



## INSTALLATION AND OPERATING INSTRUCTIONS

Tool changer, electromagnetic

WMR2000

DDOC02111

THE KNOW-HOW FACTORY

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## 1 Supporting documents

### NOTICE



Read through the installation and operating instructions before installing or working with the product.

The installation and operating instructions contain important notes for your personal safety. They must be read and understood by all persons who work with or handle the product during any phase of the product lifetime.



The documents listed below are available for download on our website [www.zimmer-group.com](http://www.zimmer-group.com).

- Installation and operating instructions
  - Catalogs, drawings, CAD data, performance data
  - Information on accessories
  - Technical data sheets
  - General Terms and Conditions, including warranty information.
- ⇒ Only those documents currently available on the website are valid.

In these installation and operating instructions, "product" refers to the product designation on the title page!

### 1.1 Notices and graphics in the installation and operating instructions

#### DANGER



This notice warns of an imminent danger to the life and health of people. Ignoring these notices can lead to serious injury or even death.

- ▶ You absolutely must comply with the described measures for avoiding these dangers!
- ⇒ The warning symbols are assigned according to the type of danger.

#### WARNING



This notice warns of a situation that is potentially hazardous to personal health. Ignoring these notices can cause serious injury or damage to health.

- ▶ You absolutely must comply with the described measures for avoiding these dangers!
- ⇒ The warning symbols are assigned according to the type of danger.

#### CAUTION



This notice warns of a situation that is potentially hazardous to persons. Ignoring these notices can cause minor, reversible injuries.

- ▶ You absolutely must comply with the described measures for avoiding these dangers!
- ⇒ The warning symbols are assigned according to the type of danger.

#### NOTICE



This notice warns of possible material and environmental damage. Ignoring these notices can result in damage to the product or the environment.

- ▶ You absolutely must comply with the described measures for avoiding these dangers!
- ⇒ The warning symbols are assigned according to the type of danger.

#### INFORMATION



This category contains useful tips for handling the product efficiently. Failure to observe these tips will not result in damage to the product. This information does not include any information relevant to health or workplace safety.

## 2 Safety notices

### WARNING



#### Health hazard due to magnetic field

The product contains a permanent magnet and can affect implants such as cardiac pacemakers.

- ▶ If you wear any electronic implants, do not enter the effective range of the magnetic field.



### CAUTION



#### Risk of injury and material damage in case of non-compliance

The product is state-of-the-art.

The following are examples of situations in which the product may cause a hazard:

- The product is not properly installed, used or maintained.
- The product is not used for its designated purpose.
- The locally applicable regulations, laws, directives or guidelines are not observed.
- ▶ The product may only be used in accordance with these installation and operating instructions and the product's technical data. Any changes or additions to the intended use of the product, as well as modifications to the product, such as those in the following examples, require the written permission of the manufacturer:
  - Use of the product under extreme conditions, such as aggressive fluids or abrasive dusts
  - Additional drilled holes or threads
- ⇒ Zimmer GmbH shall accept no liability for any damage caused by improper use. The operator bears sole responsibility.
- ▶ Make sure that the power supply is disconnected before you mount, adjust, modify, maintain or repair the product.
- ▶ Whenever work is carried out on the product, make sure that the product cannot be actuated by mistake.
- ▶ Perform maintenance tasks, renovation work or attachment work outside of the machine's danger zone when possible.
- ▶ Do not reach into the operational range of the product.
- ▶ Observe the specified maintenance intervals and specifications regarding the quality of the operating material.
- ▶ When using the product under extreme conditions, adjust the maintenance interval according to the degree of contamination.
- ▶ Check the completeness and tightening torques of all mounting screws.

### 3 Proper use

#### NOTICE



#### Material damage and malfunction in case of non-compliance

The product is only to be used in its original state with its original accessories, with no unauthorized changes and within the stipulated parameter limits and operating conditions.

Any other or secondary use is deemed improper.

- ▶ Operate the product only in compliance with the associated installation and operating instructions.
  - ▶ Operate the product only when it is in a technical condition that corresponds to the guaranteed parameters and operating conditions.
- ⇒ Zimmer GmbH shall accept no liability for any damage caused by improper use. The operator bears sole responsibility.

- The tool changer may only be operated in combination with a storage station.
- The product is designed exclusively for electric operation using a 24 V DC power supply.
- The product is intended for industrial use.
- The product is designated for use in closed facilities.

### 4 Personnel qualification

#### WARNING



#### Inadequate qualification can cause injury and material damage

If inadequately qualified personnel perform work on the product, this can cause serious injuries and significant material damage.

- ▶ All work on the product must be performed by qualified personnel.
- ▶ Before working with the product, read the document in its entirety and make sure that you have understood everything.
- ▶ Observe country-specific accident prevention regulations and the general safety notices.

The following qualifications are a prerequisite for performing various work on the product.

#### 4.1 Electricians

Electricians are able to perform work on electrical systems, can recognize and avoid possible dangers and know the relevant standards and provisions due to their technical training, knowledge and experience.

#### 4.2 Specialists

Specialists are able to perform the assigned work, can recognize and avoid possible dangers and know the relevant standards and provisions due to their technical training, knowledge and experience.

#### 4.3 Instructed personnel

Instructed personnel have been trained by the operating company on the tasks and possible dangers of improper behavior.

#### 4.4 Service personnel

Service personnel are able to perform the assigned work and can recognize and avoid possible dangers due to their technical training, knowledge and experience.

#### 4.5 Additional qualifications

Persons who work with the product must be familiar with the valid safety regulations and laws as well as the standards, guidelines and laws listed in this document.

Personnel who work with the product must have facility-issued authorization to commission, program, configure, operate, maintain and also decommission this product.

