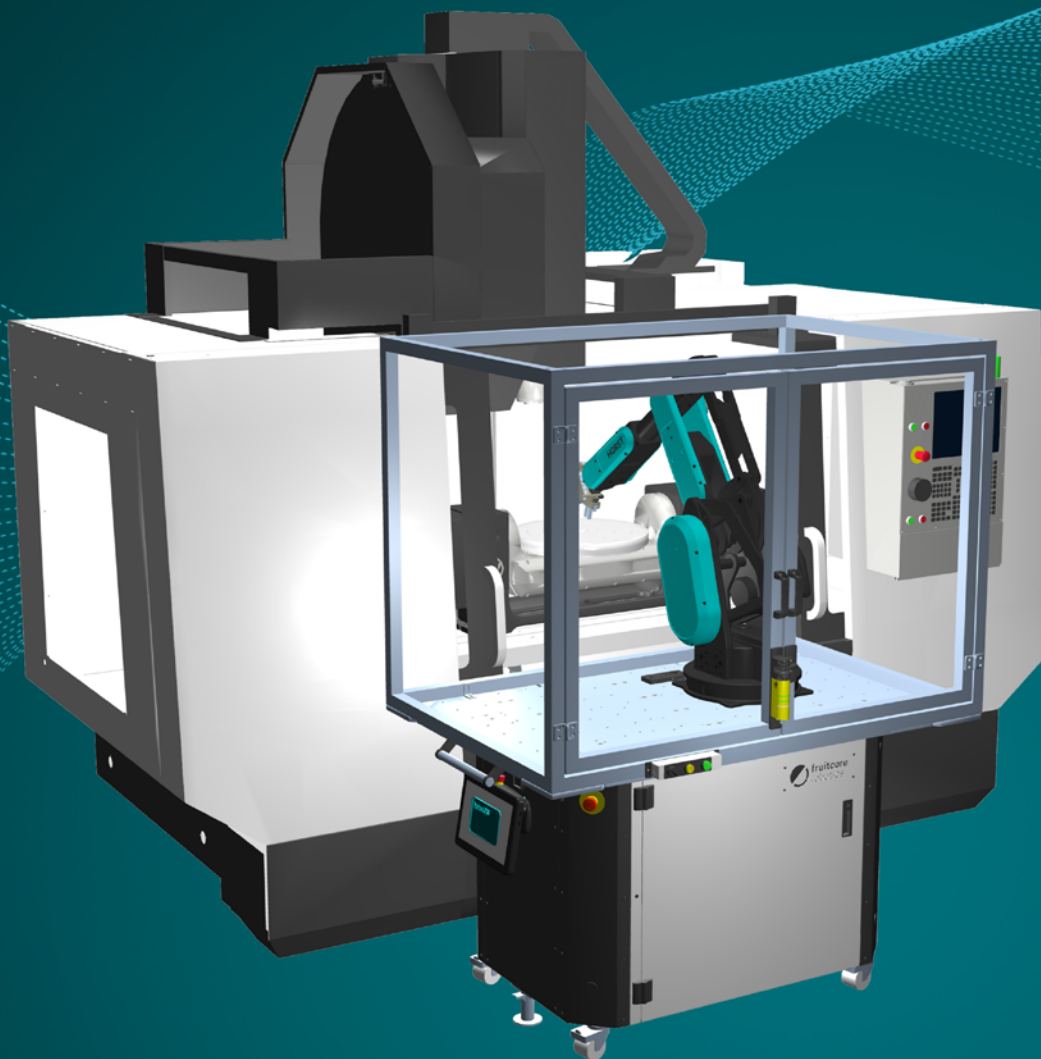
Dimensions	313 mm x 174 mm x 446 mm
Weight	10 kg
Protection class	IP20
Compatibility	Standard for all robot models
Power supply	230 V AC, 50-60 Hz, typical: 250-500 W (depending on robot size)
Number of I/O	20 inputs 18 outputs (24 V / 7 A) 2 inputs 2 outputs (24 V / 2.5 A) on the robot flange
Number of safety I/Os	6 inputs 8 outputs according to DIN EN ISO 10218-1; Performance Level d (configurable)
Communication	TCP/IP 100-Mbit/s Ethernet, XML-RPC primary interface (optionally available)
Field buses	Profinet, Modbus (optionally available)
USB-Ports	2 USB 3.0 ports
Cabling	3 m (9.8 ft) length between robot and Control unit



Setup. Programming. Control.

Intuitive all-in-one operating system

horstOS is more than just robot software. Our operating system uniquely combines the setup, programming, and control of your application on a central interface.

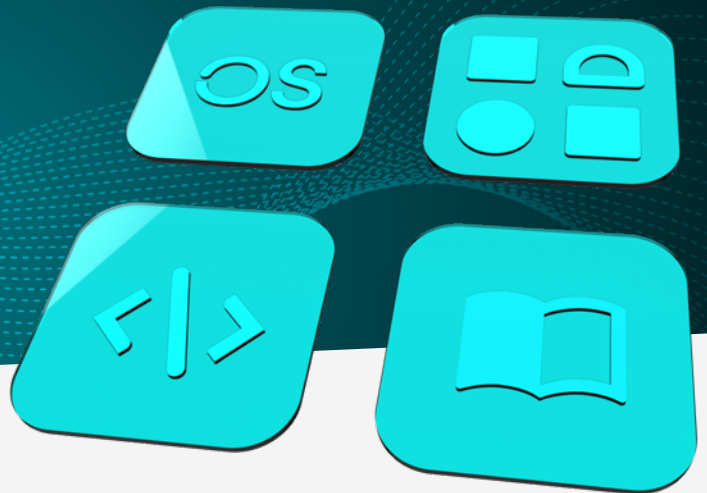




Simple, fast and centralized.
One operating system for all your tasks.

Your central interface for all software areas

Unique on the market: Program directly on the control panel using a realistic 3D world with a virtual robot twin. This allows you to implement even complex processes easily and without any prior knowledge. The intuitive graphical user interface of horstOS also makes it easier to control the processes and you can seamlessly integrate all components in a clear way thanks to 3D visualization. The operating system adapts individually to industry-specific requirements and optimizes processes for maximum efficiency and user-friendliness.



Your advantages at a glance



Easy programming

Create programs intuitively – graphically or textually. 3D simulations and digital twins enable fast, error-free implementation for beginners and professionals alike.



Flexible integration

Integrate components regardless of manufacturer and manage everything via a central interface. Predefined standards simplify setup and optimize your processes.



Efficient control

Customize the user interface to suit different operators to ensure intuitive operation and reduce operating errors.

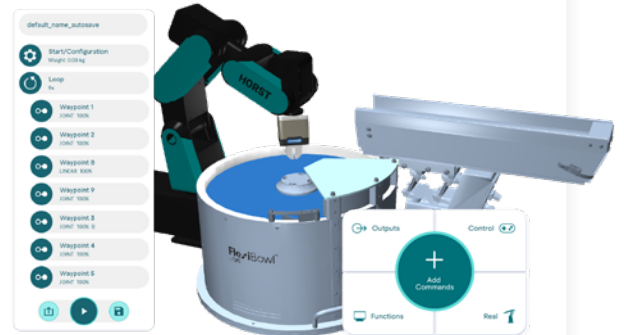


Intelligent support

Let the AI Copilot assist you with setup, programming, and operation. Potential errors are detected early and thus avoided. Real-time support ensures uninterrupted use.

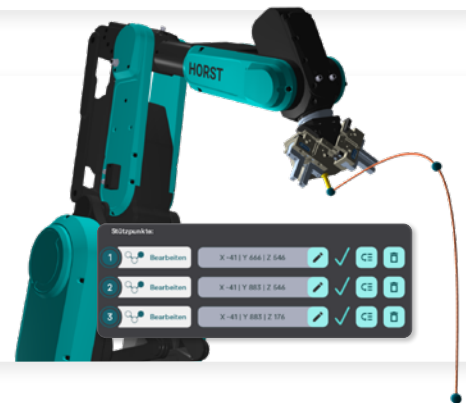
Always included: Digital Robot Features

The Digital Robot Features are your basis for an easy start in automation. Program either graphically or textually. Simplify your setup easier with a digital twin and simulations. Integrate 3D objects and manage 3D worlds for planning complex processes.



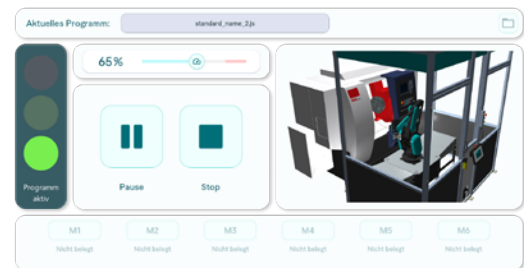
Advanced Graphical Features

Even more flexibility and process reliability: Program palletizing applications and complex paths graphically, set up workspace limits and use user-defined coordinate systems.



Advanced Automation Features

These features allow you to dispense with an external PLC. Component configuration and clear process control are centralized via the horstOS interface.



AI Features

It provides support without waiting times via calls and emails, assists with programming, and helps prevent errors from occurring in the first place.



Advanced Interfaces



Unique for industrial robots: an AI Copilot for all phases

Save time and money with the virtual assistant

Automate much faster and cheaper



With the world's first AI assistant, you can access expert knowledge in real time and directly on the robot control panel without having to acquire automation knowledge yourself.

Context-sensitive support for your needs



Master even complex challenges with ease thanks to suggestions, instructions, and code snippets from the AI Copilot that are tailored to your tasks and goals.

Virtual assistant to support you every step of the way



The AI Copilot supports you with device integration and commissioning. It accompanies your programming with code blocks and actively helps with error analysis and troubleshooting.



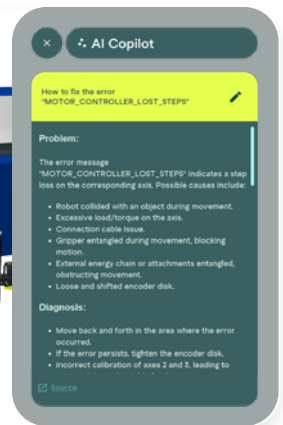
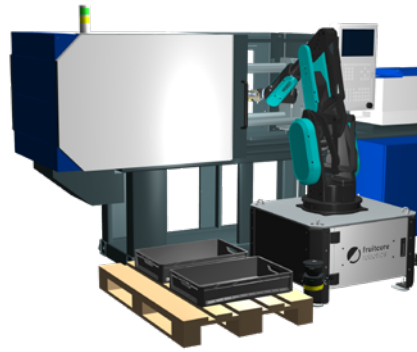
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Automation helps us improve quality while remaining flexible to different customer needs. The system is exactly what we needed.

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Troubleshooting made easy

The AI Copilot goes beyond simple error detection – it saves you time and frustrates you less. It analyzes your project settings, program logic, and hardware configurations. This enables it to identify the causes of problems and offer you useful recommendations and solutions.



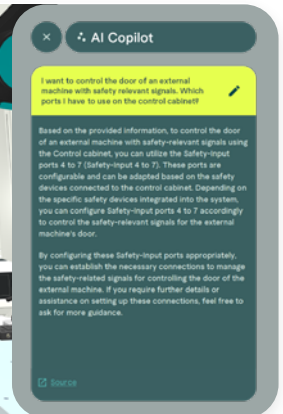
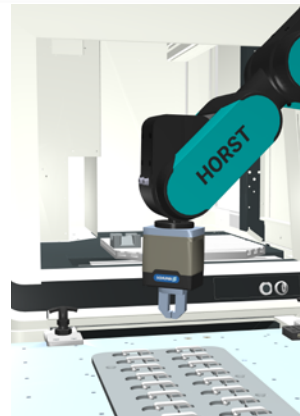
Programming assistance for all levels

Whether you are an experienced automation expert or just getting started, the AI Copilot is your personal robot programmer. Accelerate your projects with intelligent code completion or entire program modules and algorithms optimized for your purposes.



