

Component Kits

Accessories and peripherals
ready to use

Economical. Flexible. Efficient.

Your advantages at a glance



Maximum efficiency from day one

With our component kits, we offer accessories and peripheral devices that you can integrate seamlessly and quickly into the Digital Robot HORST. Pre-programmed software and the appropriate adapters make installation easier.



Faster commissioning, higher productivity

Our Component Kits make it easy to get started with robot accessories: you get everything you need to use them. Component Kits are tested systems and save you the hassle of searching for the right accessories. The result: you can get started straight away!



Our professionals support you for the best result

When setting up the Component Kits, you benefit from the experience and expertise of our application engineers. Without having to delve deep into robotics knowledge, you can implement your project safely and error-free.

Our Component Kits



Robot Bases

Whether mobile or modular – our Robot Bases offer you the flexibility you need for your automation projects with HORST, including suitable accessories.



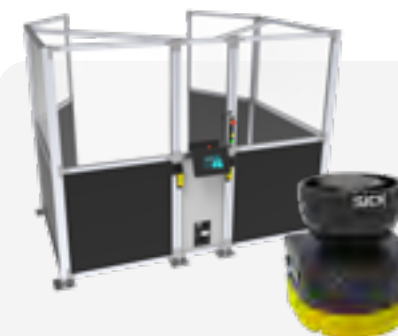
Gripping Systems

Choose the gripping system that best suits your application – with a full range of accessories so you can get started right away.



Material Feeding

Our tested components are perfectly matched to ensure smooth feeding and separation of components in your automation process.



Safety Technology

Protect your employees and safeguard your equipment with a wide range of flexible safety guards that comply with ISO 10218-2 safety standards.



Robot Guidance

Professional robot guidance systems with high-resolution cameras record the position data of your objects precisely and autonomously.



Robot bases

Mobile Robot Base

Our Mobile Robot Bases (MRB) give you a quick and safe start to your automation projects. You can choose between three different sizes and safety fence options. Additional protection in the safety area is provided by laser scanners. Anchor your MRB firmly to the ground if required or position it with repeat accuracy using an optional locking system.



Your advantages of the Mobile Robot Base



High flexibility in setup & operation

The base plate with M8 threaded inserts allows flexible positioning of your HORST and its accessories. The casters ensure that you can position your robot system easily and precisely on your system.



Quickly ready for use at low cost

Shorten your project times and reduce your costs considerably. We already prepare the cabling and professionally install the MRB for you, including the safety fence.



Safe and precise positioning

The MRB can be firmly mounted using the floor anchoring provided. An optional locking system allows the base to be positioned precisely and with repeat accuracy.



Security and organization

In addition to the robot, the MRB offers sufficient space for additional peripheral devices. Route cables safely and tidily via the flexible, strain-relieved cable gland.

Features of the MRB:

1. Baseplate with 100 mm x 100 mm M8 threaded grid and cable routing
2. Emergency stop
3. Slot for control unit insertion
4. Lockable door & storage space for additional peripheral devices
5. Mounting option for safety laser scanners

A MRB with safety fence also includes:

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



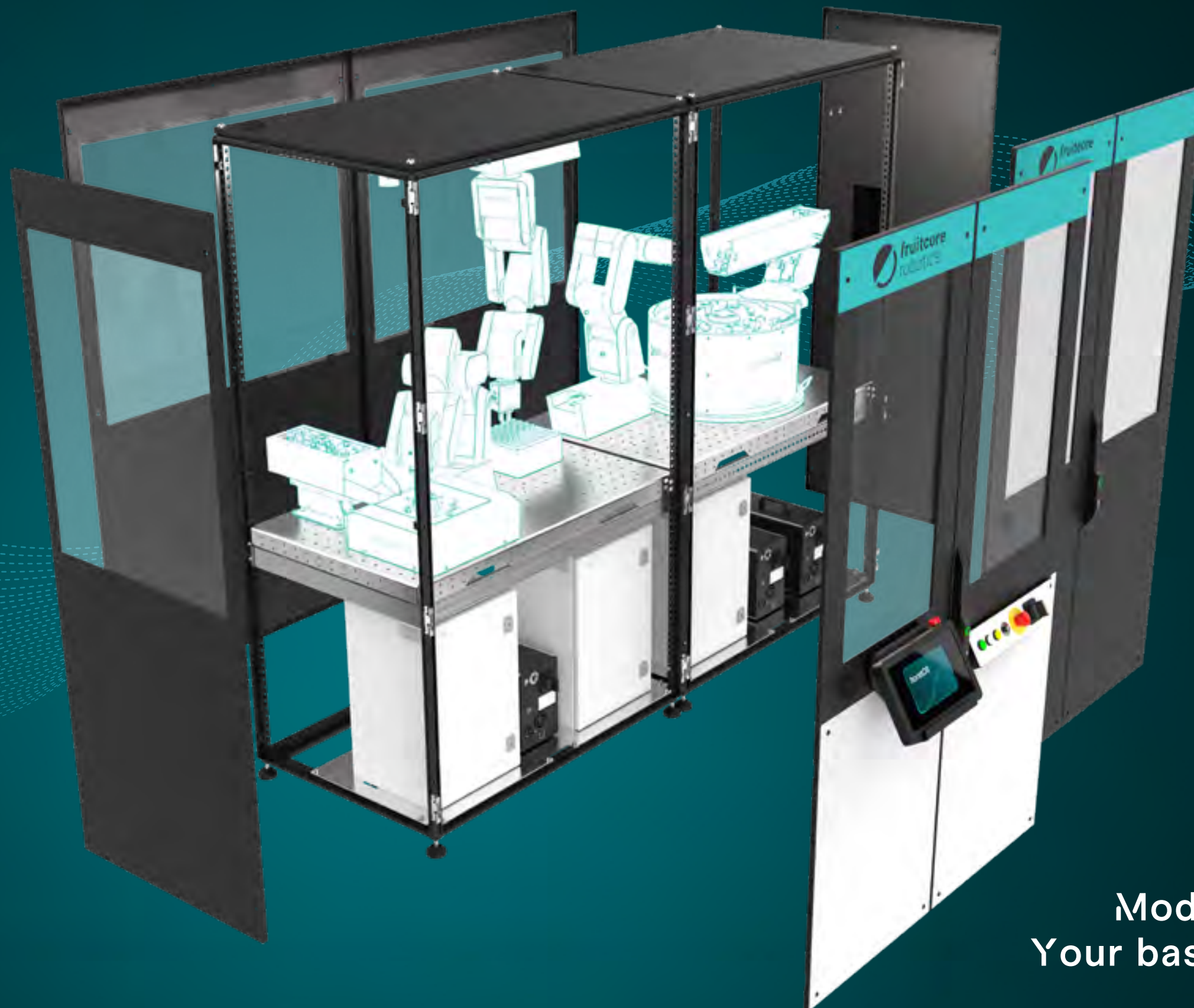
Mobile Robot Base - Further details

Designation	MRB S	MRB M	MRB 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
Payload Capacity	300 kg	280 kg	240 kg

Mobile Robot Base with safety fence and control console - Further details

Designation	MRB S with safety	MRB M with safety	MRB L with safety
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
Payload Capacity	250 kg	220 kg	165 kg

Limitless robotics for your individual needs cover boundless robotics!



horstCUBE
Modular and versatile
Your basis for all projects

Robot bases

Modular robot base horstCUBE

horstCUBE offers you maximum efficiency and simplicity when planning small and large automation projects. The platform is modularly expandable and offers you safety technology, an intuitive operating console, configurable side panels and a height-adjustable base plate that can be tailored precisely to your needs.



Your benefits with horstCUBE



Secure implementation of applications

horstCUBE offers proven safety and stability thanks to its robust design with a protected workspace and integrated safety interlock. This is how you can safely implement your applications.



Adaptability for your use case

horstCUBE is ideal for your specific requirements as the carrier plate can be mounted at different heights, allowing the robot to be positioned freely and supporting overhead mounting if required.



Expandability thanks to modularity

With horstCUBE, you can expand your automation environment by combining several units – ideal for creating larger security rooms or for running several processes in succession.



Ease of use

With the integrated control panel of horstCUBE, you can control your applications easily and securely, which significantly reduces the risk of operating errors via the panel.