## 5 Product description

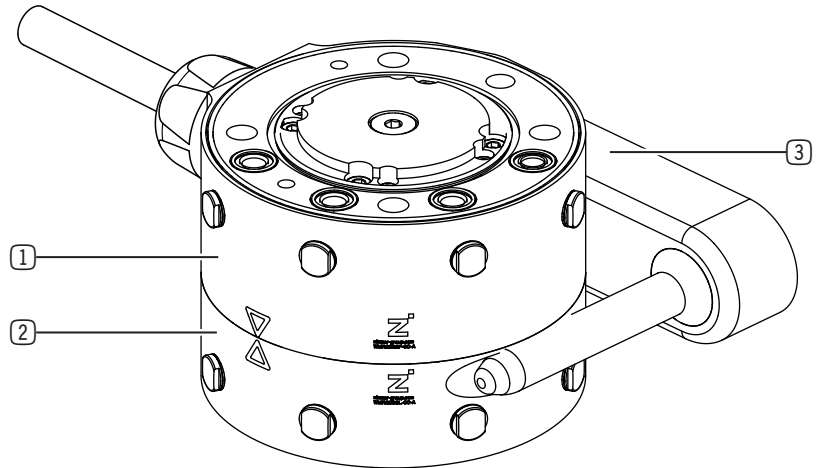
The product is an electromagnetically operated exchange system.

It consists of a stationary part and a loose part.

The stationary part can be coupled to different loose parts.

A storage station is available as an option.

Several storage stations can be used to hold differently equipped loose parts for operation with the same stationary part.



- ① Stationary part (WMR20xxF)
- ② Loose part (WMR20xxL)
- ③ Storage station

### 5.1 Type plate

A laser-engraved type plate can be found on the housings of the stationary part, loose part and storage station.

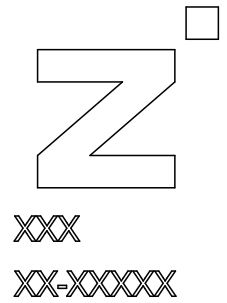
The article number and the confirmation number are shown on the type plate.

① Article number

② Confirmation number

① \_\_\_\_\_

② \_\_\_\_\_



### 5.2 Product variants and compatibility

#### INFORMATION



Energy elements can be installed on the product to supply power to the tools.

► Please contact Customer Service if you have any questions.

## 6 Functional description

The stationary part is installed on a robot. It is used to hold a loose part.

The stationary part and loose part are locked via a permanent electromagnet.

The stationary part and loose part are connected via a magnetic field without an energy supply. This ensures a friction-locked connection even in the event of a loss of power. When energized, the magnetic field is canceled and the connection is severed.

### 6.1 Functional safety

For the overall safety of the function, both components (stationary part and loose part) must be taken into account.

The basic and proven safety principles from EN ISO 13849-1 can be complied with only if original parts from Zimmer GmbH are used.

The safety function that ensures secure locking between the stationary part and loose part of the product is implemented via a permanent electromagnet.

## 7 Technical data

### INFORMATION



▶ You can find the information in the technical data sheet on our website.

This data varies within the series, depending on the specific design.

▶ Please contact Customer Service if you have any questions.

## 8 Accessories/scope of delivery

### INFORMATION



If any accessories not sold or authorized by Zimmer GmbH are used, the function of the product cannot be guaranteed. Zimmer GmbH accessories are specifically tailored to the individual products.

▶ For optional accessories and those included in the scope of delivery, refer to our website.

## 9 Transportation/storage/preservation

- ▶ Transport and storage of the product must be done only with the original packaging.
- ▶ If the product has already been installed on the superordinate machine unit, care must be taken during transport to ensure that no unexpected movements can occur.
  - ▶ Before commissioning the product and after transport, check all power and communication connections as well as all mechanical connections.
- ▶ If the product is stored for an extended period, the following points are to be observed:
  - ▶ Keep the storage location as dust-free and dry as possible.
  - ▶ Avoid temperature fluctuations.
  - ▶ Avoid wind/drafts/water condensation formation.
  - ▶ Pack the product and do not expose it to direct sunlight during storage.
- ▶ Clean all components. There must be no soiling left on the components.
- ▶ Visually inspect all components.
- ▶ Remove all foreign substances.
- ▶ Properly remove potential corrosion spots.
- ▶ Close off unused connections using pressure-resistant closures.



## 10 Installation

### WARNING



#### Risk of injury due to uncontrolled movements

Risk of injury in case of unexpected movement of the machine or system into which the product is to be installed.

- ▶ Switch off the energy supply of the machine before any work.
- ▶ Secure the power supply against being switched on unintentionally.
- ▶ Check the machine for any residual energy that may be present.

### CAUTION



#### Risk of injury due to uncontrolled movements

Risk of injury in the event of uncontrolled movement of the product when the power supply is connected.

- ▶ Switch off the power supply to the machine before carrying out any work.
- ▶ Secure the power supply against being switched on unintentionally.
- ▶ Check the machine for any residual energy that may be present.

### INFORMATION



The tightening torques apply to screw connections in components made from the materials steel and stainless steel.

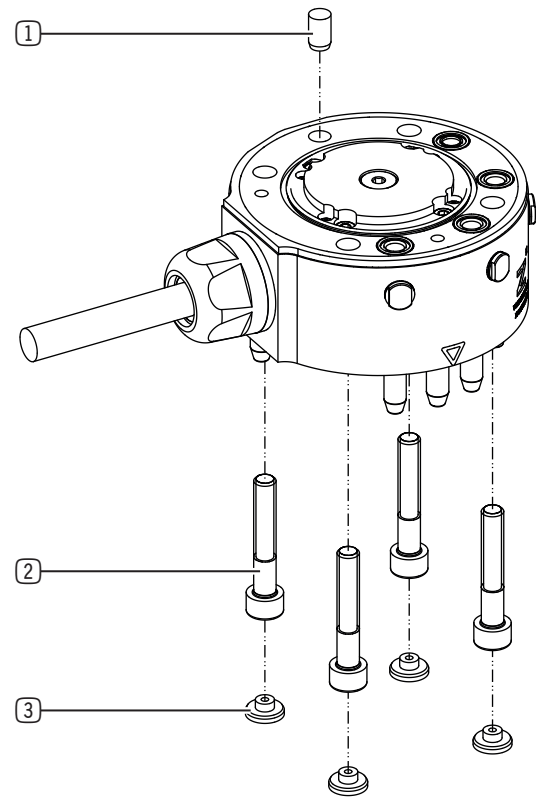
#### Assembly requirements

Permissible flatness tolerance [mm]	Mounting surface length [mm] ≤ 100	< 0.02
	Mounting surface length [mm] > 100	< 0.05
Strength class of the mounting screws	A4-70	
Tightening torque [Nm]	1.6	

- ▶ Install the product on an appropriate mounting surface in accordance with the flatness specifications.
- ▶ Make sure that the mounting piece is sufficiently rigid.
- ▶ Ensure the cleanliness of the connection surfaces.

