



Ready
to use

Solution Kits

Automation modules ready to use immediately

Economical. Flexible. Efficient.

Your advantages at a glance



High Flexibility

through modular robot platform and flexibly usable functional assemblies, such as docking stations and various peripherals.



Safe operation according to ISO 10218-2

with completed risk assessment and CE certification.



High reliability & cost transparency

with free feasibility analysis on the real system.



Lowest project cost and time

with predefined programs, interfaces and ready-to-plug-in control solutions.



Return on investment within 6 months

Effective cost savings with a payback period within 6 months.



Simple control without additional PLC

Control of the entire Solution Kit via central control software for robots and components.



We use the inspection cell for technological feasibility analysis and innovations in product development and are enthusiastic about them. A Solution Kit can be put into operation, programmed and operated quickly and easily without any special prior knowledge.



Robert Meißner

Senior Expert Manufacturing Technologies, Research & Development at fischer group of companies

Our Solution Kits



Pick and Place

The best basic equipment for a flexible, quick and easy entry into robot-based automation solutions.



Part Separation

Flexible parts separation directly operational and very well expandable for subsequent handling tasks with the robot used.



Machine Tending

Best cost efficiency and flexibility for loading machines. With this complete package, it is possible to increase productivity in the shortest possible time and remain flexible.



Education

The perfect introduction to robotics for educational institutions. The package includes teaching material, a training application and desktop licences 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.

Solution Kit Pick and Place

Parts handling

Do you want to automate your production processes as smoothly and efficiently as possible? Our Solution Kit Pick and Place offers you maximum flexibility and customisability, the lowest project costs, simple processing and a quick start thanks to our pre-assembly.



Ready to use

Your advantages at a glance



High flexibility and customisability

It can be easily modified and attached to machines. In this way, it can be adapted as required and also used for changing tasks.



Lowest project costs

With the Solution Kit Pick and Place, you can start your automation project with calculable costs.



Simple handling

The Solution Kit Pick and Place is a perfectly coordinated automation module consisting of robot, platform, safety technology and gripping system - all from a single source.

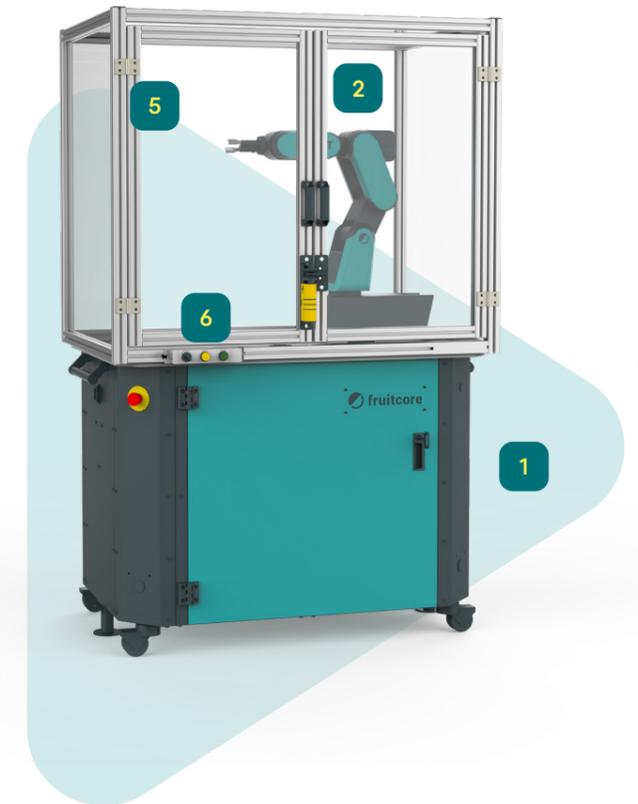


Quick start due to pre-assembled unit

It is delivered fully assembled and can thus be easily integrated on site. The pre-assembly includes the installation of the robot, the assembly of the gripper and the wiring of the safety locking device and the operating console.