Expert knowledge at your service

Access an extensive knowledge base on automation without having to leave the software. Your virtual assistant answers technical questions and explains complex issues. Imagine having an experienced automation engineer at your side every step of the way. Except you don't have to call him – that's AI Copilot.



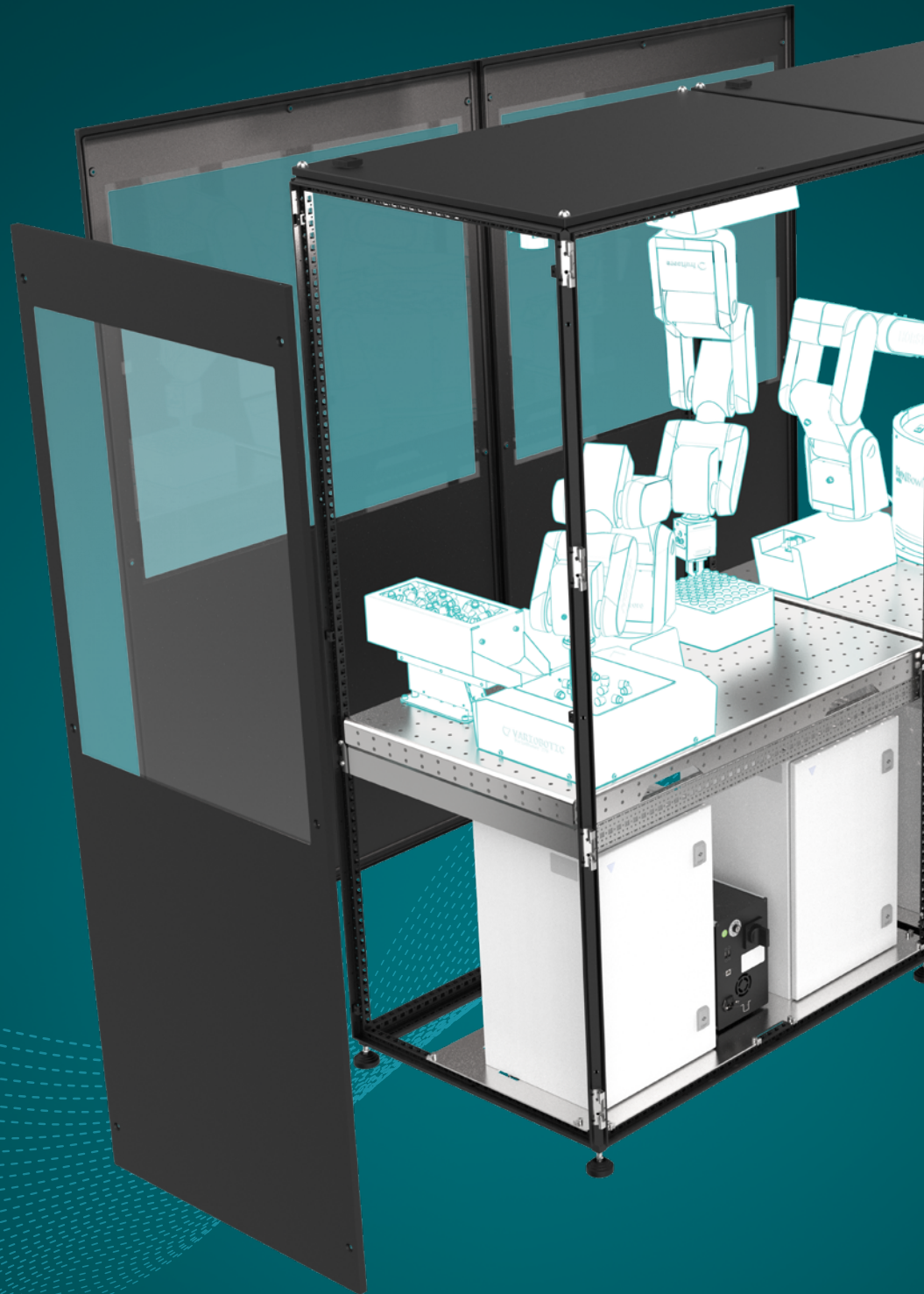
AI Copilot

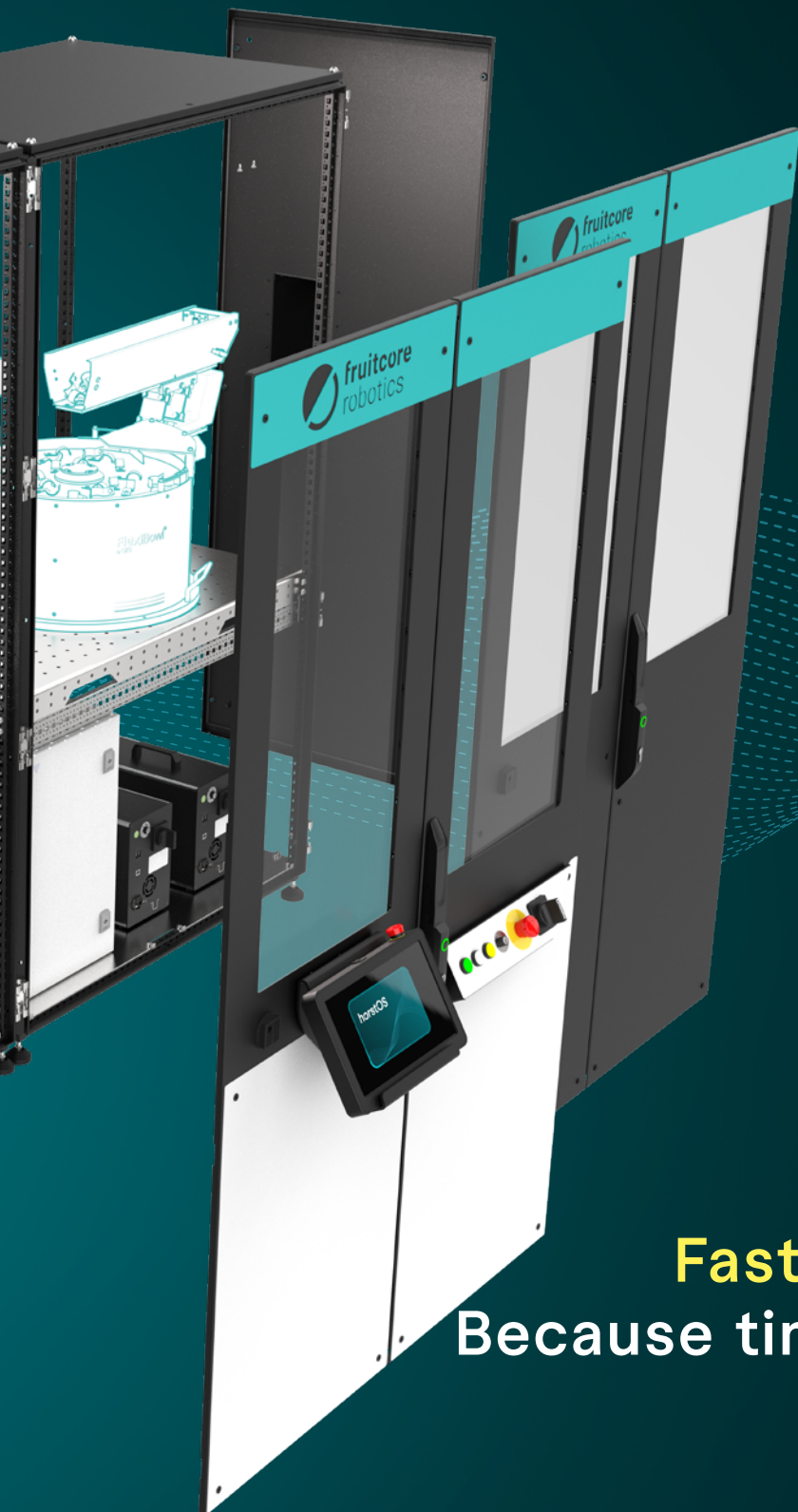


Component Kits for your Application

Ready-to-use accessories

From robot platforms to grippers and cameras to material handling and safety technology: Find out more about peripherals that can be seamlessly integrated

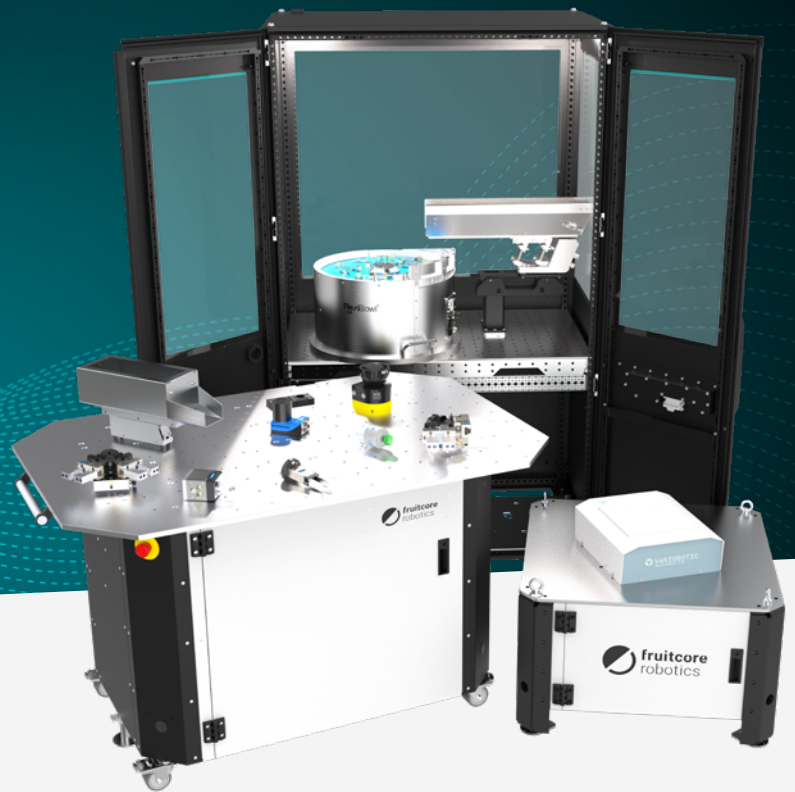




Fastest project planning
Because time is of the essence

Ready-to-use accessories

Forget about searching for and integrating different accessories for your application. We provide you with Component Kits that are fully prepared and ready for immediate use with our robots. All components are tested by our robotics engineers, which saves you risks during the implementation of your system and your own specialist knowledge in this area. Our range of equipment and tools extends from gripping and camera systems to safety technology and material handling.



Your advantages at a glance



Guaranteed functionality

The selection of plug-and-play Component Kits is optimally balanced so that you can implement a wide range of applications with the components and HORST robots.



Easy installation

The accessory packages can be installed on the robot in just a few minutes. Thanks to AI support, setup is child's play. All parts for assembly and cabling are already included in the Kit.



Most efficient software integration

Sample programs and comprehensive documentation speed up the setup of the component kits on the software side as well, and integration into the program sequence takes just a few minutes.



Uncomplicated processing

We want to save you the time and expense of searching for accessory suppliers. That's why you get the peripherals you need for your application directly from us: the robot manufacturer.



Robot Platforms

Whether mobile or modular - our robot platforms offer you the flexibility you need for your automation project, including the right accessories.

Pages 20–25



Gripping systems

Choose the gripping system that best suits your application – with all the accessories you need to get started right away.

Pages 26–27



Material feed

Take advantage of our tested and perfectly balanced components for infeeding, outfeeding, and separating your parts.

Pages 28–29



Safety

Ensure safe operation in accordance with ISO 10218-2 with our range of flexible safety guards with safety scanners.



Robot guidance

Our partners' professional robot guidance systems with high-resolution cameras accurately record the position data of your objects.

Mobile Robot Platforms

Our Mobile Robot Platforms enable you to get started quickly and safely with your automation projects. Choose between three models with different sizes and protective fence variants. Laser scanners provide additional protection within the safety area. If required, you can anchor your robot platform in the floor or position it flexibly and consistently using an optional locking system.