### 10.1 Installing the stationary part on the robot

- ▶ Insert the straight pin into the designated fit on the stationary part.
- ▶ Position the stationary part on the robot.
- ▶ Loosely attach the mounting screws.
- ▶ Tighten the mounting screws without distortion.
- ▶ Cover the screw heads using the supplied plugs.



- ① Straight pins
- ② Mounting screw
- ③ Plug

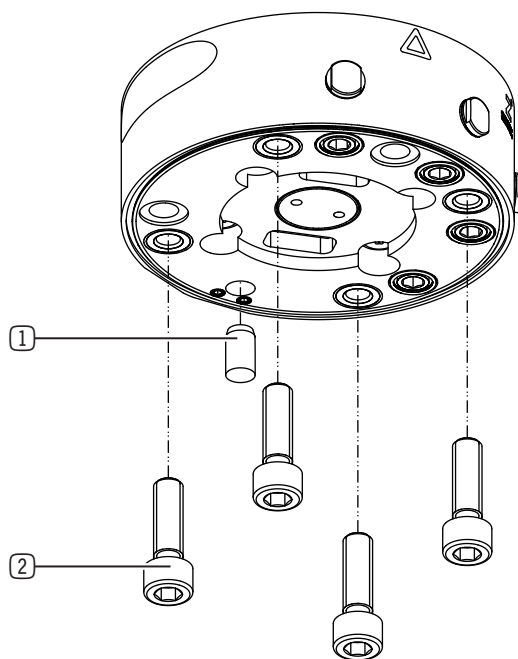
#### INFORMATION



- ▶ Please note that the plugs cannot be removed without being destroyed when uninstalling the stationary part.
- ▶ For ordering information regarding available spare parts, refer to the accessories list on our website.

### 10.2 Installing the tool to the loose part

- ▶ Insert the straight pin into the designated fit on the loose part.
- ▶ Position the loose part on the tool.
- ▶ Loosely attach the mounting screws.
- ▶ Tighten the mounting screws without distortion.



- ① Straight pins
- ② Mounting screw

### 10.2.1 Encoding loose parts

#### INFORMATION



The encoding makes it possible to differentiate between differently equipped loose parts by means of consecutive numbering.

This enables the following functions:

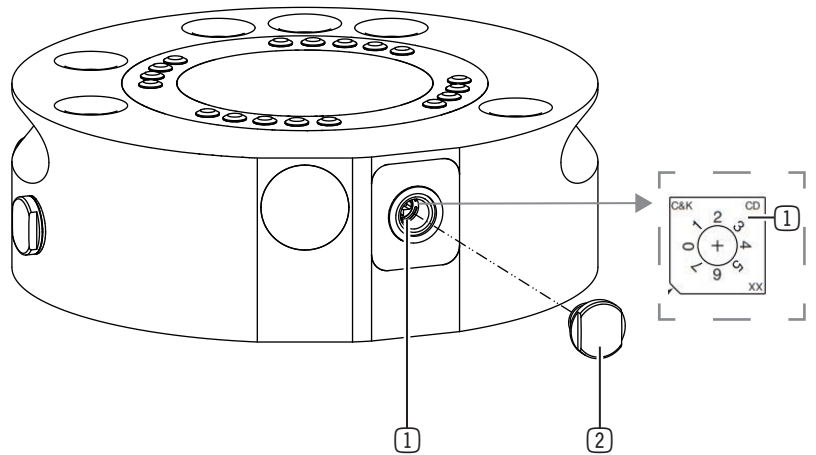
- Loose parts can be assigned to storage stations.
- The robot can identify the loose part currently being used.

► Remove the seal.

A rotary switch is located behind it.

Up to eight loose parts can be encoded via positions 0–7.

► Turn the switch to the desired position.



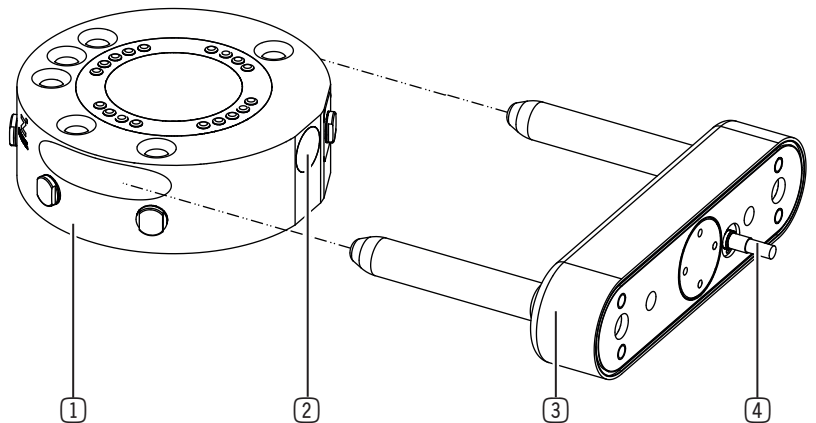
- ① Rotary switch
- ② Locking screw

### 10.3 Installing the storage station

The storage station is a device in which a completely equipped loose part can be held ready in a defined position.

The magnets of the loose part and storage station are coupled when the loose part is placed in the storage station. The sensor detects the loose part and the stationary part can be decoupled. The permanent electromagnet in the stationary part must be energized in order to place the loose part in the storage station.

- Install the storage station on the mounting piece.
- Position the loose part in the storage station.
  - Make sure that the magnet is aligned with the storage station.



- ① Loose part
- ② Permanent electromagnet
- ③ Storage station
- ④ Sensor

## 10.4 Installing the energy supply

### WARNING



#### Risk of injury due to electrical voltage

Electric shocks can cause serious injuries as a result of touching parts carrying voltage.