With this Solution Kit you receive:

1. Mobile Robot Base (MRB) S, M or L with safety fence
2. Digital Robot HORST600 or Digital Robot HORST1000
3. Robot control (not shown)
4. Operating panel (not shown)
5. 2-jaw electric parallel gripper or electrical vacuum suction gripper
6. Operating console



More details

Dimensions of MRB 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 MRB with safety fence

141 kg (size S)
176 kg (size M)
235 kg (size L)

Load capacity of MRB with safety fence

250 kg (size S)
220 kg (size M)
165 kg (size L)

Recommended components

HORST600/HORST1000, Mobile Robot Base with safety fence, safety locking device, operating console and electrical parallel jaw gripper incl. standard jaws for industrial applications or electrical vacuum suction gripper

Solution Kit Part Separation

Part Separation

Our Solution Kit Part Separation enables seamless integration into existing processes through pre-assembly and pre-configured software. Relieve your staff and increase throughput with full cost control. The customised complete solution helps you to meet your specific challenges in parts separation and react flexibly to changes.



Ready to use

Your advantages at a glance



Quick set up of new parts

The pre-configured software graphically maps the complete process sequence and allowing new components to be taught in within a few minutes and errors in the sequence to be quickly corrected.



Pre-assembled and pre-calibrated

It is delivered fully assembled mechanically and electrically. In addition, the system is set up on the software side so that a defined component can be fed, recognised and gripped by the robot.



Cost control and predictability

With the Solution Kit, you start your automation project with calculable costs. Thanks to standardisation, it is available with short delivery times.



Simple handling

The Solution Kit Part Separation is a perfectly matched automation module for the flexible separation of various parts - and all from a single source.

With this Solution Kit you receive:

1. Robot platform horstCUBE with safety locking device
2. Digital Robot HORST600
3. Robot control
4. Feeding and part separation
5. Camera
6. 2-jaw electric parallel gripper or electrical vacuum suction gripper
7. Operating console
8. Individual part output (optional)
9. Switch cabinet for the integration of additional peripherals
10. Operating panel (not shown)



Application specification

Part specifications

5 - 50 mm / 5 - 200 g

Setup of new parts

approx. 15 min (also without previous knowledge)

Part variance

Recognition and gripping of different parts from one bulk material possible

Feasible cycle time

up to 5 sec.

More details

Dimensions

1120 x 900 x 2060 mm

Total weight

ca. 400 kg

Components

HORST600, robot platform horstCUBE with safety locking device, operating console, Varioshaker270, vibration hopper 5L and parallel gripper

Solution Kit Machine Tending

Machine loading and unloading

Are you looking for a cost-efficient and flexible way to automate the loading of your machines? With this complete package, you can increase your productivity in the shortest possible time with low project costs and full flexibility. The Solution Kit can be used on all common tool machines and ensures efficient operation with short loading times.



Ready to use

Your advantages at a glance



Lowest project costs and time

with predefined programmes and prepared, electronic interfaces for WZM via Harting connectors.



High flexibility

by mobile robot platform with repeatable fasteners and a base plate with 100x100 mm grid of M8 tapped holes.



High compatibility

with common tool machines through standardised interfaces and control via the robot operating software horstFX without a separate PLC.