Your advantages at a glance



High flexibility in setup and operation

The base plate with M8 threaded rails allows flexible positioning your HORST robot and its accessories. The swivel casters ensure easy and accurate positioning on your system.



Quickly ready for use at low cost

Shorten your project times and reduce your costs significantly: We prepare the cabling for you and professionally set up the Robot Platform for you, including the safety fence.



Safe and accurate positioning

The Robot Platform can be securely mounted using the floor anchors provided. An optional locking system allows the platform to be positioned with repeat accuracy.



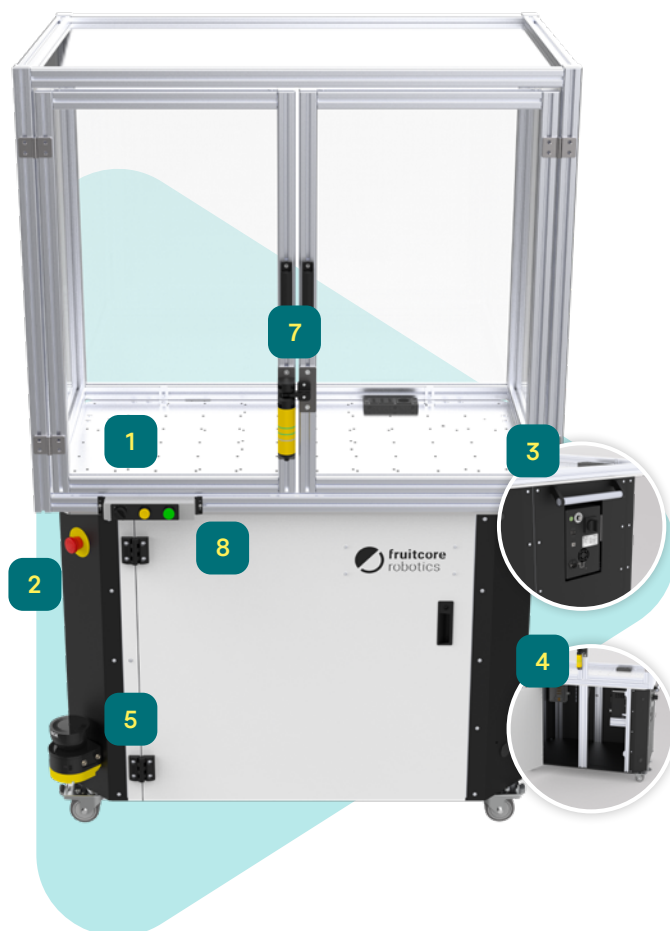
Safety and organization

In addition to the robot, the platform offers sufficient space for additional peripheral devices. Cable routing is safe and tidy thanks to the flexible, strain-relieved cable entry.

1. Base plate with 100 mm x 100 mm M8 threaded grid and cable entry
2. Emergency stop
3. Slot for Control unit
4. Lockable doors and storage space for additional peripheral devices
5. Mounting option for safety laser scanners

Optional accessories for version with protective fence

6. Modular safety fence
7. RFID-monitored safety interlock
8. Control console with two buttons and door request



Mobile Robot Platform - Further details

Size	S	M	L
Dimensions (L x W x H in mm)	1000 x 600 x 929	1200 x 800 x 929	1496 x 998 x 929
Empty weight	90 kg	115 kg	157 kg
Load capacity	300 kg	280 kg	240 kg

Mobile Robot Platform with safety fence and control panel - More details

Size	S with safety fence	M with safety fence	L with safety fence
Dimensions (L x W x H in mm)	1000 x 640 x 1940	1240 x 840 x 1940	1532 x 1101 x 2054
Empty weight	141 kg	176 kg	235 kg
Load capacity	250 kg	220 kg	165 kg

Modular Robot Cell horstCUBE

The closed horstCUBE cell enables you to achieve maximum efficiency and simplicity when planning small and large automation projects. horstCUBE is modularly expandable and offers you safety technology, an intuitive operating console, configurable side walls, and a height-adjustable base plate – tailored precisely to your needs, of course.



Your advantages at a glance



Secure implementation of applications

horstCUBE is robustly constructed with a protected work area and has an integrated safety clamp. This enables you to work on your system with safety in mind.



Customizability for your application

The carrier plate of horstCUBE can be mounted at different heights. This allows the robot to be positioned freely, overhead mounting is also possible.



Expandability thanks to modularity

Easily create larger safety areas or connect several processes in series. horstCUBE can be expanded modularly for larger automation projects.



Easy to use

Reduce the risk of operating errors on the panel by using horstCUBE's integrated operating console for application control.

Here's what you get with a horstCUBE:

1. Stainless steel base plate with 50 x 50 mm hole pattern
2. Door handle with status display and secure monitoring
3. Control panel with emergency stop, three configurable buttons, 230 V main switch and key selector switch
4. RFID-monitored safety interlock
5. Control cabinet with wired safety technology and space for additional peripheral controls



horstCUBE standard configuration - specifications in detail

Abmessungen (L x W x H in mm)	1220 x 900 x 2060
Control cabinet dimensions (L x W x H in mm)	380 x 350 x 600
Base plate with hole pattern (L x W in mm)	1167 x 710
Empty weight	300 kg
Load capacity	500 kg

horstCUBE – additional configuration



Base module with base plate



Side panel 800 mm with window



Side panel 800 mm without window



Side panel 1200 mm with window

Side panel 1200 mm without window



Door 1200 mm with control console, window, control cabinet, safety interlock



Door 1200 mm with control console, switch cabinet, safety interlock without window



Door 1200 mm without control console with window

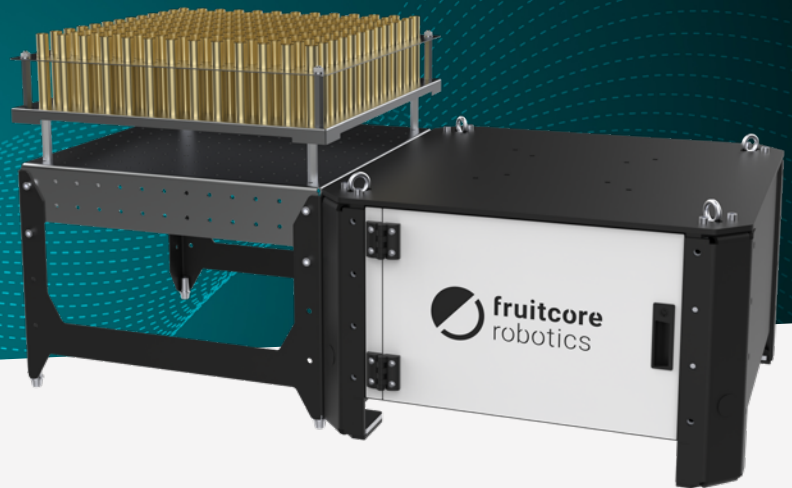


Door 1200 mm without control console without window

Individual special adaptations (on request)

Flexibly expandable Robot Platform

Optimize your manufacturing processes with our Robot Platform. It features a wide range of accessories such as trays with or without legs and a positioning unit. This allows for enormous flexibility and long autonomy times, especially when feeding machines. The platform, including the robot, can be easily moved using a pallet truck. This means that the system is quickly up and running and your machines can be easily accessed if necessary.



Your advantages at a glance



Stable construction

Developed for industrial applications, our Robot Platform ensures safe and precise operation of the robot even with high payloads and fast speeds.



Convenient transportation

Facilitate the installation and maintenance of your robot application with the Robot Platform, which can be easily moved with a pallet truck to make your machines quickly accessible.



Versatile accessories

Equip your robot platform with the appropriate accessories for your application, for example for machine loading and palletizing on Euro pallets.



Precise positioning

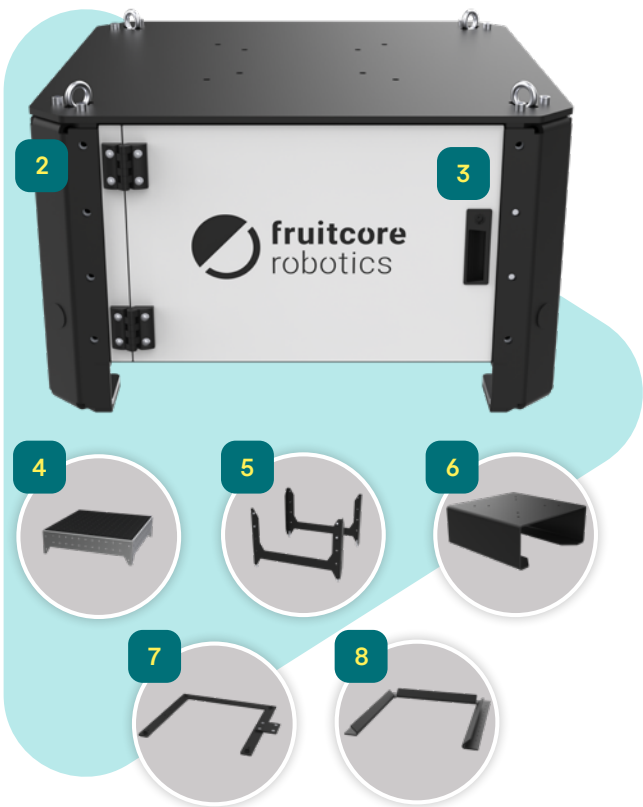
The Robot Platform has an optional positioning unit to make machines easily accessible. This makes it easy to move and reposition them precisely and repeatedly.

Here's what you get with the flexible Robot Platform:

- 1. Robot platform with transport lugs
- 2. Side mounting grid for attaching tray holders
- 3. Lockable door and storage space for control and other peripheral devices

OPTIONAL ACCESSORIES

- 4. Tray holder with 50 x 50 mm grid
- 5. Feet for the tray holder
- 6. Elevation for the robot
- 7. Centering station for Robot Platform or tray holder with feet
- 8. Centering station for Euro pallets

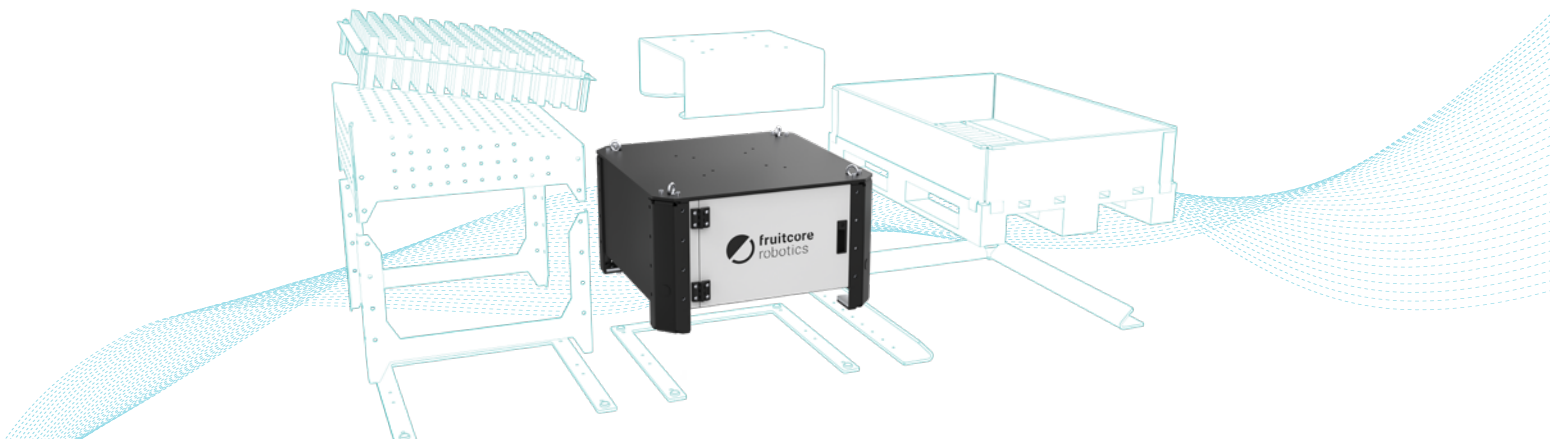


Robot Platform accessories - specifications in detail

External dimensions (L x W x H in mm)	792 x 792 x 488
Internal dimensions (L x W x H in mm)	764 x 764 x 362
Empty weight	160 kg
Load capacity	1000 kg

