fruitcore
robotics

Everything from one source!
The Digital Robot Platform

Economical. Flexible. Efficient.

Your advantages at a glance

✓

Highest efficiency in the entire industry

Our patented drive technology, with 18 % higher efficiency and up to four times longer service life, enables the lowest purchase and maintenance costs.

✓

Highest flexibility in production

With the single point of control of our central control software, we offer the fastest as well as easiest setup and programming for all process participants.

✓

Highest efficiency in project planning

Our pre-configured automation modules and modular construction kit not only enable the simplest and fastest project planning, but also prevent additional costs.
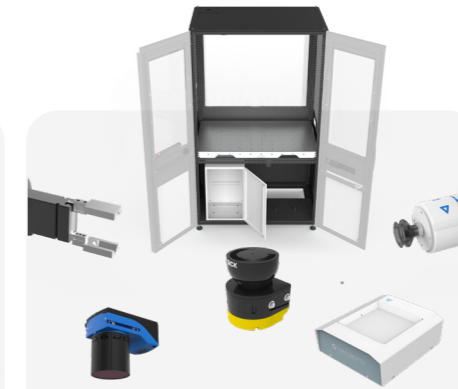
Our Products & Services

Digital Robots

Three robot models including control, operating panel and software, ideal for a wide range of industrial applications.

Component Kits

Seamless integration of robot accessories and bases thanks to mechanical adapters, plug-in components and interfaces.

Solution Kits

Automation modules with CE certification and completed risk assessment, specifically tailored to production scenarios.

Software

Central control software with graphical user interface for intuitive operation of each component and the entire process.

Services

Individual support at eye level, including feasibility analysis and comprehensive expert support at application level.

Intelligent industrial robots

With Digital Robot HORST, you can rewrite your automation history. We support you in the process. Our innovative robot technology offers you maximum efficiency and industrial performance around the clock. Our central control software also enables the fastest setup, effortless programming and intuitive operation of every component and the entire process.

With a Digital Robot you get:

1. Digital Robot HORST600, HORST1000 or HORST1400

2. Control in compact design

3. Operating panel with USB ports for mouse and keyboard

4. Central control software horstOS

Your advantages with Digital Robots

✓ **Highest efficiency on the market**

thanks to our coupling gearbox, which uses stepper motors and planetary gears for optimum power transmission.

✓ **Guaranteed longevity**

Maintenance-free gear technology with the best efficiency in robotics and wear-independent precision due to the arrangement of the angle encoder on the output.

✓ **Highest flexibility**

Most efficient process control without switching between different operating devices. Best support through our AI Copilot.

✓ **Highest efficiency**

Our automation modules offer ready-to-plug-in control solutions for seamless integration without additional PLC.

Technical data

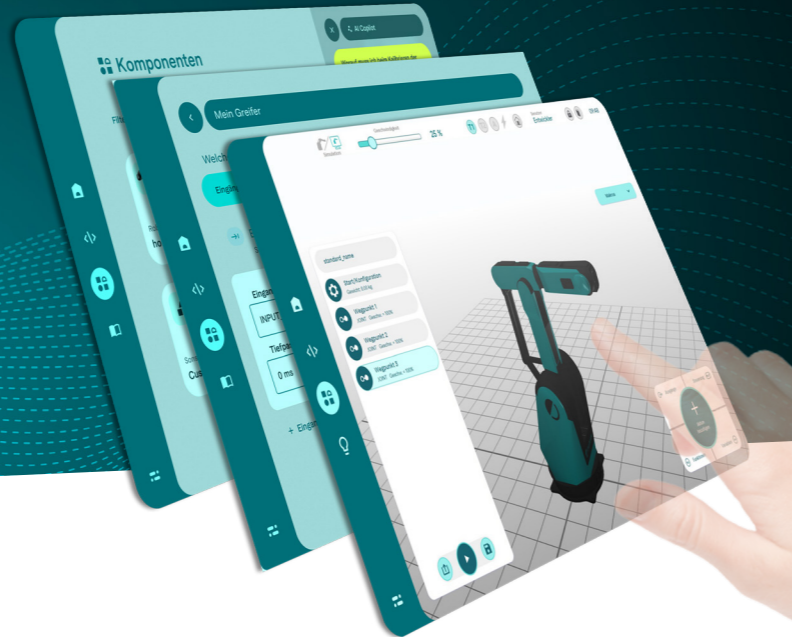| Digital Robots	
HORST600	Load capacity: 3 kg | Reach: 584 mm | Repeatability: ± 0.05 mm | IP54
HORST1000	Load capacity: 8 kg | Range: 1018 mm | Repeatability: ± 0.05 mm | IP54
HORST1400	Load capacity: 12 kg | Range: 1425 mm | Repeatability: ± 0.1 mm | IP54
Control	
Dimensions	313 mm x 174 mm x 446 mm
Number of I/O	20 inputs | 18 outputs (24V/7A)
Number of safety I/O	6 safety inputs | 8 safety outputs (2 channels each and configurable)
Interfaces	Profinet, Modbus, XML-RPC, Euromap67 (optionally available)
Panel	
Dimensions	331 mm x 215 mm x 73 mm
Display	13.3" Touchscreen (Full-HD)
Controls	Safety-relevant emergency stop, 3-point enabling switch
Software	
horstOS	Central control software with component management, graphical program generation and simulation with digital twin, process control and AI co-pilot.

