

Rexio

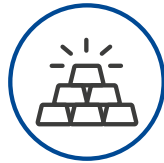


**Your key  
to automation**

# OPEN YOUR COMPANY TO NEW POSSIBILITIES WITH AUTOMATION



INCREASED  
PRODUCTIVITY



REDUCED  
COSTS



IMPROVED  
PRODUCTION  
FLEXIBILITY



INCREASED  
SAFETY



QUICK RETURN  
ON INVESTMENT



COMPETITIVE  
ADVANTAGE



We offer comprehensive turn-key solutions, including the design of workpiece specific manufacturing cells, their production and start-up as well as training and after-sales services.



Our mission is to improve manufacturing processes while optimizing the involvement of human potential.

With a team of highly-qualified designers, automation and robotics engineers we transform our ideas into innovative systems to improve efficiency, accuracy and reduce costs of manufacturing. We design the solutions you need, whether you are a small, medium or large enterprise. The functionality of offered technological solutions and client satisfaction are our priority, therefore as a division of Metal Team - one of the leading suppliers of advanced solutions for machining industry in Poland - we provide comprehensive services.

You can choose from a wide range of REXIO® systems: **REXIO® DRAWER, REXIO® MINI, REXIO® FEED** and **REXIO® PALLET** for use in robot cells. We provide integration with available machines (in particular CNC machines), easy programming, safety and multi-tasking and as a result reduced manufacturing costs due to increased process efficiency. We use the highest quality components to offer the most reliable solutions.

We can make your vision in automation of manufacturing processes a reality, get in touch and take the first step forward with us.



## GUARANTEED USER-FRIENDLINESS

A high-quality HMI control panel guarantees quick and easy operation. An intuitive interface allows even employees without experience and know-how in robotics to work with the device while an easy to use program creator reduces the retooling time to a minimum.

The connection between the robot, the machine and the external devices allow the production cell to be controlled from one place.



# REXIO® DRAWER

COMPACT ROBOTIC PALLET SYSTEM FOR CNC MACHINES

REXIO® DRAWER is ideally suited for mass machining, where it is crucial to minimize machine downtime. Thanks to the use of up to six pallets, which extend in both directions without interrupting the work of the cell, REXIO® DRAWER can load a large amount of workpieces, which means you do not need to operate the device for several hours. Moreover, one operator is able to handle up to four systems at a time. REXIO® DRAWER is perfect for loading simple workpieces such as cylinders and cubes, as well as those with more complex shapes such as castings and forgings. The interchangeability of workpiece separators on the pallets allows the device to handle dozens of different workpieces. Its mobility, the configurability of its pallets as well as an extensive list of optional equipment make REXIO® DRAWER a bestseller, guaranteed to improve your production processes and increase profitability.

REXIO® DRAWER



## GENERAL SPECIFICATIONS

No. of pallets	3–6
Pallet dimensions	950 × 600 mm
Pallet load capacity	max. 120 kg
Workpiece height - 6 pallets	max. 85 mm
Workpiece height - 3 pallets	max. 205 mm
Overall dimensions	1300 × 800 × 2300 mm
Device weight - 6 pallets and robot	950 kg
Robot weight	max. 300 kg





## KEY FEATURES & BENEFITS

- easy to configure, no robot programming skills required
- ensures repeatable and accurate clamping
- compatible with any CNC machine with robot arm or robot interface support
- compatible with different robots: Fanuc, Kawasaki
- choice between 3, 4, 5 or 6 pallets
- compatible with up to 35 kg payload robots
- equipped with general purpose 2- or 3-finger grippers, adjustable to workpiece dimensions
- a mobile system with quick deployment
- ensure access to pallets without interrupting robot operation prompting safety and production continuity
- one system can support several CNC machines, several systems can be handled by a single operator



## APPLICATION

- for large production runs
- for short processing times
- for simple details as well as complex workpieces
- for medium frequency changeovers
- for milling machines and lathes
- up to a maximum of 3 machines

### STANDARD EQUIPMENT

- 3 pallets 990×600 mm, max. 40 kg/pallet
- Kawasaki or Fanuc robot, 10 kg payload capacity with operating space limit
- coolant drip pan (under pallets)
- pneumatic gripper and blow-off connection
- REXIO® coating RAL 9003
- main controller
- EC declaration of incorporation, operation and maintenance manual
- remote deployment support
- HMI control panel