- ▶ Switch off the energy supply of the machine before any work.
- ▶ Secure the power supply against being switched on unintentionally.

### CAUTION



#### Risk of injury from getting caught in the connecting cable

While the robot is moving, hair or limbs can be caught in the connecting cable.

- ▶ Route the connecting cable as close as possible to the robot arm.
- ▶ Avoid the danger zone.

### NOTICE

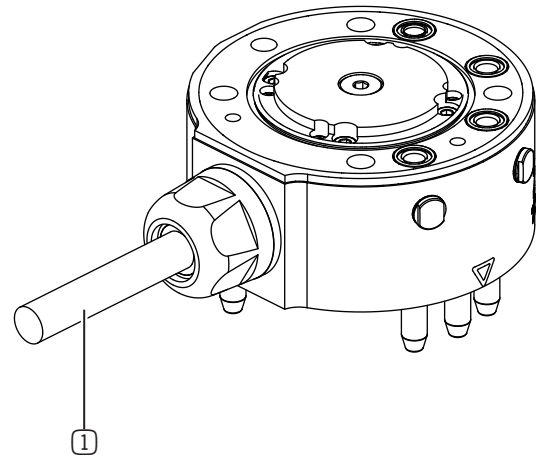


#### Non-compliance may result in material damage.

The cable mounted on the product can be subjected to a torsional angle of  $+50^\circ$ .

- ▶ Do not route the cable so that it is strained.
  - ▶ You must meet the minimum bending radius of 10x the outer diameter.
  - ▶ Secure free-hanging cables to prevent excessive motion loads or pinching.
  - ▶ The contacts of the energy supply must be dry, clean and undamaged at all times.
- ⇒ Damage to the contacts can result in malfunction of the product.

- ▶ Connect the product to the robot control system.

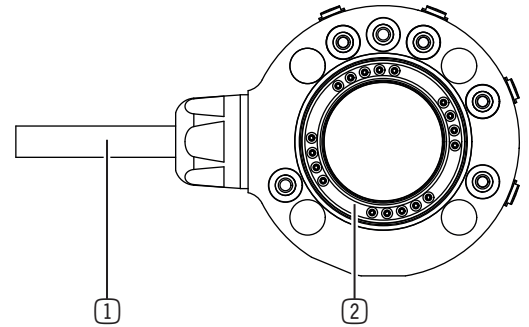


- ① Connecting line

### 10.4.1 Pin assignment for products with IO-Link

The connection cable is 5 m long and has an open cable end.

► Please note that the connection to the robot control system is customer-specific.



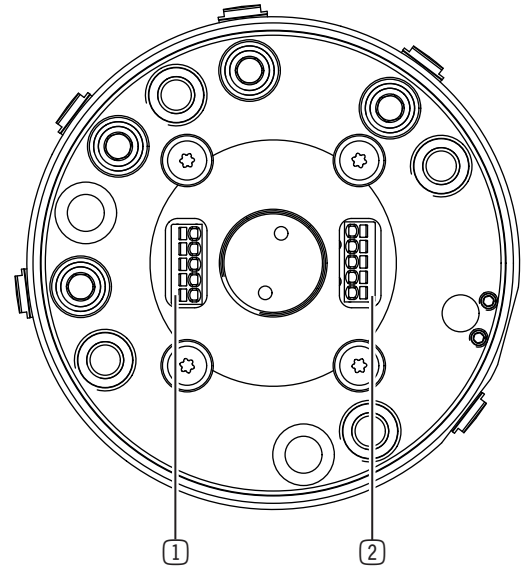
- ① Connecting line
- ② Energy element

#### 10.4.1.1 PIN assignment of the stationary part

Color	Function	Explanation	Assignment on the loose part
White/gray	PWR sensor 1	IO-Link 1 Sensor voltage 24 V DC	X10 - Pin 1
Brown	PWR actuator 1	IO-Link 1 Actuator voltage 24 V DC	X10 - Pin 2
White	GND sensor 1	IO-Link 1 Sensor voltage 0 V DC	X10 - Pin 3
Gray/pink	GND actuator 1	IO-Link 1 Actuator voltage 0 V DC	X10 - Pin 4
Purple	C/Q 1	IO-Link 1 Communication voltage 0 V DC	X10 - Pin 5
Green	PWR sensor 2	IO-Link 2 Sensor voltage 24 V DC	X20 - Pin 1
Yellow	PWR actuator 2	IO-Link 2 Actuator voltage 24 V DC	X20 - Pin 2
Gray	GND sensor 2	IO-Link 2 Sensor voltage 0 V DC	X20 - Pin 3
Pink	GND actuator 2	IO-Link 2 Actuator voltage 0 V DC	X20 - Pin 4
Blue	C/Q 2	IO-Link 2 Communication voltage 0 V DC	X20 - Pin 5
White-green	Encoding C	Loose part encoding	Internal
Red/blue	Encoding 1	Loose part encoding	Internal
White-yellow	Encoding 2	Loose part encoding	Internal
Yellow/brown	Encoding 4	Loose part encoding	Internal
Black	Permanent electromagnet (-)	Stationary and loose part coupled	-
Red	Permanent electromagnet (+)	Stationary and loose part decoupled	-
Brown-green	FE	Functional ground	-

### 10.4.2 PIN assignment of the loose part

Control is via SCM or a commercially available IO-Link master with Port Class B.