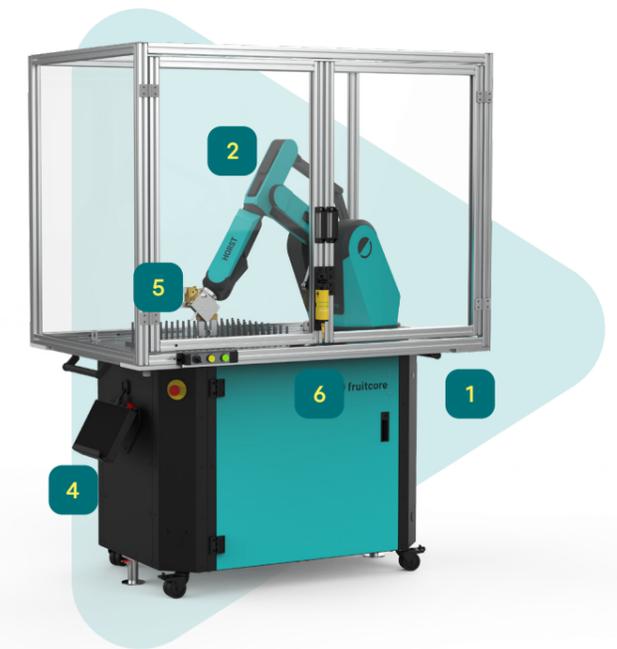


Low downtime of the tool machine

with only approx. 12 seconds of machine intervention time between the end of machining and the new start of machining, including blowing off the finished part and the collet.

With this Solution Kit you receive:

1. Mobile Robot Base (MRB) L with safety fence
2. Digital Robot HORST1000
3. Robot control (not shown)
4. Operating panel
5. Double gripper with blow-off unit
6. Operating console



Application specification

| | |
|-------------------------------|---|
| Handleable part weight | max. 3 kg (recommended 1.75 kg) |
| Reach in machine | 500 - 700 mm depending on screw-on position |
| Loading time | approx. 12 seconds (incl. removal, blow-off and insertion) |
| Recommended tray size | 500 x 500 mm - square 600 x 400 mm - rectangular |
| Autonomy time | approx. 60 minutes based on 100 parts, 12 seconds placement time and 20 seconds machine processing time |
| Compatible machines | Emco, Hurco, Haas, Trumpf, Foba and many more |

More details

| | |
|---------------------|---|
| Dimensions | 1500 x 1103 x 2054 mm |
| Total weight | ca. 312 kg |
| Components | Digital Robot HORST1000, Mobile Robot Base L with safety fence and safety guard locking, operating console, double gripper with blow-off unit |

Solution Kit

Education Platform

Are you a company providing trainings, an educational institution or a university and would like to introduce robotics and automation to your trainees or students? We also offer a Solution Kit for this purpose.



Ready to use

With this Solution Kit you receive:

- ✓ Configurable Solution Kit Pick and Place
- ✓ Comprehensive training material
- ✓ Online training especially for teachers
- ✓ Training application for playful learning the programming of the Digital Robot HORST
- ✓ horstFX software licences and access to the online Academy for a school class



Your advantages at a glance



Perfect start for educational institutions
through the best basic equipment for a quick and easy entry into robot-based automation solutions.



Shortest training period for teachers
through online training especially for teachers as well as through comprehensive training material.



Flexible lesson structuring
with licences for the robot programming software horstFX and access to the online Academy for one class.



Mobile use and high flexibility
due to Mobile Robot Base, 230V power supply and external dimensions for common door dimensions.

Overall learning objectives

- ✓ Installation, set up and safe operation of robot systems
- ✓ Creating own programmes based on training applications
- ✓ Integration of external sensors and control of external components





The Digital Robot Platform of fruitcore robotics offers you all modules for optimal automation, from project planning to ongoing operation. It includes not only industrial robots, but also a central control software, pre-configured automation modules and supporting services.

You benefit from:

- Highest economic efficiency due to minimal acquisition and maintenance costs with a long service life - usual ROI in less than 6 months
- Highest flexibility through quickest and easiest set-up as well as programming without coding expertise - reprogramming and new programming of the process in less than 60 minutes
- Highest efficiency through the simplest and fastest project planning with patented preconfigured automation modules - only 15 % of the usual effort compared to standard market integration

The Digital Robot Platform of fruitcore robotics makes it easy for you to implement camera-based quality inspection, machine loading and unloading, dosing and gluing, flexible parts separation and pick and place processes.

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