Features of the horstCUBE:

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



horstCUBE standard configuration - Further details

Dimensions (L x W x H in mm)	1220 x 900 x 2060
Dimensions of control cabinet (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
Payload capacity	200 kg

horstCUBE - Configurator



Base module with base plate



Side panel 800 with window



Side panel 800 without window



Side panel 1200 with window



Side panel 1200 without window



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



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



Door 1200 without control console with window



Door 1200 without control console without window



Individual customizations (upon request)

Robot bases

The expandable robot base

Optimize your production processes with our Robot Base. It comes with a wide range of accessories, for example trays with or without legs and a positioning unit. This allows you to remain highly flexible, especially when loading the machine, and the robot can work autonomously for a long time. You can easily move the base including the robot using a pallet truck. Firstly, this speeds up the commissioning of your system. Secondly, you can make your machines quickly accessible if necessary.



Your benefits with the robot base



Stable structure

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



Convenient transport

Make it easier to install and maintain your robotic application with the Robot Base, which you can easily move with a pallet truck to quickly access your machines.



Versatile accessories

Take advantage of the flexibility of our Robot Base, which is equipped with optional accessories for machine loading and palletizing on Euro pallets for various applications.



Precise positioning

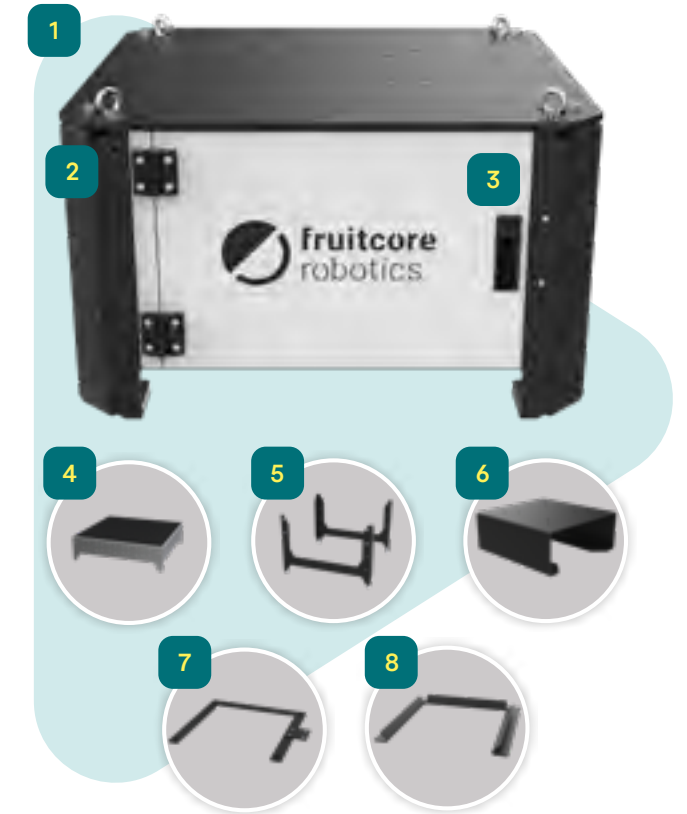
To make your machines accessible as quickly as possible, the Robot Base has an optional positioning unit. This allows you to easily move your robot and then position it again precisely and repeatably.

Features of the robot base:

1. Robot base with transport lugs
2. Side mounting grids for attaching tray holders
3. Lockable door & storage space for control and other peripheral devices