- ① X10 socket
- ② X20 socket

IO-Link communication 1			
Pin	Function	Explanation	X10 socket
1	C/Q 1	IO-Link 1 Communication voltage 0 V DC	
2	GND actuator 1	IO-Link 1 Actuator voltage 0 V DC	
3	GND sensor 1	IO-Link 1 Sensor voltage 0 V DC	
4	PWR actuator 1	IO-Link 1 Actuator voltage 24 V DC	
5	PWR sensor 1	IO-Link 1 Sensor voltage 24 V DC	
IO-Link communication 2			
Pin	Function	Explanation	X20 socket
1	C/Q 2	IO-Link 2 Communication voltage 0 V DC	
2	GND actuator 2	IO-Link 2 Actuator voltage 0 V DC	
3	GND sensor 2	IO-Link 2 Sensor voltage 0 V DC	
4	PWR actuator 2	IO-Link 2 Actuator voltage 24 V DC	
5	PWR sensor 2	IO-Link 2 Sensor voltage 24 V DC	

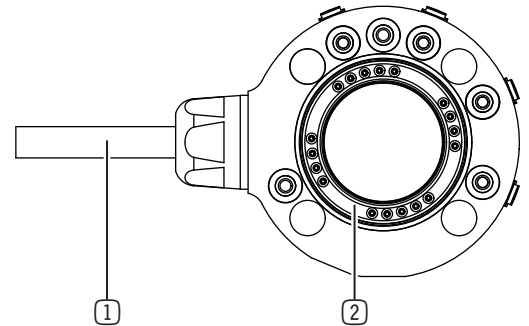
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### 10.4.3 Pin assignment for products with a digital control system

#### 10.4.3.1 PIN assignment of the stationary part

The connection cable is 5 m long and has an open cable end.

► Please note that the connection to the robot control system is customer-specific.

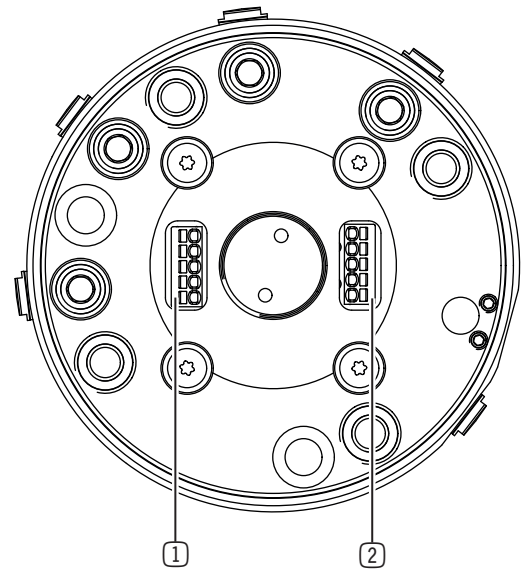


- ① Connecting line
- ② Energy element

Color	Function	Explanation	Assignment on the loose part
White/gray	Freely assignable	Signal X10_1	X10 - Pin 1
Brown	Freely assignable	Signal X10_2	X10 - Pin 2
White	Freely assignable	Signal X10_3	X10 - Pin 3
Gray/pink	Freely assignable	Signal X10_4	X10 - Pin 4
Purple	Freely assignable	Signal X10_5	X10 - Pin 5
Green	Freely assignable	Signal X20_1	X20 - Pin 1
Yellow	Freely assignable	Signal X20_2	X20 - Pin 2
Gray	Freely assignable	Signal X20_3	X20 - Pin 3
Pink	Freely assignable	Signal X20_4	X20 - Pin 4
Blue	Freely assignable	Signal X20_5	X20 - Pin 5
White-green	Encoding C	Loose part encoding	Internal
Red/blue	Encoding 1	Loose part encoding	Internal
White-yellow	Encoding 2	Loose part encoding	Internal
Yellow/brown	Encoding 4	Loose part encoding	Internal
Black	Permanent electromagnet (-)	Stationary and loose part coupled	-
Red	Permanent electromagnet (+)	Stationary and loose part decoupled	-
Brown-green	FE	Functional ground	-



10.4.3.2 PIN assignment of the loose part



- ① X10 socket
- ② X20 socket

Communication 1			
Pin	Function	Explanation	X10 socket
1	Freely assignable	Signal X10_1	
2	Freely assignable	Signal X10_2	
3	Freely assignable	Signal X10_3	
4	Freely assignable	Signal X10_4	
5	Freely assignable	Signal X10_5	

Communication 2			
Pin	Function	Explanation	X20 socket
1	Freely assignable	Signal X20_1	
2	Freely assignable	Signal X20_2	
3	Freely assignable	Signal X20_3	
4	Freely assignable	Signal X20_4	
5	Freely assignable	Signal X20_5	

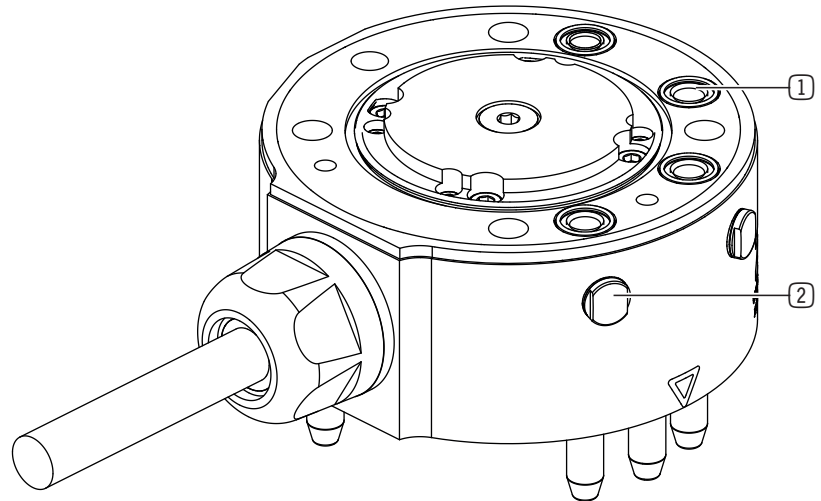
#### 10.4.4 Media transfer

##### INFORMATION



- ▶ Use an adapter plate if necessary.
- ▶ Close off unused connections using pressure-resistant closures.
- ▶ The authorized connections that are available can be found in the accessories list on our website. The necessary ordering information can also be found there.

- ▶ Please note that the connections to the media transfer must be adapted on site.
- ▶ Remove the locking screw to reach the radial connections.



- ① Axially connection
- ② Radial connection

#### 10.5 Installing accessories

##### NOTICE



**Non-compliance may result in material damage.**

- ▶ Before installing an accessory, make sure it is suitable for use with the selected variant.
- ▶ You can find information on our website.
- ▶ Please contact Customer Service if you have any questions.

## 11 Operation

### CAUTION

**Reduction of the holding force can cause injury and material damage**

Reduced holding force can cause injuries or material damage because the components can no longer be securely gripped and transported.