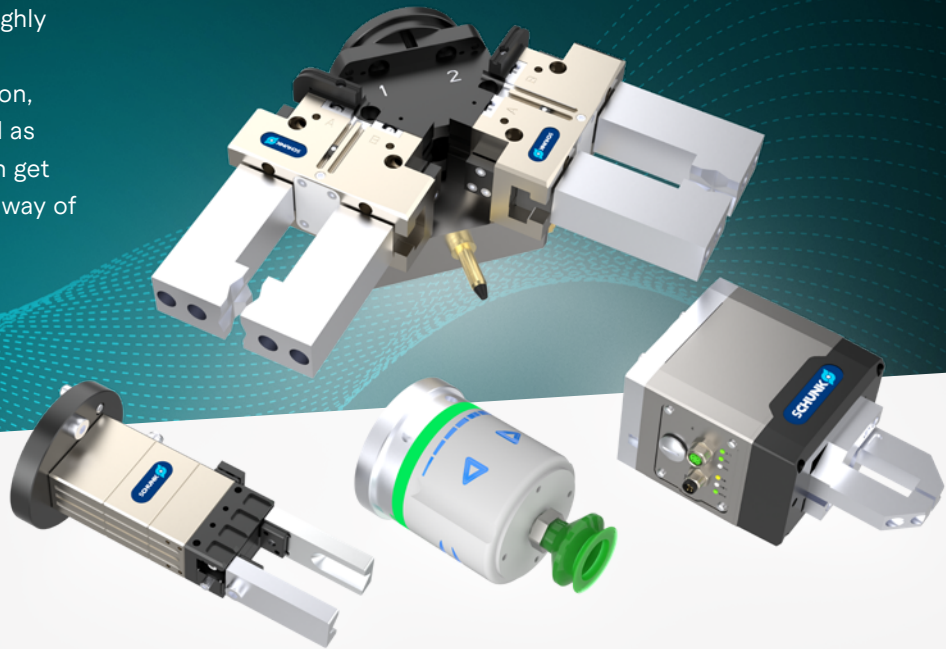
Robot Platform accessories - specifications in detail

Tray holder dimensions (L x W x H in mm)	672 x 672 x 119
Tray holder dimensions with feet (L x W x H in mm)	680 x 680 x 488
Dimensions elevation for robot (L x W x H in mm)	500 x 500 x 200



Quick start and easy commissioning

Our gripping systems save you time and increase your efficiency. The devices are thoroughly tested by our technicians in advance and include all mounting accessories. In addition, all gripping systems are already integrated as 3D models in our software so that you can get started right away. Nothing stands in your way of increased productivity.



Your advantages at a glance



Easy commissioning

Thanks to the system information of the gripping systems already stored in the software and their 3D mapping directly on the robot panel, we guarantee fast and error-free commissioning in your process.



Quick start

With our gripping systems, you are ready to go without any integration effort. You receive these systems as a kit including mechanical adapters, electrical wiring, and a set of gripping jaws or suction cups.



Professionally validated selection

Our gripping systems are extensively tested and validated by our application engineers. No more worrying about compatibility issues.



Direct access to specialist expertise


Our technicians will advise and support you with their many years of expertise. This ensures that your gripper systems are optimally configured for your robot applications.

Here's what you get with a Gripping System Kit:

1. Gripping system (electric or pneumatic)
2. Mechanical adapter including fasteners
3. Plug-in signal cables and external energy chains
4. Gripper jaws or suction pads



Gripping systems - specifications in detail

	Type	Weight	Stroke	Partial weight*	Application	Key features
	2-jaw parallel gripper (electric)	320 g	6 mm	0,7 kg	Pick-and-Place, Part Separation	Compact, Cost-effectiveness
	Small parts gripper (electric)	620 g	26,5 mm	0,3 kg	Pick-and-Place, Part Separation	Component variation, Variable stroke
	Double gripper 64 (pneumatic)	1620 g	6 mm	1,75 kg (per gripper)	Machine loading	Best cycle time, light parts
	Double gripper 80 (pneumatic)	2100 g	8 mm	2,75 kg (per gripper)	Machine loading	Best cycle time, heavy parts
	Vacuum suction pads (electric)	230 g	-	1,0 kg	Pick-and-Place, Part Separation	Integrated Vacuum pump

Accessories for flexible material feed

Get your robot-based part separation off to a smooth start with our accessories. We offer three variants whose advantages can be transferred to most applications. This ensures that your process is carried out safely and efficiently.



Your advantages at a glance



Tested and ready to plug in

Our ready-to-use, coordinated components save you time and effort during setup. This means you can start production immediately.



Flexible options

Find the optimal variant for your needs. Use the kit that best suits the nature of your components, how they are supplied, and the part variance.



Everything from a single source

Optimize your production with components pre-wired by the robot manufacturer. This makes integration and commissioning easier for you.



Comprehensive support




We provide on-site support to help you select exactly the right components for your automation needs. This will help you achieve the best results in your processes.

What you get with a Material Feed Kit

1. Robot guidance system
2. Vibrating hopper
3. Part Separator
4. Control cabinet (power supplies and controls for all components involved are fully wired upon delivery)



Further details of the variants we recommend:

	Variant A	Variant B	Variant C
			
Part size	5–50 mm	5–50 mm	up to 200 mm
Part weight	5–200 g	5–100 g	up to 1 kg
Part provision	Bulking material in the vibrating hopper, Separation on the part separator	Bulking material in the vibrating hopper, Separation on the part separator	Via a conveyor belt or stacked in a blister or box
Part properties	Ideally suited for parts with clearly recognizable outer contours	More complex, shiny components with variable outer contours	Parts of different geometries and sizes, even with challenging surfaces
Components	Vibrating hopper, Varios-haker, 2D robot guidance system SICK	Vibrating hopper, Flexi-bowl and 2D Grasping Kit from SCHUNK	Robot guidance system Mikado Find

Ready-to-use Solution Kits

Fast, simple, and reliable

Our automation modules with CE certification and completed risk assessment are specially tailored to industrial scenarios.





Less effort, more safety
Completely prepared solutions



Safe operation in accordance with ISO 10218-2

You receive your automation module including a completed risk assessment and with CE certification.



The most cost-effective and fastest project planning

Access predefined programs, interfaces, and plug-and-play control solutions.



Exceptionally reliable and cost-transparent

We conduct a free feasibility study on your company's system and provide personalized advice on a level playing field.



High flexibility

Take advantage of our modular Robot Platform and flexible function units.



Return on investment within 6 months

Save costs effectively by amortizing your Solution Kit in less than six months.



Simple control without PLC

Control the entire solution via a central automation operating system for robots and components.



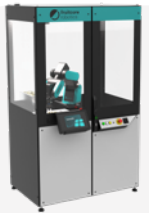
A Solution Kit can be commissioned, programmed and operated quickly and easily without any special prior knowledge.





Pick and Place

The best basic equipment for a safe, flexible, quick and easy introduction to robot-supported automation solutions. Also perfect for use in training and educational institutions.



Part Separation I

The automation module for separating components that can be easily recognized by their outer contours using through-light. Part Separation I offers you the best cycle time and fast learning of new components in less than 15 minutes.



Part Separation II

Do you want to separate complex, dimensionally unstable components? This is no problem with the setup of the Part Separation II Solution Kit. Thanks to AI software and a flexible gripper, different parts can be easily recognized and gripped from a bulk material.



Part Separation III

This automation module is perfect for 3D pick-and-place tasks. Undefined, tilted and layered parts are precisely located and reliably gripped with the vacuum suction gripper before being flexibly processed further.



Machine Tending I

The mobile automation module for maximum flexibility in machine loading. You achieve the shortest possible installation and changeover times, as you can position this Solution Kit on all common machine tools with repeatable accuracy using a fixture.



Machine Tending II

This modular Solution Kit is tailored to your requirements and can be configured in a variety of ways. Thanks to flexible parts provision, the system operates autonomously for long periods. A double gripper keeps intervention times in the machine to a minimum.



Education

Introduce your pupils, students, and trainees to working with industrial robots: our ready-to-use module for educational institutions and training companies—including comprehensive teaching materials.

Automate parts handling

Ensure efficient and smooth automation of your production processes with maximum adaptability to your plans. Our Solution Kit Pick and Place for a quick start to automation comes pre-assembled, CE certified, and with a completed risk assessment.



Your advantages at a glance



High flexibility and adaptability

The Solution Kit is optimized for all common industrial applications. Use the robot platform, safety equipment, and gripping system that are suitable for your needs.



Lowest project costs

With the Solution Kit Pick and Place, you can start your automation project with transparent, calculable costs and remain flexible even when requirements change.



Solution directly from the robot manufacturer

As a robot manufacturer, we provide you with a perfectly coordinated complete package: Industrial robots with a central operating system, platform, safety technology, and gripping system – all from a single source.



Quick start thanks to pre-assembled unit

The automation module is delivered to you fully assembled, installed and wired. You can integrate it seamlessly into your existing production workflows and processes.

Here's what you get with this Solution Kit:

1. Mobile Robot Platform S, M or L with safety fence and safety interlock
2. Smart industrial robot HORST600 or HORST1000 G2
3. Electric 2-jaw parallel gripper or electric vacuum suction gripper
4. Operating Console
5. Panel (touchscreen control device)
6. Control cabinet

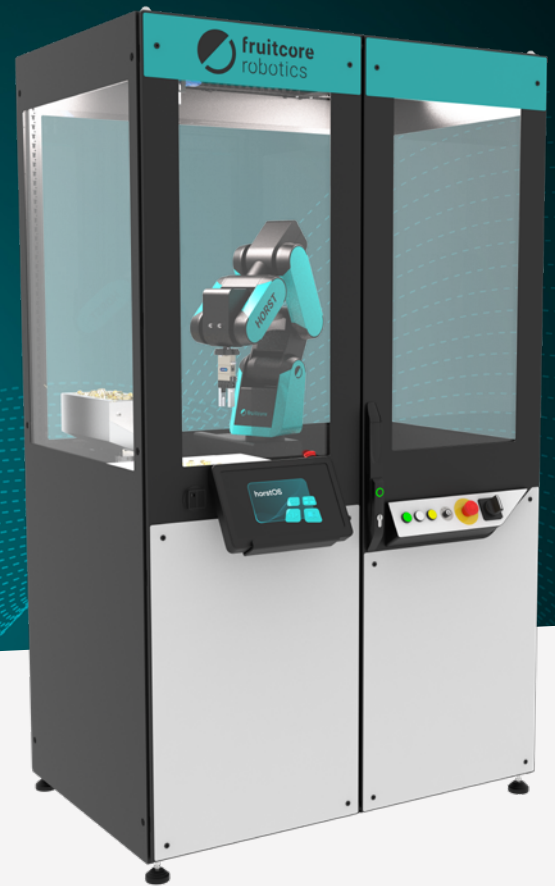


Solution Kit Pick and Place - Specifications in detail

Dimensions of platform with safety fence	1085 x 812 x 1930 mm (size S) 1285 x 903 x 1938 mm (size M) 1500 x 1103 x 2054 mm (size L)
Total weight of platform with safety fence	141 kg (size S) 176 kg (size M) 235 kg (size L)
Load capacity of platform with safety fence	250 kg (size S) 220 kg (size M) 165 kg (size L)
Components	HORST600 or HORST1000 G2; Mobile Robot Platform with safety fence; safety interlock and operating console; electric 2-jaw parallel gripper (SCHUNK) incl. standard jaw set or electric vacuum suction gripper (Schmalz) incl. standard suction cups

Separate bulk goods quickly and easily

Use this automation module and you will achieve the best possible cycle times when separating simple parts. Ideal for parts that can be easily recognized by their outer contours. Benefit from exceptional flexibility, as new parts can be taught in easily and in less than 15 minutes.