Central control software horstOS

Turn your automation into a versatile and user-friendly solution with Digital Robot's central control software - your key to easy automation. The central control software enables straight-forward component setup, intuitive programming of individual processes and flexible control of the entire system.

Component Management

Fast creation of components with Auto-Complete. Time saving during initial set-up or change of process flow as well as in case of error, thanks to Single Point of Control.

Program Generation

Program creation graphically or textually, depending on know-how and complexity, including meaningful simulations and feasibility analyses in the 3D world.

Process control

Efficient process control and minimization of the potential for errors due to operator errors via a customized view for process control.

AI Copilot

Help without support calls through real-time context-sensitive answers. Error detection & correction suggestions help for fast troubleshooting.

Your advantages with horstOS

Fastest integration

with the manufacturer-independent „Component Management".

Simplest programming

with the graphic „Program Generation" by means of digital twin and 3D world.

Most efficient process control

with the „Process Control" for an individualized user interface.

Best support

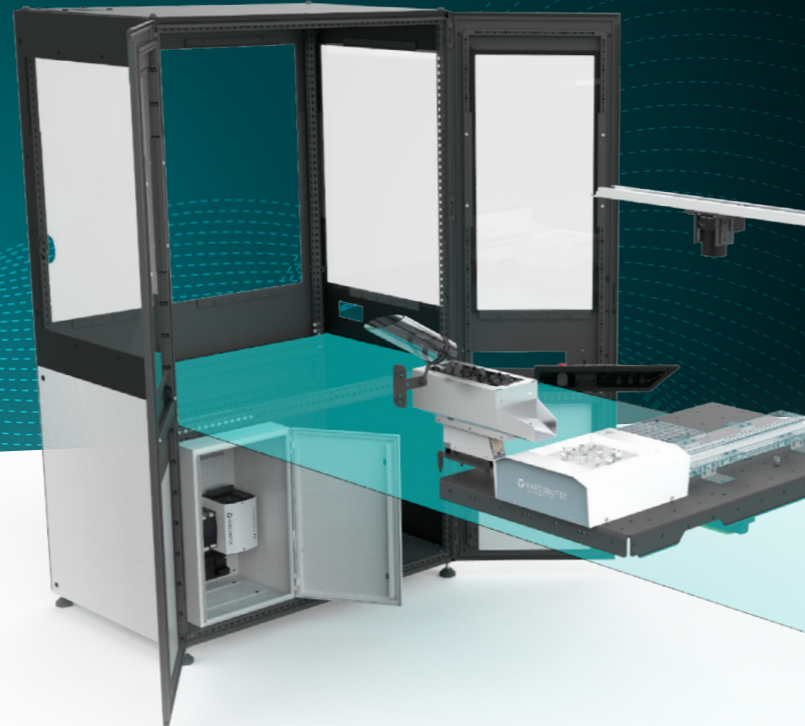with the „AI Copilot" in real time based on ChatGPT.

IIoT-Platform

High process reliability thanks to program backups, over-the-air updates, predictive maintenance and remote support. Keep an eye on your robot fleet, booked services and the progress of your service requests at all times.

Accessories ready for use

Benefit from our already configured and pre-configured accessory solution, the Component Kits. Achieve maximum efficiency in the project planning of individual automation solutions. Thanks to mechanical adapters, ready-to-plug-in components, and predefined interfaces and programs, you get a modular kit that merges seamlessly with our central control software.

Your advantages with Component Kits

Everything from one source

The selection of component kits is optimally coordinated so that a wide range of applications can be realized with the components and Digital Robot HORST.

Simplest installation

Component Kits can be installed on the robot in just a few minutes. All necessary accessories for mounting and cabling with HORST are already included in the kit.

Most efficient integration

Thanks to sample programs and comprehensive documentation, component kits can also be quickly set up on the software side and integrated into the program flow.

Uncomplicated processing

With the Component Kits from fruitcore robotics you simplify the purchasing process for your automation project.

Robot Bases

	Mobile Robot Base (MRB)	MRB S, MRB M and MRB L (optionally with safety scanner)
	Mobile robot base with security fence	MRB S, MRB M and MRB L with safety fence & control panel
	Modular robot base horstCUBE	Expandable robot base with safety technology, operating console and height-adjustable base plate

End of Arm

Ready to use

	2-Jaw parallel gripper (electric)	Electr. 2-finger gripper incl. standard set of gripper jaws, adapter, screws, connection cable & assembly instructions.
	Vacuum suction pad (electric)	Electr. vacuum generation incl. 2 suction pads, adapter, screws, connection cable and mounting instructions.
	Double gripper with blow-off unit (pneumatic)	2x electr. 2-finger gripper with standard set of gripper jaws, blow-off unit, adapter, screws & assembly instructions.