- ▶ Observe the permitted total load.
- ▶ Do not stand or walk underneath suspended loads.

### CAUTION

**Risk of injury in case of non-compliance**

When voltage is applied, the permanent electromagnet demagnetizes and the loose part can fall down.

- ▶ Make sure that the voltage supply remains switched off after the intake of the loose part.

### CAUTION

**Risk of injury and material damage in case of non-compliance**

The product can overheat when the current feed duration is too long.

The product has a fuse to protect it from destruction.



- ▶ Observe the recommended cooling temperature in accordance with EN ISO 13732-1.
- ▶ Wear suitable protective equipment.

### NOTICE

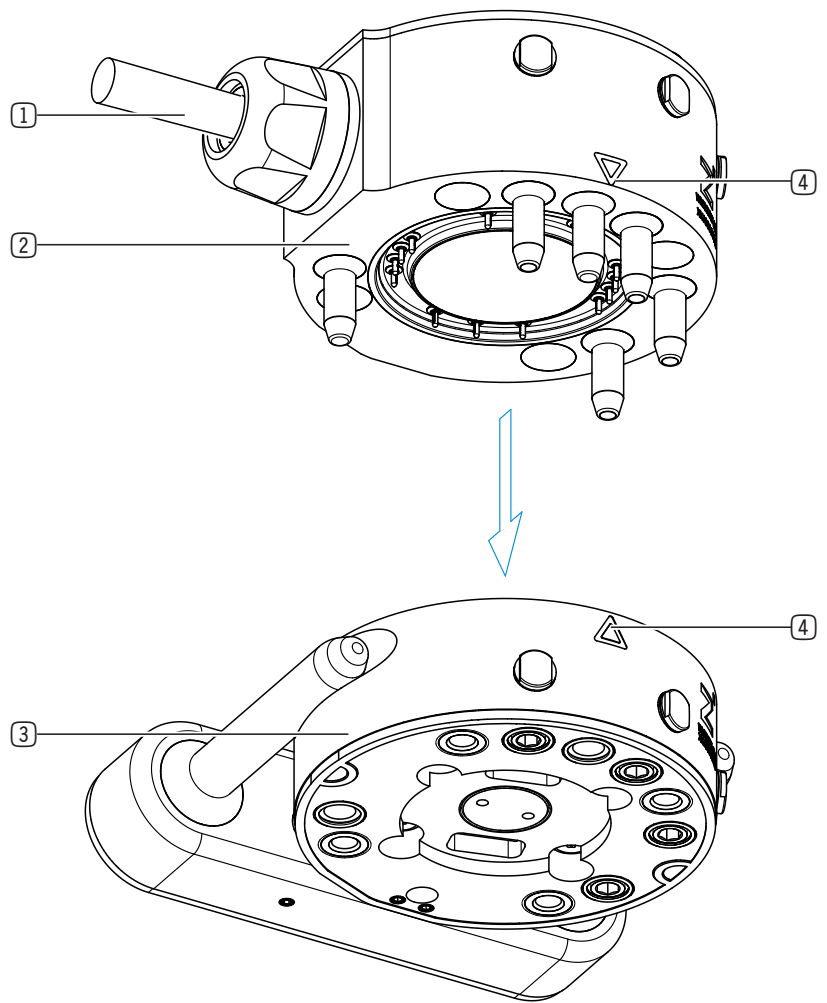
**Material damage and malfunction in case of non-compliance**

The permanent electromagnet can overheat when the current feed duration is too long.

- ▶ Do not energize the product longer than 30 s.
- ▶ Ensure a pause of  $\geq 270$  s between current feed intervals.

### 11.1 Coupling loose parts

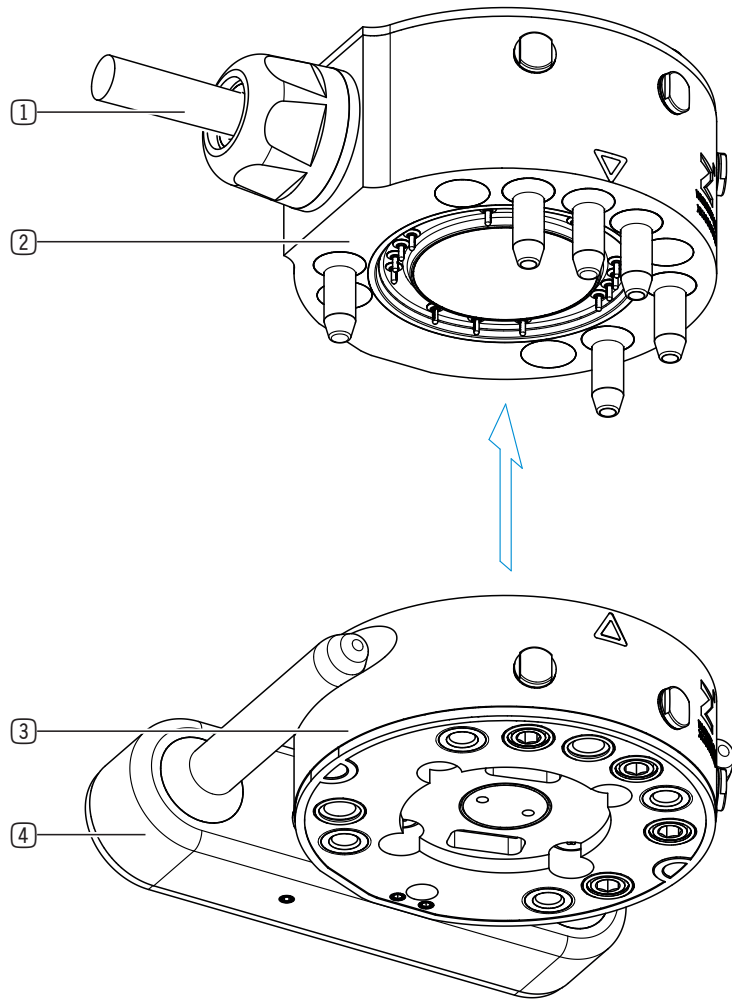
- ▶ Position the stationary part above the loose part.
  - ▶ Note the markings on the stationary part and loose part.
  - ▶ Lower the stationary part.
  - ▶ Switch the product off.
- ⇒ The stationary part and loose part couple automatically via the permanent electro-magnet.



