

MAXOLUTION® parallel arm kinematics kit

Simple – efficient – precise



Modular kinematics systems – Build your own parallel kinematics robot

The industry has an ever growing demand for higher flexibility, precision and time-efficiency. Stakeholders appreciate when they get reliable modules and support straight-forward from one manufacturer. To meet this demand, SEW-EURODRIVE now offers kits for parallel kinematics robots as mechatronic subsystem. These kits consist of a control package, axis package and manufacturer-independent mechanics component.

You can easily integrate the new MAXOLUTION® parallel arm kinematics kit into your production processes or use it as a stand-alone solution. The modular structure and independent design of the individual system packages provide you with the opportunity to realize perfectly coordinated kinematics in just a few simple steps.

Furthermore, the new parameterizable software module MOVIKIT® Robotics allows for a quicker and easier startup. The new MAXOLUTION® parallel arm kinematics kits can be combined with other components as well as used individually depending on the level of automation required by the customer.

As with all our solution packages, we rely on highly modern drive technology components by SEW-EURODRIVE. The mechatronic parallel arm kinematics kit consists of 3 individual packages:

1 Controller package:

- Controller, e.g. MOVI-C® CONTROLLER UHX85A-R
- Power supply module
- Visualization and software:
MOVIRUN® software platform, as well as MOVIKIT® Robotics software module from the modular automation system MOVI-C®

2 Robot axis package:

- Axis module, e.g. MOVIDRIVE® modular
- Servomotors, e.g. synchronous motors from the CMP.. series including cabling

3 Robot mechanics package:

- Robot mechanics including servo gear units



Kinematics sys

The highly diverse MAXOLUTION® parallel arm kinematics kits offers many advantages for OEMs and users:

EASY: The easiest way of programming via parameterizable software modules of MOVIKIT® Robotics incl. 3D simulation. The pick-and-place control modules are PackML-compatible (PackML = Packaging Machine Language).

GREEN: Three component optimally coordinated packages allow for resource-conserving, efficient solutions.

SMART: Open, preprogrammed interfaces for optimal integration of standard peripherals, camera systems and grippers.

SAFE: Hygienic design is already possible both in the basic version and as a special design with enclosed stainless steel housing.

The best thing is: Together with you, SEW-EURODRIVE looks into your entire machine to find the best solution for your specific application. Our focus herein lies especially on applications for food and beverage production, packaging technology, and intralogistics handling systems.



SEW-EURODRIVE offers complete kinematics solutions from one source. Our parallel arm kinematics kit combines standardized mechanics with a modular system of software modules and drive technology that can be extended by external components as required.

Standard variants of the parallel arm kinematics kit

Number of arms	Rotary axis	Inclination axis	Work envelope ¹⁾²⁾		Load capacity	Cycles per minute
2	Optional	-	1000 x 342 mm		30 kg	50
			1500 x 347 mm		35 kg	45
3	Optional	-	800 x 250 mm		3 kg	200
			1100 x 250 mm		3 kg	180
			1300 x 250 mm		3 kg	150
			1600 x 350 mm		12 kg	100
3	Optional	Standard	800 x 250 mm		1.5 kg	130
			1300 x 250 mm		1.5 kg	120

¹⁾ 2 arms: Width × height ²⁾ 3 arms: Diameter × height

SEW-EURODRIVE is right there for you

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