Camera & Safety

Ready to use

	Camera for 2D part detection
	Safety laser scanner

Others

Ready to use

	Part Separation Kit
	Education Package

Automation modules with CE certification

Ready to use

Are you aiming for maximum efficiency in planning as well as the shortest installation and changeover times? Our preconfigured Solution Kits offer you the solution. The CE-certified automation modules are specifically tailored to your production scenarios. You get everything you need for fast integration into your workflows and processes and are also extremely flexible.

Your advantages with Solution Kits

✓ **Safe operation according to ISO 10218-2**
with completed risk assessment and CE certification.

✓ **Lowest project cost and time**
with predefined programs, interfaces and ready-to-plug-in control solutions.

✓ **High reliability & cost transparency**
with free feasibility studies on the real system.

✓ **High flexibility**
through modular robot base and flexibly applicable function modules.
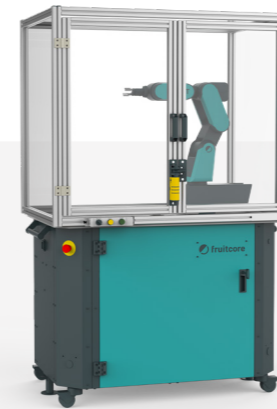
✓ **Return-on-Investment within 6 Monaten**
Effective cost savings with a payback period within six months.

✓ **Simple control without additional PLC**
Control via central control software for robots and components.

Our Solution Kits

Pick & Place
The best basic equipment for a safe, flexible, fast and easy entry into robot-based automation solutions.
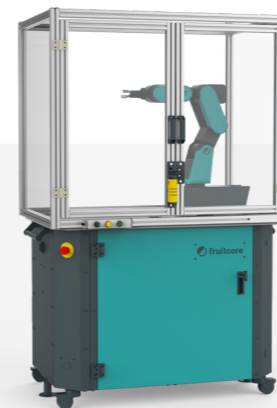
Part Separation
Flexible part separation suitable for a wide variety of parts and expandable for subsequent handling tasks.

Machine Tending
Best cost efficiency and flexibility for feeding machines. With this complete package, you will increase your productivity in the shortest possible time and remain flexible.

Education
The perfect introduction to robotics for educational institutions and training companies. The package includes teaching material, a training application and desktop licenses for offline programming.

Individual Solution Kits
Your individual Solution Kit! Contact us to discuss your individual requirements for our Solution Kits with our experts for intelligent automation.

Individual support at eye level

Our range of services enables you to efficiently project your automation projects at the industry's best lifecycle costs. Thanks to our comprehensive training offering, you can quickly get started with robotics as well as with new topics.

Our services

Robot Services

In addition to software updates and warranty extensions on the entire robot system, our Care packages also include a wear parts warranty and technical advice from qualified robot experts.

Training Services

In addition to our Academy, we offer basic online training and a variety of additional training courses in the areas of textual programming, interfaces and security technology.

Kit Services

Based on our Solution Kits and Component Kits, we provide support for feasibility analyses, assembly, cabling, setup and configuration of our automation modules.

Your advantages with our services

Best life cycle costs

in the entire robotics industry can be achieved with our Care Package. For highest availability we recommend our Care Plus Package.

Most efficient project planning

thanks to feasibility studies with individual support in the implementation of automation solutions.

Easiest entry

into robotics and new subject areas is made possible by our diverse range of training courses. This includes webinars, on-site training and our Academy.

Highest qualified support

during integration, thanks to the extensive know-how in automation processes of our partner network.

✓ Cost efficiency through maintenance service and lifecycle management with IIoT platform

✓ Feasibility studies reduce project implementation risk and ensure success

✓ Customized solutions: Project planning support enables customer-specific automation solutions

fruitcore robotics

The Digital Robot Platform from fruitcore robotics offers you all the building blocks for optimal automation from project planning to ongoing operation. It includes not only intelligent industrial robots, but also central control software, preconfigured automation modules and supporting services.

You will benefit from:

- Highest economic efficiency due to minimal acquisition and maintenance costs with a long service life - usual ROI in less than six months

- Highest flexibility through fastest and easiest setup as well as programming without coding expertise - reprogramming and new process in less than 60 minutes

- Highest efficiency due to simplest and fastest project planning with patented module construction kit - only 15 % of the usual effort compared to standard integration on the market

The Digital Robot Platform from fruitcore robotics simplifies the implementation of various processes for you, including camera-based quality inspection, machine loading and unloading, dispensing and gluing, flexible parts separation, and pick and place tasks.

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