- ① Power supply
- ② Stationary part
- ③ Loose part
- ④ Marking

### 11.2 Decoupling loose parts

- ▶ Place the loose part in the storage station.
- ▶ De-aerate the product completely.
- ▶ Switch on the voltage supply.
- ⇒ The magnetic field is canceled.
- ▶ Separate the stationary part from the loose part.



- ① Power supply
- ② Stationary part
- ③ Loose part
- ④ Storage station

## 12 Maintenance

### NOTICE

**Material damage resulting from blowing out with compressed air**

Blowing out the product with compressed air can cause malfunctions.

- ▶ Never purge the product with compressed air.

### NOTICE

**Material damage and malfunction in case of non-compliance**

Cleaning agents can get into the electrical contacts due to improper cleaning.

- ▶ Clean the product with water or hydrogen peroxide with a max. concentration of 30%.
- ▶ Never clean the product with pressure.

Maintenance-free operation of the product is guaranteed for up to **100,000 cycles**.

### NOTICE

**Malfunction in case of non-compliance**

- ▶ Replace the energy elements after 100,000 cycles.
- ▶ For more information, refer to the “Replacing energy elements” section.

▶ Note that the product could become damaged under the following circumstances:

- Dirty environment
  - Improper use and use that does not comply with the performance data
  - Permissible temperature range not observed
- ▶ Even though the product is maintenance-free as mentioned above, perform a regular visual inspection to check for any damage or contamination.
- ▶ Have maintenance work that requires disassembly of the product performed by customer service only.
- ⇒ Dismantling and reassembling the product without authorization may result in complications, as special installation equipment is required in some cases. Zimmer GmbH accepts no liability for any resulting malfunctions or damage.

## 12.1 Replacing energy elements

### NOTICE



**Non-compliance may result in material damage.**

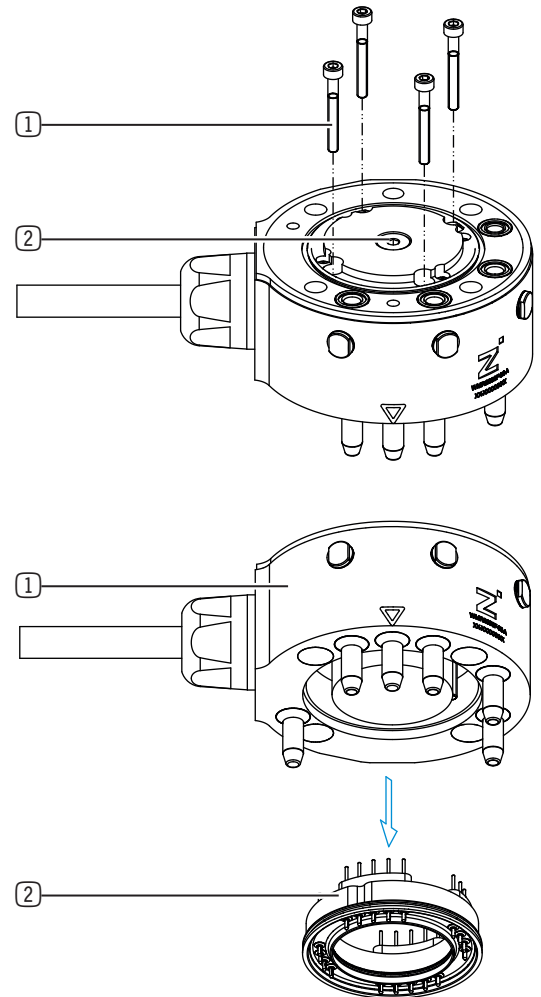
Pin wear can cause corrosion.

► Replace the energy elements if they have advanced wear.

### 12.1.1 Replacing the energy element in the stationary part

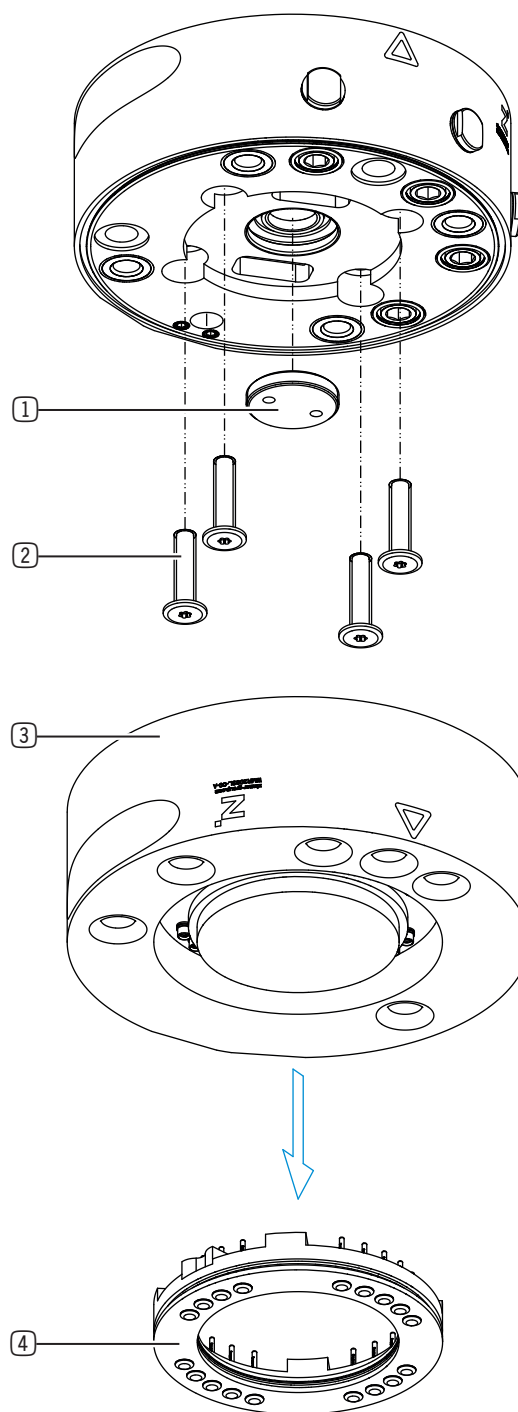
- Remove the mounting screws.
- Use an Allen key to release the locking of the energy element.
- Press the energy element out of the stationary part.
- Insert a new energy element.
- Lock the energy element.
- Install the energy element with the mounting screws.