Your advantages at a glance



Minimal risk

We offer free consultation and feasibility studies to check the suitability of the Solution Kit for your project in advance.



Quick setup in less than 15 minutes

The software for the PLOC 2D camera from SICK is highly intuitive, allowing you to teach new components centrally via the panel in a matter of minutes without any prior technical knowledge.



Cost control and predictability

With the Solution Kit Part Separation I, you always have full transparency of your project costs. Thanks to standardization, you also benefit from short delivery times.



Quick start thanks to pre-assembled unit

The Solution Kit is delivered completely pre-assembled, including the software preconfigured for your process, so you can get started right away. Customizations can be made in just a few steps.

Here's what you get with this Solution Kit:

1. horstCUBE robot cell with safety interlock
2. Smart industrial robot HORST600
3. 2D robot guidance system
4. Feeding and separation
5. Electric 2-jawparallel gripper
6. Panel (touchscreen control device)
7. Operating Console
8. Control cabinet
9. Control cabinets for peripherals



Solution Kit Part Separation I – Specifications in detail

Component size and weight

5–50 mm / 5–200 g

Setting up new parts

Less than 15 minutes for the complete setup of a new component

Part variance

The setup is ideal for separating components that can be clearly identified by their outer contour

Parts provision

Parts can be fed into the vibrating hopper as bulk material.

The hopper size can be selected depending on the required autonomy time.

Achievable cycle time

Up to 5 seconds

Further details

Dimensions/ Weight

1120 x 900 x 2060 mm/ approx. 400 kg

Components

HORST600; horstCUBE robot cell with safety interlock and operating console; 2D robot guidance system (SICK); VarioShaker 270 or 540 component separator, 5 L, 10 L or 25 L vibrating hopper and electric 2-jaw parallel gripper (SCHUNK)

Flexible separation of complex components

Are you looking for automated separation of complex, shape-unstable components such as chain links or bags? This automation module is the right choice for you, as it not only allows different gripping positions and detects the position of the part, but also offers many other advantages. With the AI-supported gripping system from our partner SCHUNK, you can also work with regular lighting – i.e., without transmitted light.



Your advantages at a glance



Minimal risk

We would be happy to advise you on the use of the Solution Kit in your project. We carry out free feasibility studies on the fully assembled solution in advance.



Reliable part detection

The intelligent software of the SCHUNK EGK gripper allows you to quickly teach even complex components with different surfaces without any prior knowledge.



Cost control and predictability

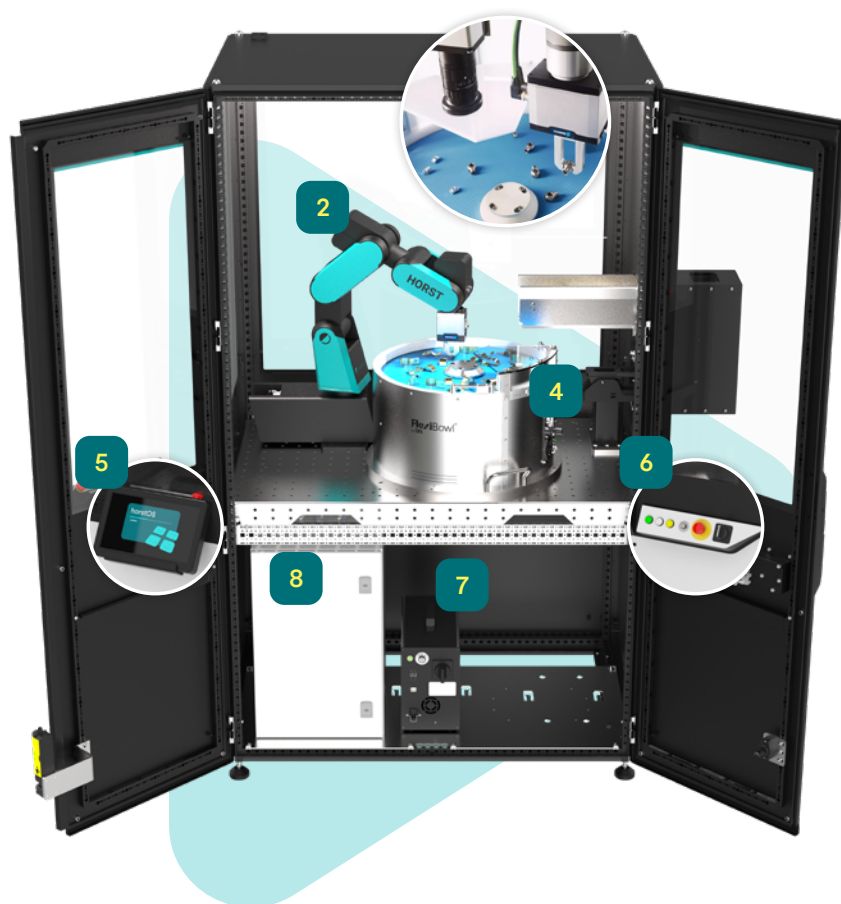
Start your automation project with clearly calculable costs and benefit from short delivery times thanks to standardization.



Quick start thanks to pre-assembled unit

The Solution Kit is delivered fully pre-assembled, so you can customize the process flow in just a few steps and get started right away.

1. horstCUBE robot cell with safety interlock
2. Smart industrial robot HORST600
3. 2D grasping kit consisting of camera, flexible 2-jaw parallel gripper and industrial PC
4. Flexibowl 500 with 10 L vibrating bunker
5. Panel (touchscreen control device)
6. Operating Console
7. Control cabinet
8. Control cabinet for peripherals



Solution Kit Part Separation II – Specifications in detail

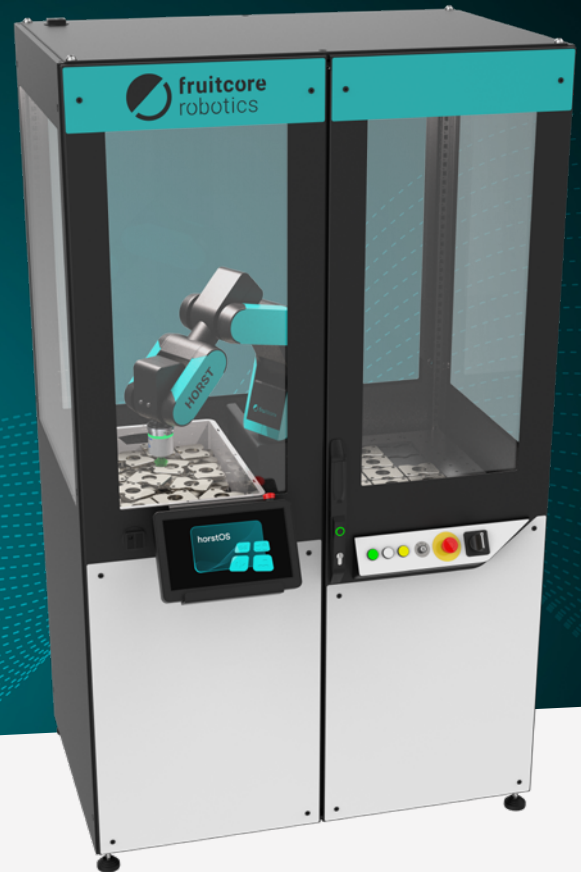
Component specification	5-50 mm / 5-100 g
Setting up new parts	Approx. 15 minutes for AI training (plus model calculation by the AI)
Part variance	Separating, recognizing, and gripping different parts from bulk material. Even parts with instable shapes and reflective surfaces can be separated.
Parts provision	Parts can be fed into the vibrating hopper as bulk material from outside the horstCUBE.
Realizable cycle time	Up to 5 seconds

Further details

Dimensions/ Weight	1510 x 900 x 2060 mm (incl. protruding vibrating hopper) / approx. 400 kg
Components	HORST600; horstCUBE robot cell with solenoid interlock and operating console; Flexibowl 500; vibrating hopper 10 L and 2D grasping kit (SCHUNK) incl. flexible EGK-25 gripper (SCHUNK)

Advanced 3-D Pick-and-Place

Locate parts anywhere in the work envelope with this CE-certified automation module's 3-D vision. Even tilted or layered workpieces are safely lifted by an electric vacuum gripper – no singulation step required, a real plus when handling delicate components. The flexible system works reliably regardless of ambient lighting.



Your advantages at a glance



Flexible and easy to integrate

Parts are detected as true 3-D objects in any orientation and picked securely. You can feed bulk parts straight from a conveyor.



Setup in minutes from CAD

Simply load your part as a CAD model; the camera-software algorithm handles the rest and passes the data straight to the robot.



Cost control and predictability

Start your automation project with clearly calculable costs and short lead times thanks to standardization.

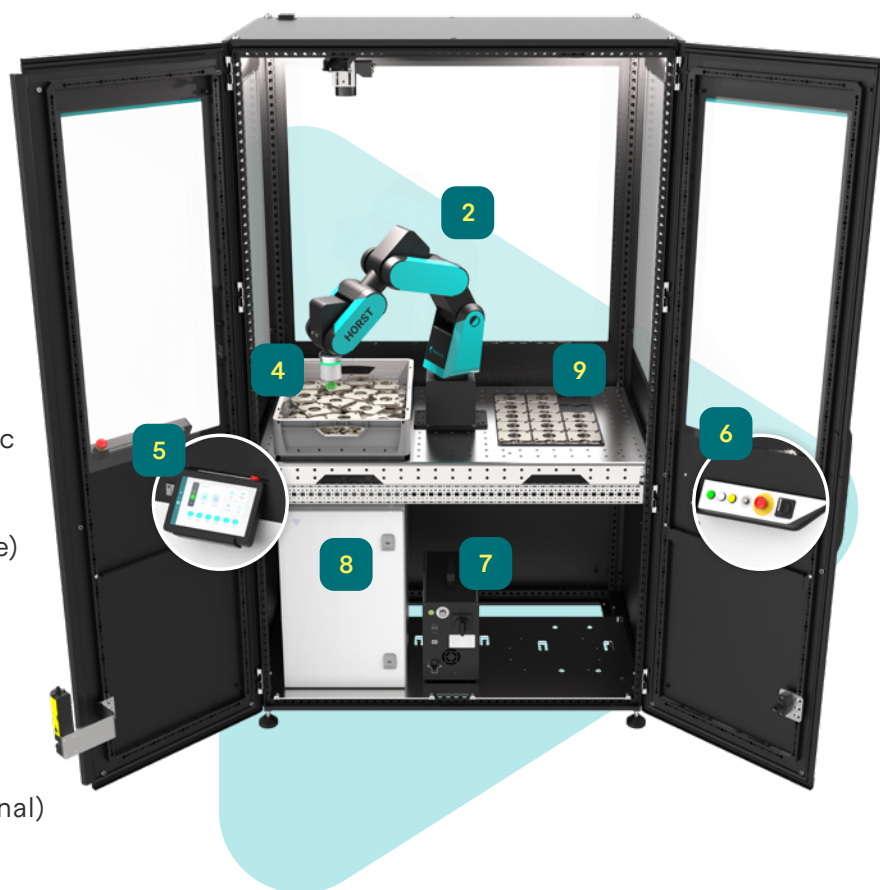


Quick start thanks to pre-assembled unit

The Solution Kit is delivered fully installed and the process sequence is pre-programmed. A few quick adjustments and you are ready to run.

