



MAIROFlex iisy

11 kg

Because iisy is simply easy

The MAIROFlex iisy is one of the most flexible automation solutions on the market and has the widest range of applications in this field. The all-rounder from MAIROTEC® is designed for use in almost all market segments - from the metal industry to the craft sector to the medical sector.

HIGH PERFORMANCE FOR MAXIMUM FLEXIBILITY AND LOW TOTAL COST OF OWNERSHIP

The MAIROFlex iisy was developed based on MAIROTEC's experience in the diverse world of automation. The result: a reliable, versatile and efficient quality solution for your production environment. Customers benefit from the uniquely wide range of applications of the MAIROFlex iisy, which impresses with its performance, costeffectiveness and flexibility. A lean modular system promises precisely fitting and flexible cobots, fast delivery times as well as low total cost of ownership - for example through minimised maintenance effort, a reduced number of spare parts as well as an optional 5-year full warranty including maintenance and wear parts.

Benefits



11 kg
Load Capacity



1300
Reach in mm

Best In Class

With the MAIROFlex iisy, MAIROTEC presents a collaborative automation solution that sets standards through the sum of innovative features - for both classic and digitalised production worlds. The result goes far beyond technical details and also includes long-term aspects such as the simplification of commissioning, maintenance effort and process optimisation of the system.

One for All

As the world's first collaborative multiflex solution, the MAIROFlex iisy has a wide range of possibilities and options. In the area of material supply, there is a choice between pallets, wire mesh boxes, Euro crates or table attachments, among others. In the area of material detection, there is the classic fixed positioning or 2-D /3-D camera detection.



INXPECT 360°
Radar Inside



Maximum Flexibility

The MAIROFlex iisy impresses with the possibilities of different payloads and the advantages of a cobot as well as maximum performance and advanced design. A multitude of expansion options as well as an extremely small footprint ensure the highest possible flexibility in use as well as in application and system planning. The perfected working area in front of and behind the machine offers improved accessibility in a wide range of applications.

Sustainably Low TCO

MAIROFlex iisy impresses not only with maximum production efficiency, but also with its economical commissioning and maintenance concept. With top values in Meantime between failure as well as a reduced number of components in the complete modular system, the series sets standards on the market in terms of TCO. Downtimes and maintenance costs are minimised by the optional 5-year full warranty including service and spare parts. Thus, the MAIROFlex iisy series shines with a significant reduction in running costs.

Gripper System with Match Robotermodul

With the Match Robotermodul, Zimmer offers an END-OF-ARM-ECOSYSTEM for grippers. By installing the Match Robotermodul on the MAIROFlex iisy, you have a wide range of grippers available for the quick-change system. Whether parallel gripper, vacuum gripper or magnetic gripper - you can change in seconds to suit your application. We also offer the MATCH storage station for automated gripper changing. The SCM (Smart Communication Module) from Zimmer offers you the option of programming and configuring your grippers as required. Expand your MAIROFlex iisy with a wide range of options.



Grid Pattern and Force Control

Simplify your programming of pick and place, for example, with grid patterns. Easily program an entire grid by adding just a few points and parameters. MAIROFlex iisy then calculates how many rows and components you want to handle. Stacking several layers is also no problem. Force control allows you to move slowly to certain points until collision and the robot independently detects end position using force sensors. The forces are freely programmable. This helps when inserting parts, when searching for new levels and components or when picking up new points for further processing. Discover the new functionalities of MAIROFlex iisy and the constantly growing software options.

MAIROFlex iisy Pro



The MAIROFlex iisy Pro is more than just a cobot. With the integrated PLC ctrlX CORE from Bosch Rexroth and the additional safety controller ctrlX SAFETY, the possibilities are virtually unlimited. "One controller for everything" means less engineering and components and higher productivity at the same time. The ctrlX CORE is the heart of ctrlX AUTOMATION modular automation system and the nucleus for digital industrial control of the future.



Integrated PLC ctrlX CORE

The ultra-compact and high-performance ctrlX CORE control platform solves around 70% of all general automation tasks. The modular ctrlX COREplus variant offers extended fieldbus interfaces and the option of adding I/O modules. These functional extensions are used for horizontal and vertical machine integration, among other things. This opens up new possibilities for users in terms of connectivity and networking. ctrlX SAFETY is the most responsive and compact safety solution of its kind. It is a compact yet scalable system that can be deployed as required.

ctrlX CORE is the most integrated, flexible and open system in the industry. It offers numerous features at all levels - from design and performance to software and networking.



Camera System for 2D or 3D Bin Picking

Standardized Bin Picking function packages. Thanks to Roboception's CAD model and 3D/2D vision systems, we offer a low-cost solution with predefined components for parts of different sizes. We have various modular solutions to maximize flexibility, efficiency and employee relief in your company with bin picking or 2D applications. We equip them with the necessary components to ensure an effective and smooth transition so that you can benefit from these advantages.

The perfect combination of AI-based 3D object recognition and precise and fast robot path planning.



Technical Data

Model	MAIROFlex iisy
Load capacity table	500 kg
Load capacity robot	11 kg
Reach	1300 mm
Protection class	IP 54
Weight base approx.	290 kg
Grid pattern and Force control	Yes
Radar Safety System	Yes
2D/3D Camera Option	Yes
Pallet attachment Option	Yes
Zero-point Clamping System Option	Yes
Table attachment Option	Yes
Automated Gripper Changing Option	Yes
L x W x H ca.	1459 x 1050 x 1250



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