OPTIONAL ACCESSORIES

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

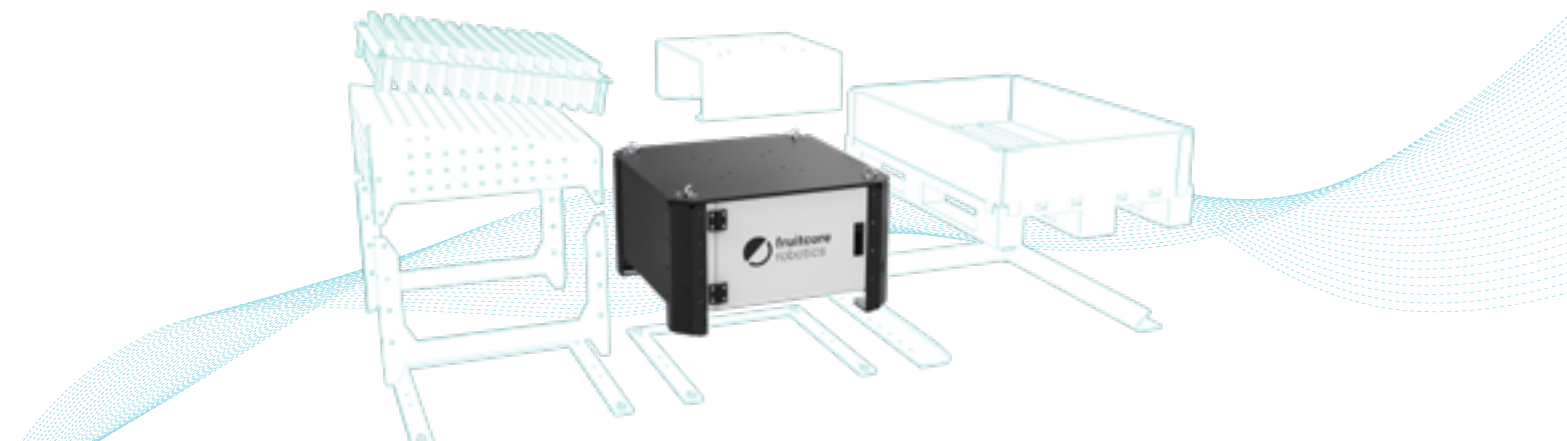


Standard configuration of robot base - Further details

External dimensions (L x W x H in mm)	792 x 792 x 482
Internal dimensions (L x W x H in mm)	764 x 764 x 362
Empty weight	160 kg
Load capacity	1000 kg

Robot base accessories - Further details

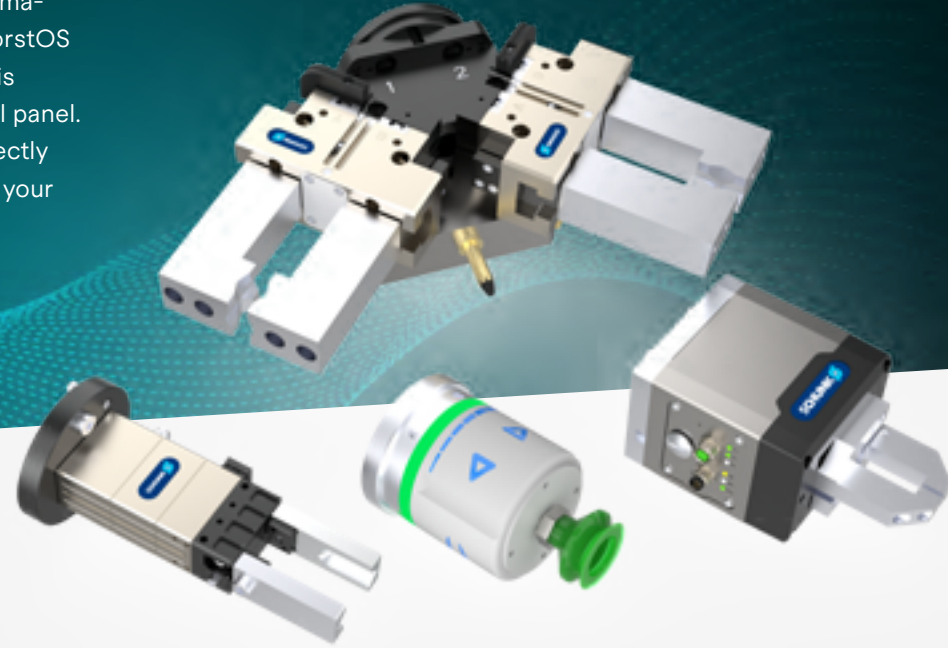
Dimensions of tray holder (L x W x H in mm)	672 x 672 x 119
Dimensions of tray holder with feet (L x W x H in mm)	680 x 680 x 482
Dimensions of riser for robot (L x W x H in mm)	500 x 500 x 200



Gripping systems

Maximum efficiency and immediate operational readiness

Our gripper systems save you time and increase your efficiency. The relevant system information is already integrated in the central horstOS control software and the gripper system is displayed realistically in 3D on the control panel. This allows you to control the gripper directly after assembly and immediately increase your productivity.