Here's what you get with this Solution Kit:

1. horstCUBE robot cell with safety interlock
2. Smart industrial robot HORST600
3. Ensensio 3D camera
4. Electric vacuum gripper or electric 2-jaw parallel gripper
5. Panel (touchscreen control device)
6. Operating Console
7. Control cabinet
8. Control cabinet for peripherals
9. Customized part discharge (optional)



Solution Kit Part Separation III - Specifications in detail

Part specifications	Part size up to 200 mm/ part weight up to 1 kg
Setup time for new part	approx. 15 minutes for the complete setup of a new component
Part presentation	Parts are either roughly pre-separated on conveyor or stacked in blister/box; no shaker needed for separation
Part variance	Suitable for a wide range of geometries, sizes and even challenging surfaces
Achievable cycle time	up to 5 seconds

Further details

Dimensions/ Weight 1120 x 900 x 2060 mm / approx. 350 kg

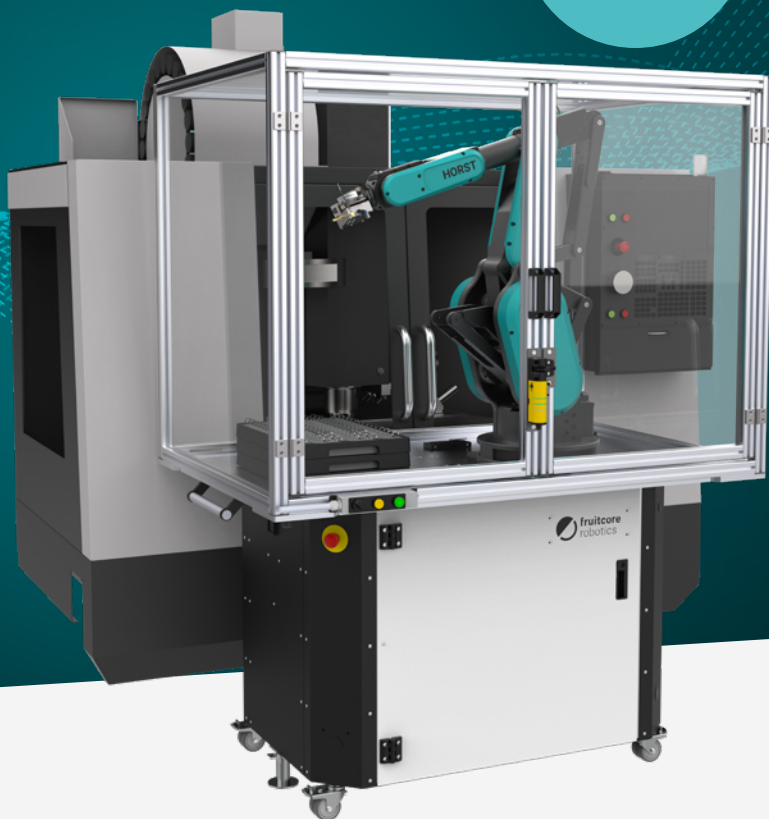
Components

HORST600; horstCUBE robot cell with solenoid interlock and operating console; Optonic Mikado Find System with Ensensio camera system and electric vacuum suction gripper (Schmalz) or electric 2-jawparallel gripper (SCHUNK)

Mobile module for automated machine loading

Ready to use

Achieve the shortest installation and change-over times and maximum adaptability when loading and unloading your machines. Designed for all common machine tools, this module boosts productivity fast while staying flexible for changing tasks.



Your advantages at a glance



Only 15 % of the usual project effort

Predefined programs and prepared interfaces cut lead time and start-up cost by up to 85 % compared with typical robot projects.



Highly mobile and flexible

Need access to the machine? Simply roll the Solution Kit away on its Mobile Robot Platform and lock it back in place just as quickly.



Simple and central operation

Program and run the system of the Solution Kit via the intuitive horstOS directly on the panel; no external PLC required.

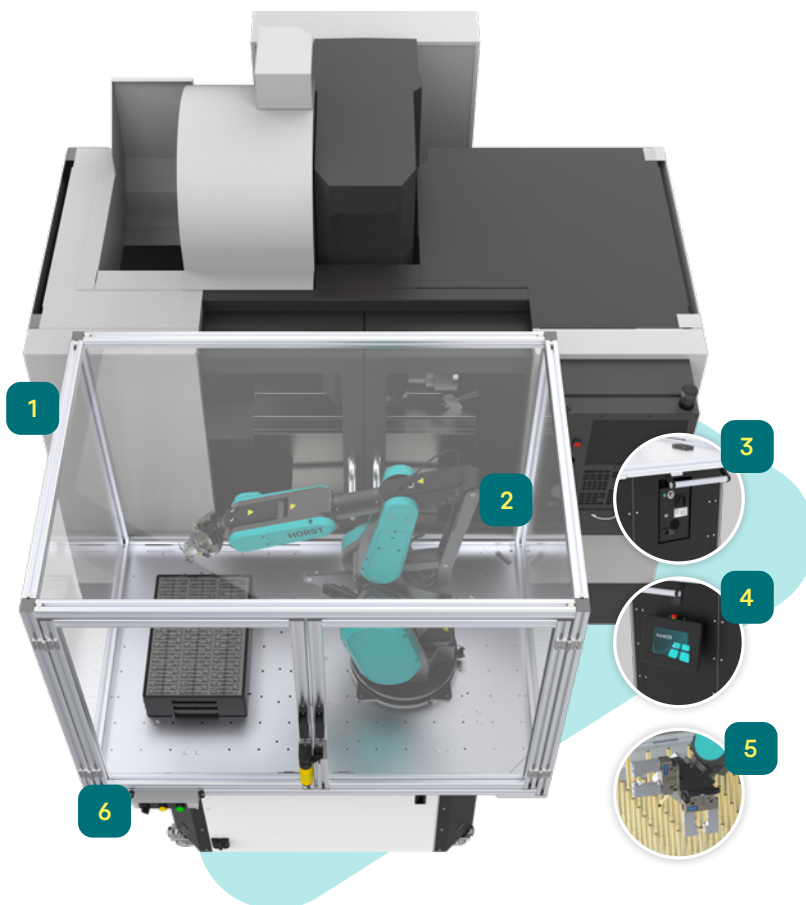


High productivity, less downtime

In addition to loading and unloading, the kit blows off finished parts, cutting idle time and costs.

Here's what you get with this Solution Kit:

1. Mobile Robot Platform L with safety fence and safety interlock
2. Smart industrial robot HORST1000 G2
3. Control (control unit)
4. Panel (touchscreen control device)
5. Double gripper with blow-off unit
6. Operating Console



Solution Kit Machine Tending I - Specifications in detail

Handleable part weight	up to 3 kg with double gripper (up to 12 kg with single gripper)
Reach into machine	up to 800 mm (mount-position dependent)
Loading time	approx. 12 seconds with removal, blowing off and insertion
Recommended tray size	500 x 500 mm - square 600 x 400 mm - rectangular
Autonomy time	approx. 60 min (with 100 parts, 12 seconds placement time and 20 seconds machine processing time)
Compatible machines	Emco, Hurco, Haas, Trumpf, Foba and many more (also special machines)

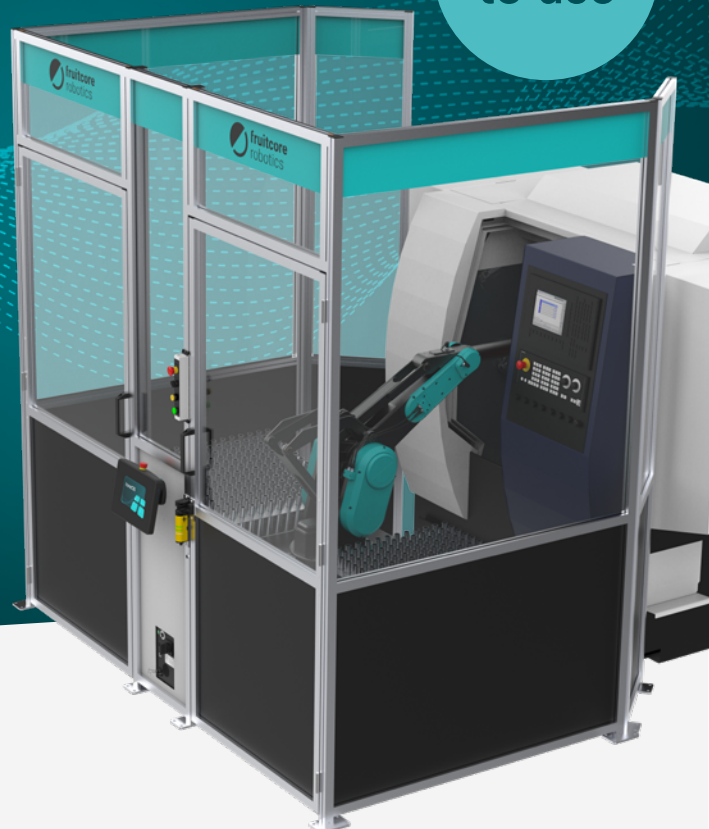
Further details

Dimensions / Weight	1500 x 1103 x 2054 mm / approx. 312 kg
Components	HORST1000 G2; Mobile Robot Platform L with safety fence; safety interlock and operating panel; locking kit; double gripper 64 with blow-off unit (SCHUNK)

Custom solution for automated machine loading

Ready to use

Configure this modular Solution Kit as required and, thanks to flexible part presentation, achieve maximum autonomy times. The module consists of standardized Component Kits that you combine for your application – maximum project flexibility at minimum cost.



Your advantages at a glance



Extremely reduced project effort

Plug-ready interfaces and fully compatible Component Kits mean you start with only 15 % of the usual engineering work – much faster than with special purpose machines.



High autonomy

Adapt part supply to your needs and maximize machine uptime for higher output.



Simple and central operation

Program and run the system of the Solution Kit via the intuitive horstOS directly on the panel; no external PLC required.

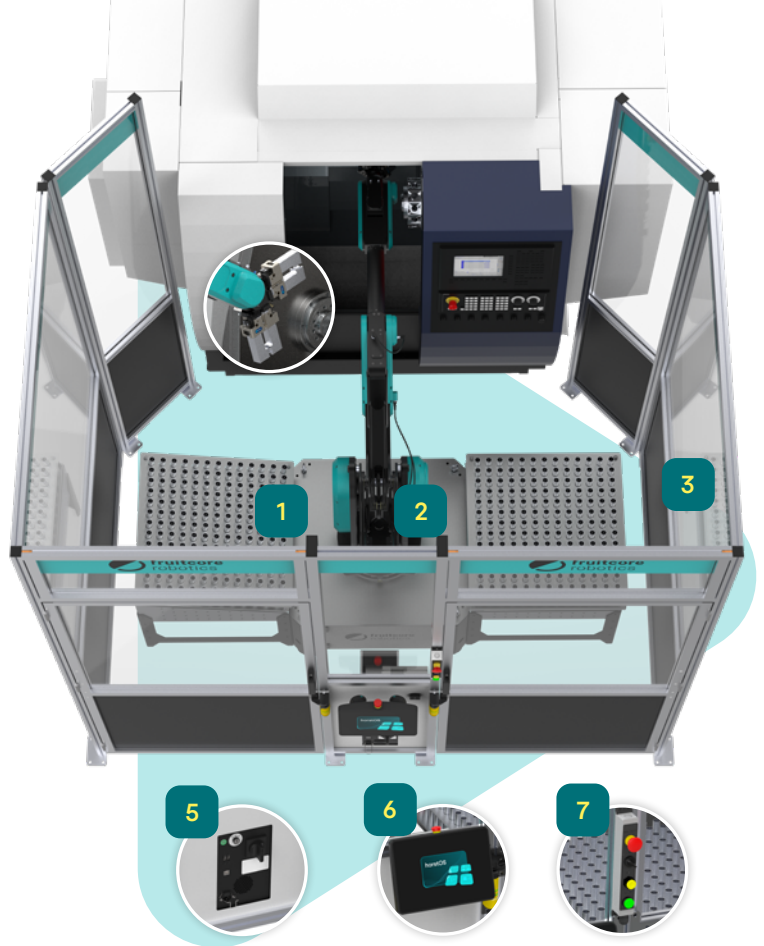


Highest efficiency

Short loading times and functions such as blowing off finished parts and collets minimize downtime. This will increase your output significantly.