### OPTIONAL EQUIPMENT

- pallet 990×600 mm, max. 40 kg/pallet
- pallet 990×600 mm, max. 120 kg/pallet
- pallet workpiece separator for specific application
- workpiece blow-off station
- workpiece deburring station with rigidity adjustment
- on-demand part inspection station
- dipping station
- vision system
- workpiece re-grip station
- 3-colour signal light column
- custom robot grippers
- Kawasaki or Fanuc robot with up to 35 kg payload
- security scanner instead of perimeter safety fencing
- design, installation, set-up, CE certification



# REXIO® MINI

## COMPACT ROBOTIC CNC MACHINE LOADING SYSTEM

REXIO® MINI is a compact system ideally suited for short production runs. The ease and speed of retooling the device is its main advantage. The robot has a payload capacity of up to kg. REXIO® MINI can be used for both lathe and milling machines. Accessible pricing guarantees rapid return on investment.

## GENERAL SPECIFICATIONS

Robot payload capacity	max. 35 kg
Pallet dimensions	1200 x 800 mm
Compatible robots	Fanuc, Kawasaki, Cobot
Overall dimensions	2100 x 1950 x 1380 mm
Device weight (incl. robot)	700 kg
Robot weight	230 kg

## APPLICATION

- for small and medium-sized production runs
- for simple workpieces
- for frequent machine changeovers in toolmaking
- for details requiring frequent adjustments on the machine
- for milling machines and lathes
- for one machine



**REXIO**  
MINI



## STANDARD EQUIPMENT

- Kawasaki, Fanuc or Cobot robot, 12 kg payload capacity and 1.4 m range with operating space limit
- safety scanner
- workpiece blow-off station
- two grippers and blow-off nozzle
- EC declaration of incorporation, operation and maintenance manual
- remote deployment support

## OPTIONAL EQUIPMENT

- custom robot gripping jaws
- dipping station
- workpiece re-grip station
- 3-colour signal light column
- workpiece deburring station with rigidity adjustment
- workpiece separator

## REPLACEABLE OVERLAYS AVAILABLE

### RAMP



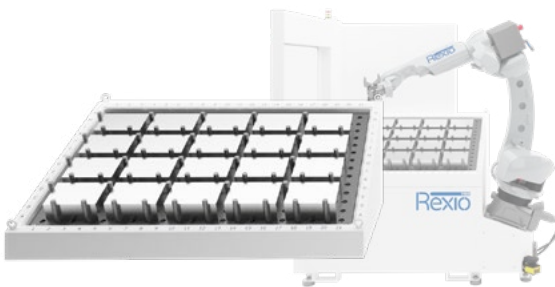
Ramp overlay used for round “roller” workpieces of different diameters without the need for a changeover. Thanks to the applied slope, the workpieces slide into the corner which makes their reference positioning easier. Mainly used to operate lathes.

### STOCKER



Stocker overlay for flat round workpieces. Extendable positioning pins allow you to put on a workpiece with a diameter of max. 150 mm. The total load capacity of the overlay is 300kg. Mainly used to operate lathes.

### RASTER\*



Raster overlay used for “cube” workpieces. Thanks to the changeable positioning pins, cubes of different sizes can be used. Mainly used to operate milling machines.

### EUROPALLET



Euro-pallet overlay used for atypical workpieces in terms of shape or size. Allows quick changeovers to swap an entire pallet. Used to operate lathes and milling machines.