- ① Mounting screw
- ② Locking
- ③ Stationary part
- ④ Energy element



### 12.1.2 Replacing the energy element in the loose part

- ▶ Remove the mounting screws.
- ▶ Remove the cover using a suitable tool.
- ▶ Use an Allen key to release the locking of the energy element.
- ▶ Press the energy element out of the loose part.
- ▶ Insert a new energy element into the product.
- ▶ Lock the energy element.
- ▶ Close the opening with the cover.
- ▶ Install the energy element with the mounting screws.



- ① Cover
- ② Mounting screw
- ③ Loose part
- ④ Energy element

### 13 Decommissioning/disposal

#### INFORMATION



When the product reaches the end of its operational phase, it can be completely disassembled and disposed of.

- ▶ Disconnect the product completely from the power supply.
- ▶ Dispose of the components properly according to the material groups.
- ▶ Comply with the locally applicable environmental and disposal regulations.



### 14 RoHS declaration

in terms of the EU Regulation 2011/65/EU

**Name and address of the manufacturer:**

**Zimmer GmbH**


📍 Im Salmenkopf  
77866 Rheinau, Germany  
☎ +49 7844 9138 0  
✉ [info@zimmer-group.com](mailto:info@zimmer-group.com)  
🌐 [www.zimmer-group.com](http://www.zimmer-group.com)

We hereby declare that the incomplete machine described below

**Product designation:** Tool changer, electromagnetic

**Type designation:** WMR2000

conforms to the requirements of the directive in its design and the version we put on the market.

Michael Hoch	Rheinau, Germany, 2024-11-08	
Authorized representative for the compilation of relevant technical documents	(Place and date of issuance)	Martin Zimmer (Legally binding signature) Managing Partner

### 15 REACH declaration

In terms of the EC Regulation 1907/2006


**Name and address of the manufacturer:**

**Zimmer GmbH**

📍 Im Salmenkopf  
77866 Rheinau, Germany  
☎ +49 7844 9138 0  
✉ [info@zimmer-group.com](mailto:info@zimmer-group.com)  
🌐 [www.zimmer-group.com](http://www.zimmer-group.com)

REACH stands for **R**egistration, **E**valuation, **A**uthorisation and **R**estriction of **C**hemicals.

A full declaration of REACH can be obtained from the manufacturer due to the duty to notify in accordance with Art. 33 of the REACH regulation (“Duty to communicate information on substances in articles”).

Michael Hoch	Rheinau, Germany, 2024-11-08	
Authorized representative for the compilation of relevant technical documents	(Place and date of issuance)	Martin Zimmer (Legally binding signature) Managing Partner

## 16 Declaration of Incorporation

In terms of the EU Machinery Directive 2006/42/EC (Annex II 1 B)

### Name and address of the manufacturer:

#### Zimmer GmbH

 Im Salmenkopf  
 77866 Rheinau, Germany  
 +49 7844 9138 0  
 [info@zimmer-group.com](mailto:info@zimmer-group.com)  
 [www.zimmer-group.com](http://www.zimmer-group.com)

We hereby declare that the incomplete machine described below

**Product designation:** Pneumatic tool changer

**Type designation:** WMR2000

conforms to the requirements of the Machinery Directive, 2006/42/EC, Article 2g, Annex VII, b – Annex II, b, in its design and the version we put on the market.

Basic health and safety requirements:

No. 1.1.2, No. 1.1.3, No. 1.1.5, No. 1.3.2, No. 1.3.4, No. 1.3.7, No. 1.3.9, No. 1.5.1, No. 1.5.3, No. 1.5.4, No. 1.6.4, No. 1.7.1, No. 1.7.4

A full list of applied standards can be obtained from the manufacturer.

We also declare that the specific technical documents were produced in accordance with Annex VII Part B of this Directive. We undertake to provide the market supervisory bodies with electronic versions of special documents for the incomplete machine through our documentation department, should they have reason to request them.

**The incomplete machine may only be commissioned if it has been ascertained, if applicable, that the machine or system in which the incomplete machine is to be installed satisfies the requirements of Directive 2006/42/EC on Machinery and an EC Declaration of Conformity has been drawn up in accordance with Annex II 1 A.**

Kurt Ross

Authorized representative for the compilation of relevant technical documents

Rheinau, Germany, 2024-11-08

(Place and date of issuance)



Martin Zimmer  
(Legally binding signature)  
Managing Partner

## 17 Declaration of Conformity

As defined by the EC Directive 2014/30/EU on electromagnetic compatibility

### Name and address of the manufacturer:

#### Zimmer GmbH

 Im Salmenkopf  
 77866 Rheinau, Germany  
 +49 7844 9138 0  
 [info@zimmer-group.com](mailto:info@zimmer-group.com)  
 [www.zimmer-group.com](http://www.zimmer-group.com)

We hereby declare that the product described below

**Product designation:** Tool changer, electromagnetic

**Type designation:** WMR2000

conforms to the requirements of the Electromagnetic Compatibility Directive 2014/30/EU in its design and the version we put on the market.

The following harmonized standards have been used:

DIN EN ISO 12100	Safety of machinery - General principles for design - Risk assessment and risk reduction
DIN EN 61000-6-3	EMC Generic standard, Emission standard for residential, commercial and light-industrial
DIN EN 61000-6-2	EMC Generic standard, Emission standard for industrial environments
DIN EN 61000-6-4	EMC Generic standard, Immunity for industrial environments

A full list of applied standards can be obtained from the manufacturer.

Kurt Ross

Authorized representative for the compilation of relevant technical documents

Rheinau, Germany, 2024-11-08

(Place and date of issuance)



Martin Zimmer  
(Legally binding signature)  
Managing Partner