Your benefits with our ready-to-use gripping systems



Easy commissioning

By integrating the gripping systems as 3D models in horstOS, we guarantee fast and error-free commissioning in your process.



Fast start

With our gripping systems, you can start immediately and are ready for use without any integration effort. You receive these systems as a kit including mechanical adapters, electrical wiring and a set of gripper jaws or suction pads.



Professionally validated selection

Our gripping systems have been extensively tested and validated by our application engineers to ensure optimum performance in your automation projects.



Direct access to expertise

Our application engineers offer sound advice and support to ensure that your gripper systems are optimally configured for your robot applications.

With a gripping system kit, you receive:

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



Gripping systems - Further details

	Typ	Weight	Stroke	Part weight*	Application	Special feature
	2-jaw parallel gripper (electric)	320 g	6 mm	0.7 kg	Pick & place Part separation	Compact, cost-effective
	Small parts gripper (electric)	620 g	26.5 mm	0.3 kg	Pick & place Part separation	Component variance, variable stroke
	Double gripper 64 (pneumatic)	1620 g	6 mm	1.75 kg per gripper	Machine tending	Best cycle time, lightweight parts
	Double gripper 80 (pneumatic)	2100 g	8 mm	2.75 kg per gripper	Machine tending	Best cycle time, heavy parts
	Vacuum suction gripper (electric)	230 g	-	1 kg	Pick & place Part separation	Integrated vacuum pump

*Recommended part weight. Higher part weights are possible in consultation with our application engineering.

Material feeding

Accessories for flexible material feed

Start your parts separation with robots smoothly with our accessories. Our three variants cover a wide range of tasks. This way, you too will find the best solution for your application.



Your benefits for material feeding



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 optimum solution for your needs with our versatile variants. Access the Component Kits that match your requirements (e.g. the nature of your parts, their provision and the part variance).



Everything from a single source

Optimize your production with our coordinated, pre-wired components, which make integration and commissioning much easier.



Comprehensive support

Benefit from our on-site support to choose the right components for your automation and achieve the best results.

With a material feed kit you receive:

1. Robot guidance system
2. Vibratory hopper
3. Feeding system
4. Control cabinet - power supplies and controllers of all involved components are fully wired in the delivery state



Further details on our recommended variants:

	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 1kg
Part provision	Via bulk material in vibratory hopper and feeding system	Via bulk material in vibratory hopper and feeding system	Via conveyor belt or stacked in a blister or crate
Part variance	Parts with distinct outer contour	More complex, reflective components with variable outer contour	Parts of various geometries and sizes, including challenging surfaces
Components	Vibratory hopper, Varioshaker, SICK robot guidance system	Vibratory hopper, Flexibowl and Grasping Kit from SCHUNK	Ensenso robot guidance system



The Digital Robot Platform from fruitcore robotics offers you everything you need for optimal automation – from project planning to operation. Our offering for you includes not only high-performance industrial robots, but also a central control software, pre-configured automation modules and comprehensive services.

Your advantages:

- **Maximum efficiency:** Minimize your acquisition and maintenance costs while maximizing service life. The usual ROI is less than 6 months.
- **Maximum flexibility:** Thanks to simple setup and programming, you can reprogram or modify your processes in less than 60 minutes, even without expert knowledge.
- **Maximum efficiency:** Our patented modular construction kit concept enables quick and easy project planning - with only 15 % of the usual effort compared to conventional integration.

The Digital Robot Platform from fruitcore robotics helps you to easily implement the following tasks, among others: Camera-supported quality inspection, machine loading and unloading, dosing and bonding, flexible parts separation and pick & place processes.

Version: V 240917

The information in this flyer is non-binding and for information purposes only. It does not constitute a binding offer. Products and services are subject to change without notice. No liability is assumed for the accuracy and completeness of the flyer information. Our current General Terms and Conditions can be downloaded from our website.

fruitcore robotics GmbH
Macairestraße 3
78467 Konstanz/Germany

fruitcore-robotics.com
+49 (0)7531 97624 36
horst@fruitcore.de

Follow us on