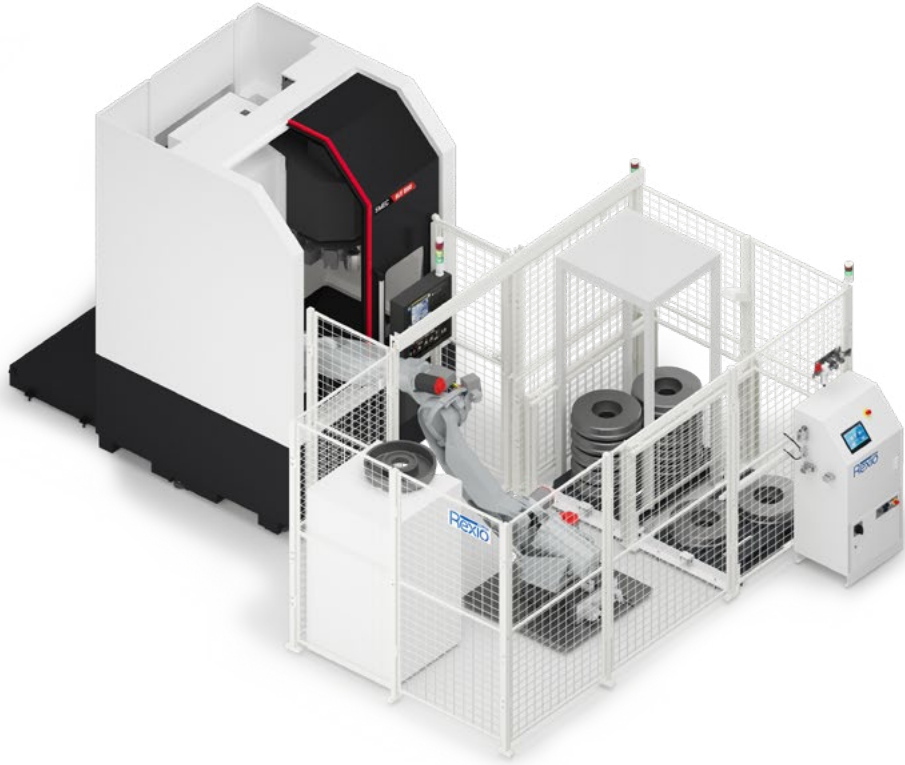
\*The RASTER solution is not offered in the following countries: Austria, Belgium, Switzerland, Liechtenstein, Germany, France, the United Kingdom, Norway, the Netherlands, Sweden.

## KEY FEATURES & BENEFITS

- increased productivity compared to manual loading
- fewer machining errors due to incorrect clamping
- compatible with milling and turning machines
- high productivity and efficiency by adapting several machines to a single system and operating several systems by one operator
- communication between the robot, machines and clamping system via I/O signals
- workpiece blow-off station in standard equipment
- no need for anchoring
- a mobile system with quick deployment
- exceptionally quick return on investment due to very accessible pricing







# REXIO® PALLET

VERSATILE ROBOTIC PALLET CELL FOR CNC MACHINES

REXIO® PALLET is the perfect choice for applications which require the elimination of manual workpiece loading into the cell. 800 × 1200 mm pallets allow workpieces to be loaded comfortably using a forklift. The robot puts the workpieces back on the pallet with optional layer separators eliminating the need for manual handling. An advanced quick pallet exchange system reduces exchange time to a minimum. REXIO® PALLET can serve up to three CNC machines at a time.

## GENERAL SPECIFICATIONS

Compatible robots	Kawasaki, Fanuc
Payload capacity	10 – 150 kg
Range	1.4 – 3 m
No. of pallets	2
Safety	fencing
Programming	HMI control panel







## KEY FEATURES & BENEFITS

- can serve up to 3 CNC machines at a time
- compatible with different robots: Fanuc, Kawasaki
- easy programming with intuitive HMI touch panel
- easy pallet retooling
- possibility of automated and/or manual handling of each machine
- robot and visual system program templates
- compact design
- compatible with small and large workpieces
- cat. 4 security system
- quick and safe pallet exchange

## STANDARD EQUIPMENT

- two pallets
- pallet docking system
- robot with dedicated range and payload capacity
- HMI control panel
- pneumatic gripper and blow-off connection
- fencing
- main controller
- EC declaration of incorporation, operation and maintenance manual
- remote deployment support

## OPTIONAL EQUIPMENT

- custom robot grippers
- workpiece blow-off station
- dipping station
- workpiece deburring station with flexibility adjustment
- workpiece re-grip station
- on-demand part inspection station
- 3-colour signal light column

## APPLICATION

- for small, medium and large production runs
- for large and complex workpieces
- replaces the operator in difficult machine loading situations
- no need to transfer the workpiece from the pallet to the loading system
- for lathes and milling machines

# REXIO® FEED

## AUTOMATED CONVEYOR SYSTEM FOR CNC MACHINES

REXIO® FEED was designed for the automated loading of CNC machines with complex-shape workpieces of any size. Long conveyors used as a buffer enable automated loading of workpieces for several hours without need for supervision. Thanks to its overall dimensions this system can handle large and complex-shape workpieces and a camera installed over the conveyor allows for them to be picked up by the robot without complicated positioning systems. REXIO® FEED serves up to three machines simultaneously and can be equipped with an optional workpiece blow-off, dipping or deburring station.