Here's what you get with this Solution Kit:

1. Robot platform with two tray holders, incl. leveling feet
2. Smart industrial robot HORST1000 G2 or HORST1500 G2
3. Modular robot fence with two doors, incl. safety interlock
4. Double gripper with blow-off unit
5. Control (control unit)
6. Panel (touchscreen control device)
7. Operating Console



Solution Kit Machine Tending II - Specifications in detail

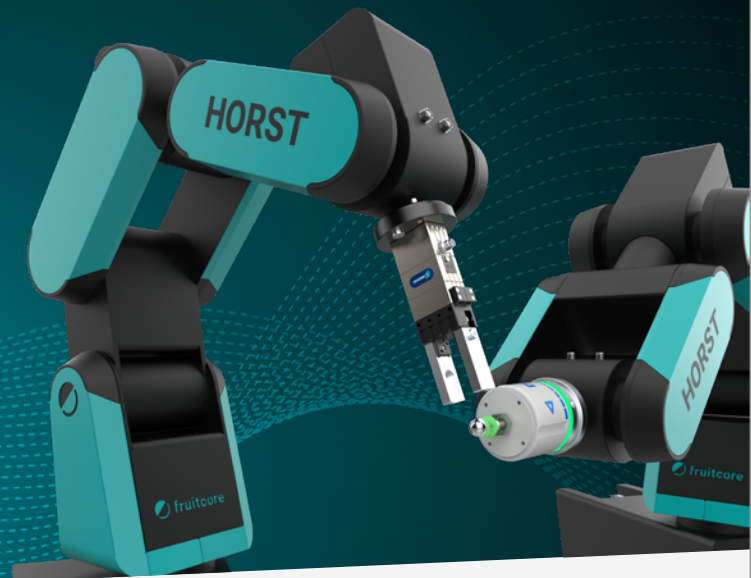
Handleable part weight	up to 4.5 kg with double gripper (up to 12 kg with single gripper)
Reach into machine	up to 1 100 mm, depending on mounting position
Loading time	approx. 12 seconds with removal, blowing off and insertion
Recommended tray size	Standard size of the tray holder 672 x 672 mm
Autonomy time	Customizable through part supply with 1 – 3 tray holders or directly dockable pallets
Compatible machines	Emco, Hurco, Haas, Trumpf, Foba and many more (also special machines)

Further details

Available Component Kits	Robot platform; Tray holder (with legs); Positioning unit; Dual gripper 80 with blow-off (SCHUNK); Robot fence (platform section, door section with safety interlock, long/short section); Machine interface
Modularity	Combine our Component Kits to fit your specific application. We'll be happy to advise you and prepare a personalized quote.

Get ready for tomorrow's workplace

You run an apprenticeship program, a school, or a university and want to give learners hands-on experience with robotics and automation? Our package solution is tailored exactly to educational institutions like yours. Included, of course: the HORST industrial robot, whose intuitive operation requires no prior knowledge.



Your advantages at a glance



Perfect entry point

We pair the Pick-and-Place module with an Education Package developed specifically for students and instructors, making the first steps into robot-based automation playful and easy.



Shortest ramp-up for instructors

Teachers receive a dedicated online course plus extensive, ready-to-use training materials. With the 200-page robotics teaching script, classes can begin right away.



Flexible lesson planning

We provide up to 25 software licenses per class or study group for programming and simulation, along with full access to our e-learning platform.



Mobile use and high flexibility

The entire package - including the robot - fits through any standard doorway, so you can deploy it in different rooms or sites. A regular 230-volt household outlet is all you need for power.

With our all-in-one operating system, programming robots and automated cells is child's play. Study groups progress step-by-step - from pure simulation to real-world execution on the robot. To keep motivation high, independent problem-solving always takes center stage.

Step 1:

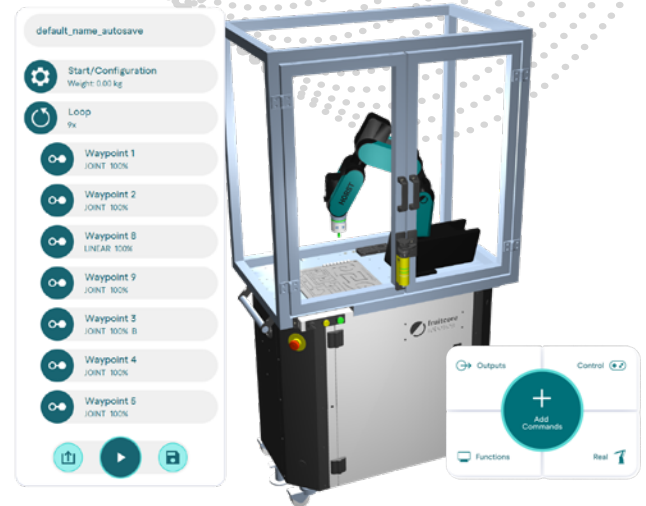
Create 3D worlds and robot programs

With horstOS you can rapidly build 3D environments and robot programs—no physical robot required. Up to 25 simulation licenses run on standard PCs.

Step 2:

Test and optimize programs in the 3D simulation

Use the 3D simulation to interactively test and refine your programs - reach the perfect solution fast and frustration-free.



Step 3:

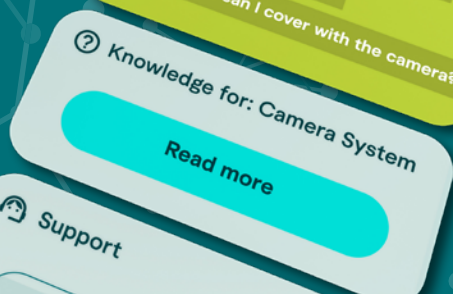
Transfer to the robot and fine-tune

When you're satisfied, transfer the program to your HORST over the network or via USB stick and set waypoints in minutes.

Step 4:

Test briefly and then you're ready to go

Before HORST runs automatically, perform a short test to avoid collisions and ensure safe operation.



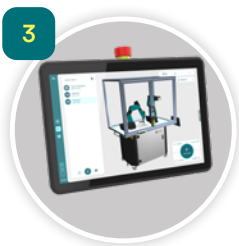
From theory to practice: A field-proven learning module



“

With HORST, our students encounter the same programming languages they learn in class. HORST also initializes extremely quickly and offers an intuitive, graphical user interface. That gives HORST many advantages for use in schools.

1. Mobile Robot Platform S with safety fence and safety interlock
 2. Smart industrial robot HORST600 incl. electric 2-jaw parallel gripper
 3. Panel with large 13.3" touchscreen (2560 x 1600 px)
 4. Two Control cabinets with extensive interfaces for complete automation systems
 5. horstOS operating and programming software with AI Copilot and integrated simulation
 6. Training station: marble run with balls
- + Comprehensive teaching materials, including a 200-page robotics textbook
 - + 25 server licenses for horstOS
 - + 25 logins for the Academy e-learning platform
 - + 3-hour instructor training to prepare teachers and trainers for using the robot system in education



What your group will learn

- ✓ Commissioning, setup and safe operation of robot systems

Creating their own programs through hands-on practice exercises

Integrating external sensors and controlling external devices

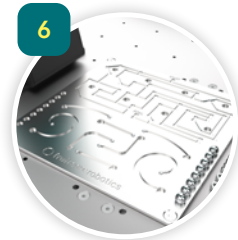
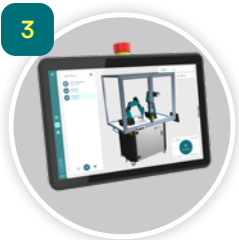
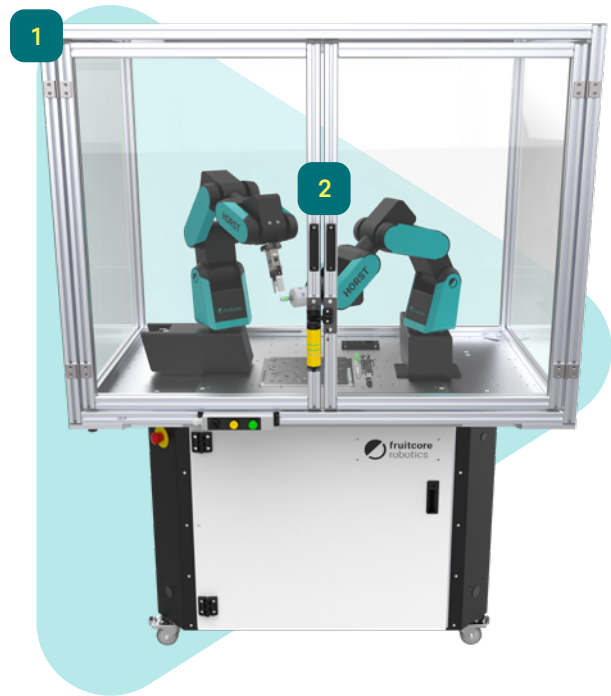


New and expanded: Learn with two robots



Ready to run - fully pre-assembled

1. Mobile Robot Platform L with safety fence and safety interlock
 2. **Two smart industrial robots HORST600**
incl. electric vacuum gripper and electric 2-jaw parallel gripper
 3. **Two Panels** with large 13.3" touchscreen (2560 x 1600 px)
 4. **Two Control cabinets** with extensive interfaces for complete automation systems
 5. horstOS operating and programming software with AI Copilot and integrated simulation
 6. Training station: marble run with balls
- + Comprehensive teaching materials, including a 200-page robotics textbook
 - + 25 horstOS server licenses, incl. access to the Academy e-learning platform
 - + 3-hour instructor training for teachers and trainers



How a second robot pays off

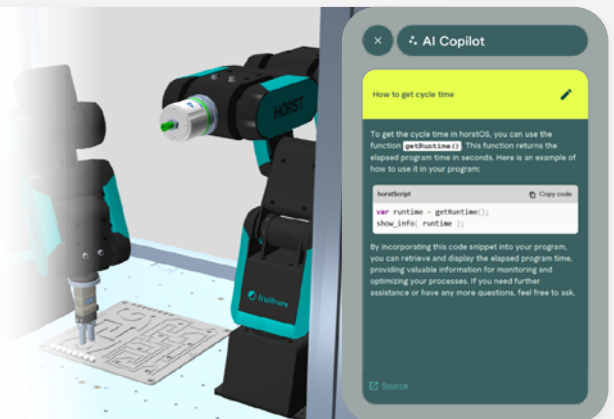
- ✓ Experience the interaction of two robot systems—first in simulation, then in the real cell

Access expanded options for programming complex application scenarios

Efficient, future-proof: Learning with a real-time chatbot

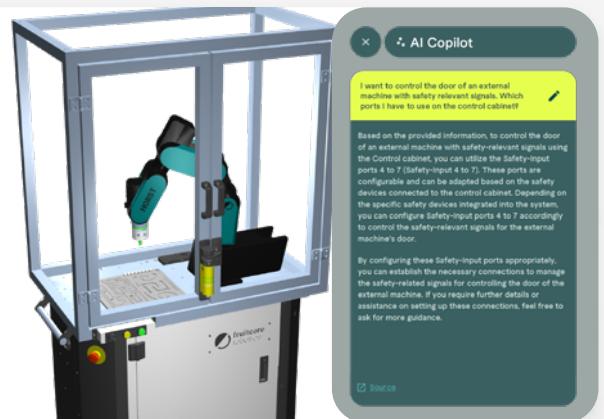
Understandable learning

The AI Copilot is built into the software and acts as a virtual expert. Even complex topics are explained in plain language, making industrial automation clearer than ever and enabling students to achieve rapid learning success.



Faster progress

The AI Copilot intelligently completes and optimizes program code – an invaluable aid regardless of prior knowledge. The focus on quick wins means learners soon tackle even advanced projects while deepening their grasp of robot programming.



More study time, less frustration

The AI Copilot not only identifies errors but also offers concrete fixes. Schools spend less time on troubleshooting and more on true learning. Students understand mistakes faster, learn from them, and gain confidence in their problem-solving abilities.