## GENERAL SPECIFICATIONS

Compatible robots	<b>Kawasaki, Fanuc</b>	Max. load	<b>300–600 kg</b>
Payload capacity	<b>10 – 150 kg</b>	Safety	<b>scanner/fencing</b>
Range	<b>1.4 – 3 m</b>	Control unit dimensions (H/W/D)	<b>2.3/0.7/0.8 m</b>
Conveyor width	<b>400, 600, 800 mm</b>	Programming	<b>HMI control panel</b>
Conveyor length (top/bottom)*	<b>3/4, 4/5, 5/6 m</b>		
Conveyor height (top/bottom)	<b>900/600 mm</b>		

*\*custom lengths on request*

## APPLICATION

- for small, medium and large production runs
- for simple as well as complex workpieces
- for frequent changeovers
- for lathes and milling machines
- up to a maximum of 3 machines

## STANDARD EQUIPMENT

- two conveyors to specification
- robot with dedicated range and payload capacity
- visual system with stand
- HMI control panel
- PC with display for visual system programming
- pneumatic gripper and blow-off connection
- safety scanner
- main controller
- EC declaration of incorporation, operation and maintenance manual
- remote deployment support

## OPTIONAL EQUIPMENT

- custom robot grippers
- workpiece blow-off station
- dipping station
- workpiece deburring station with flexibility adjustment
- workpiece re-grip station
- on-demand part inspection station
- 3-colour signal light column

## KEY FEATURES & BENEFITS



- can serve up to 3 CNC machines at a time
- fewer machining errors due to incorrect clamping
- compatible with different robots: Fanuc, Kawasaki
- complete visual system
- easy visual system programming with a PC and display
- robot and visual system program templates
- compact design
- easy access to machine through safety scanner
- high rigidity



# SYSTEM REXIO DOOR

AUTOMATIC OPENING AND CLOSING  
OF CNC MACHINE DOORS

System REXIO® DOOR System is designed for automatic opening and closing of CNC machine doors. Thanks to the use of appropriate controls, Rexio DOOR is fully safe and can be used to work with both humans and robots without the need for additional safeguards.

## APPLICATION

- work with an operator
- work with a robot
- single and double doors



Pitch	1000 mm ; 1500 mm ; 2000 mm
Maximum machine door weight	150 kg
Door opening direction	left, right
Suitable for double doors	yes



## ADVANTAGES

- easy integration with machines
- fast and quiet operation
- adjustable speed
- force adjustment and control



# TURN-KEY SOLUTION

AUTOMATION TAILORED TO YOUR NEEDS

To satisfy our Clients demands, we offer comprehensive turn-key solutions including manufacturing cell design for a specific workpiece, production, implementation, training and post-sales services. REXIO® does not exclude nor require any other automation solutions. However, combining REXIO® with other solutions offered by Metal Team, e.g. the clamping system, provides extra benefits.

INDIVIDUAL PROJECT



REALIZATION



IMPLEMENTATION



TRAINING



POST SALE SUPPORT





# DESIGN, INSTALLATION, SERVICE

FULL IMPLEMENTATION, TRAINING AND AFTER-SALES SUPPORT

- Workpiece-specific socket installation and optimisation of its operation, including advice on programming
- Retrofitting with additional elements and functions in response to needs arising during use
- Periodic technical inspections
- Warranty and post-warranty repairs
- Full range of spare parts
- Maintenance records - full repair history



## OUR SERVICE TECHNICIANS ARE AVAILABLE THROUGHOUT POLAND

We take care of the availability of individual professionals, easy access to information and technical advice for our partners. Rapid troubleshooting throughout the country is provided by the REXIO mobile service team.

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