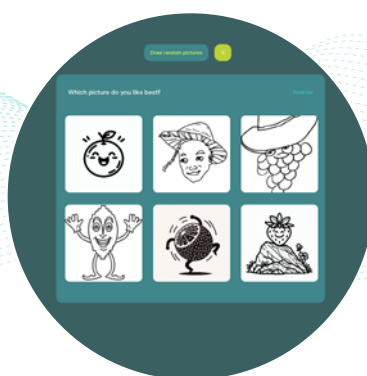
Upgrade your learning platform to the AI Robot Painter - HORST autonomously creates unique artwork. Just type what you want the picture to show; the text prompt is converted into a program, and the robot paints your one-of-a-kind piece in minutes. Students (or you!) see first-hand how creativity, AI and automation combine for complete results.

How does it work?

Describe the artwork



Choose your favorite motif



Start the painting process and watch



What you get with the AI Robot Painter extension

1. Painting accessories with brush holder, water container, paint pot holder and easel
2. Consumables (brushes, paint pots and paper) for 200 works of art - more on request
3. Adapted user interface for easy robot interaction, incl. motif templates
4. AI interface that converts text commands into robot programs optimized for artistic applications



Individual assistance on equal footing

Achieve maximum efficiency and reliability in your automation projects. From tailor-made Care packages to comprehensive training and implementation help - we accompany you every step of the way.



Your advantages at a glance



All-round service for your automation

Care and Care Plus packages deliver software updates, extended system warranty and in-depth technical support from robot experts.



Most efficient project planning

We verify feasibility against all key parameters and can assist with mechanical assembly, wiring, setup and configuration.



Simplest start

Choose onsite, remote or e-learning formats—content is tailored to your specific projects and challenges.



Highest-level support

Benefit from extensive industrial experience and our partner network throughout Germany and Europe.



Robot Services

Care packages with software updates, extended warranty, wear-part guarantee and expert advice.

Pages 56/57



Training Services

Online basic course plus many add-on trainings on textual programming, interfaces, safety technology and more.

Pages 58/59



Engineering Services

Feasibility studies, assembly, wiring, setup, programming and commissioning of your custom automation

Pages 60/61



- ✓ Cost-efficient maintenance service and lifecycle management via IIoT platform; feasibility studies reduce risk and speed productivity.
- ✓ Feasibility studies reduce risks in the implementation of your project and ensure rapid productivity.
- ✓ Customized solutions: We support you in project planning for automation that is precisely tailored to your needs.

Maximum uptime, worry-free operation

Maximum reliability thanks to service from robotics experts
Updates, preventive maintenance, technical support on the same wavelength

Immediate assistance and long-term operational reliability **Care - Cost-effective for worry-free automation**

Our Care service combines expert support for setup and programming, regular system checks, extended warranties on the drive, and faster support responses in a single package. This ensures that your robots are always safe and worry-free.



Warranty on the entire system and flat rate for spare parts **Care Plus – Premium service for maximum support**

Expand the comprehensive Care service. The Plus package includes an even more extensive warranty on the entire robot system, spare parts delivery within one business day, and additional time with our robotics experts for setup and programming.



“

We are more than satisfied, both with HORST and with the service and support from fruitcore robotics. The team is extremely competent, friendly and very helpful. The ideal solution for us!

Type	Services	Without	Care	Care Plus
Predictive maintenance	Continuous system monitoring	×	✓	✓
	Regular system check	×	✓	✓
	Replacement of wearing parts based on condition monitoring	×	✓	✓
Service	Contact us via our online service system	✓	✓	✓
	Service hotline	×	✓	✓
	Guaranteed response time	×	4 h (weekdays, from 8 a.m. to 5 p.m.)	4 h (weekdays, from 8 a.m. to 5 p.m.)
Support	Support in the case of problems or errors	135 €/h	✓	✓
	Assistance via remote connection	135 €/h	✓	✓
	Technical advice and program optimization	135 €/h	✓	✓
	Priority processing of support requests	×	✓	✓
Update	Updates to the entire robot software	×	✓	✓
Warranty	Extension and renewal of the warranty for motors and gearboxes	✓	✓	✓
	Provision and delivery of spare parts for motors and gearboxes	×	✓	✓
	Extension and renewal of the warranty for the complete robot system	×	×	✓
	More comprehensive provision and delivery of spare parts	×	×	✓
	Dispatch of spare parts within one working day of notification of need	×	×	✓

Flexible, hands-on learning for efficient automation

Your advantages at a glance



Learn the basics at your own pace

In the basic training course, you will learn about intelligent industrial robots step by step – from assembly to optimal control and programming. Thanks to detailed and easy-to-understand videos in the online portal, you can determine your own learning speed.



Deepen your skills, fast

Small-group, expert-led classroom sessions promise interaction, practical content, and one-day results.



Go deep on special topics

Focused courses cover interfaces, safety, peripherals, text-based programming, and custom projects—tailored to you.



Online, exclusive, or on-site - your choice

Use our 24/7 e-learning portal or book a dedicated training day for your team.

“

Our first HORST was productive in a day; another vendor took three for the training itself. HORST saved us time and money.

”

Type	Training	Contents	Duration	Participants	Format
General	Basic training HORST and horstOS	Setup & programming fundamentals	3 h	Up to 3 persons	Presence / Remote
	Consolidation Day	Advanced programming & motion optimization	8 h	Up to 8 people	Presence
	Academy (free of charge)	Core e-learning	30 minutes tutorials	unlimited	Digital
	Academy Plus	Advanced e-learning	3 h tutorials	unlimited	Digital
	Combo: Consolidation Day + Academy Plus	Both offers in one	one year / 8 h	one person	Presence / Remote
Additional	Camera interfaces	TCP/IP setup & programming	2 h	Up to 8 people	Presence / Remote
	PLC interfaces	Profinet communication	2 h	Up to 3 persons	Presence / Remote
	Text-based Programming	JavaScript operators & functions	2 h	Up to 3 persons	Presence / Remote
	Special	Custom content	3 h	Up to 3 persons	Presence / Remote
	Safety	Safe automation implementation	2 h	Up to 3 persons	Presence / Remote
Kit	Part Separation	Solution Kit setup	6 h	Up to 3 persons	Presence / Remote
Education	Teachers and trainers	Practical preparation for the use of robots in the classroom	3 h	Up to 3 persons	Presence / Remote
Individual	Project-specific	As required	individual	individual	Presence / Remote

We support you personally and closely with your automation: From the initial consultation to ongoing operation

No detours via several suppliers or special solutions



With the knowledge of a robot manufacturer, we ensure that your automation solution runs reliably, safely and efficiently – directly on site, without external integrators.

Expert knowledge for smooth integration



Our experienced robotics engineers support you with feasibility studies, assembly, cabling, set-up and configuration so that you can reach your goal quickly and safely.

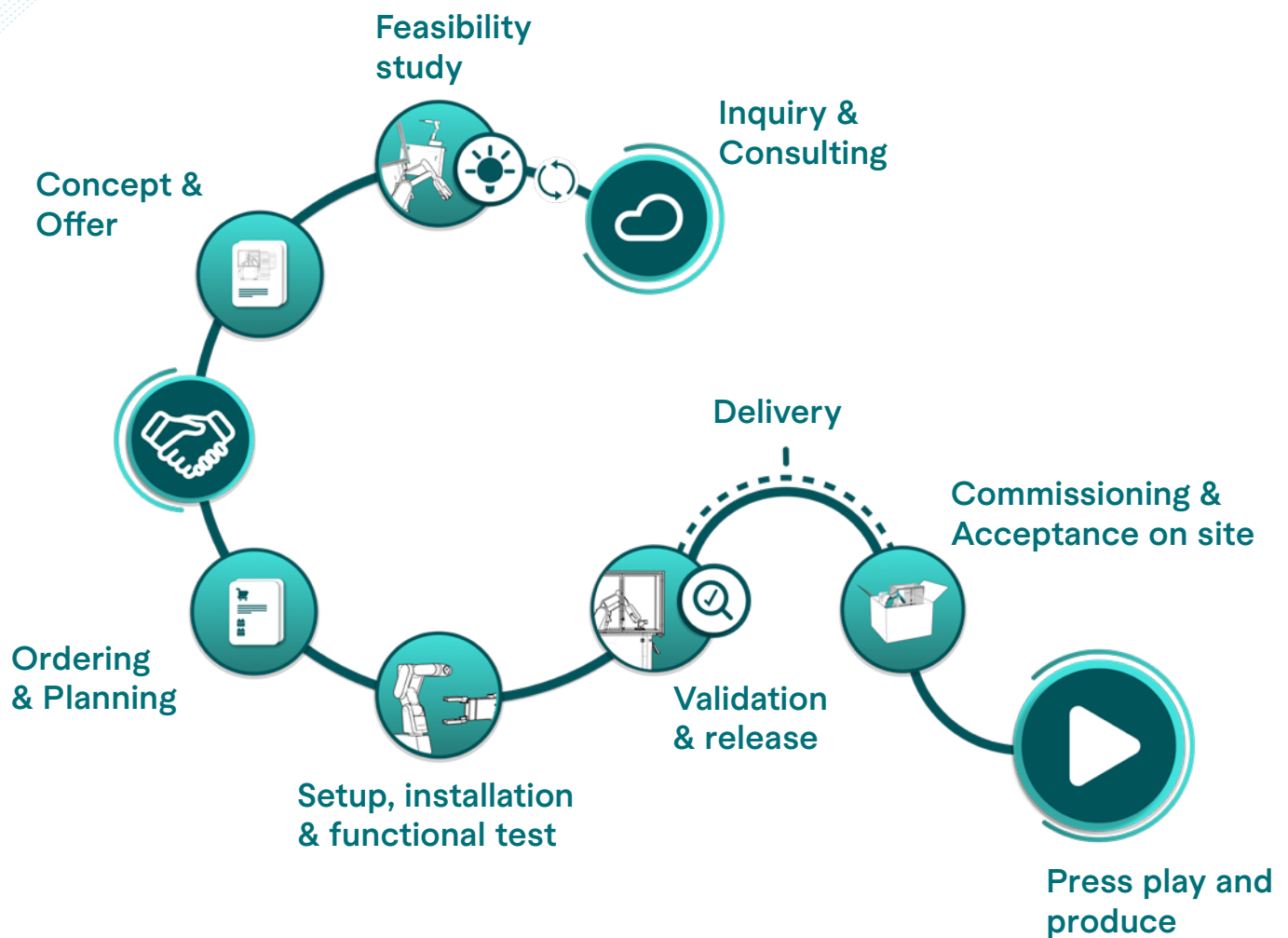
Fast project planning and implementation at the most attractive price



Our engineering services are based on tried-and-tested, CE-certified automation modules. This saves you many hours of work and the usual costs of individual implementations.

Helping you achieve efficient automation faster: Experience in robotics instead of unnecessary overengineering

Our application engineers and developers are experts in cost-effective automation solutions tailored to your individual needs. Thanks to the modular concept based on tested standard solutions, you avoid hidden additional costs for components that you don't even need.



For us, you are more than just „any customer“: our support therefore does not end with the purchase, but runs from **planning to installation, programming and commissioning on site**. Compare for yourself: No other robot manufacturer offers you such close and comprehensive support for your automation.

fruitcore robotics is revolutionizing industrial automation with a **fully integrated robotics platform** “Made in Germany”. Patented HORST robots, AI-powered no-code software, and modular micro factories merge into turnkey units that are **productive in four weeks** and **pay for themselves in less than six months**. fruitcore thus offers a unique approach that combines the technical expertise of an established robot manufacturer with solution implementation services.

The outstandingly intuitive **all-in-one automation operating system horstOS** covers not only the actual programming but also component set-up and process control – all centrally on the robot panel, without the need for PLCs or programming knowledge. For users, this means **quick understanding and use** of the automated application and minimal effort for project planning.

More than 1,000 robot systems delivered and hundreds of customers have proven the reliability and scalability of fruitcore technology for a decade. Whether camera-guided quality inspection, machine loading, flexible part separation, dosing, or pick-and-place – fruitcore robotics provides **simple and cost-efficient high-tech automation** that every company can implement itself. **This gives people and organisations valuable time to focus on what matters most.**

Version: May 2025

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