

Handling technology

Module for Universal Robots

THE KNOW-HOW FACTORY



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www.zimmer-group.com

THE KNOW-HOW FACTORY

ZIMMER GROUP COMMITTED TO OUR CUSTOMERS

WE HAVE SUCCEEDED FOR YEARS BY OFFERING OUR CUSTOMERS INNOVATIVE AND INDIVIDUALIZED SOLUTIONS. ZIMMER HAS GROWN CONTINUOUSLY AND TODAY WE HAVE REACHED A NEW MILESTONE: THE ESTABLISHMENT OF THE KNOW-HOW FACTORY. IS THERE A SECRET TO OUR SUCCESS?

Foundation. Excellent products and services have always been the foundation of our company's growth. Zimmer is a source of ingenious solutions and important technical innovations. This is why customers with high expectations for technology frequently find their way to us. When things get tricky, Zimmer Group is in its best form.

Style. We have an interdisciplinary approach to everything we do, resulting in refined process solutions in six technology fields. This applies not just to development but to production. Zimmer Group serves all industries and stands ready to resolve even the most unique and highly individualized problems. Worldwide.

Motivation. Customer orientation is perhaps the most important factor of our success. We are a service provider in the complete sense of the word. With Zimmer Group, our customers have a single, centralized contact for all of their needs. We approach each customer's situation with a high level of competence and a broad range of possible solutions.



HMI – HUMAN MACHINE INTERFACE EASY TO INTEGRATE – EASY TO USE

SIMPLE OPERATION

Operating Industrie 4.0 components from Zimmer Group is just as easy and flexible as installing them. What originally applied primarily for industrial control systems is now also available for robots.

In doing so, operation is integrated completely into the robot control system. As a result, the Zimmer Group components can now be configured manually using the robot control panel directly and integrated into the robot program sequence. An external PLC control system is not required to do this. The Universal Robots specialists oriented themselves toward the already familiar Zimmer HMI to create a uniform, intuitive user interface for the user.

The user can control the complete IO-Link gripper portfolio from the Zimmer Group using this tailor-made complete system and can use pneumatic, electrical, servo-electric as well as digital Zimmer Group components with innovative robots from Universal Robots.

BECAUSE SIMPLE IS SIMPLY BETTER

This integration makes it possible for the user to enable maximum levels of flexibility and straightforward adaptation, storage and restoring device parameters during the creation of new application-specific profiles.

Furthermore, the Zimmer HMI supports condition monitoring or predictive maintenance of the components. This makes it possible for any user to implement and commission Zimmer Group components within a few minutes. This simplifies the interaction of robots and handling components considerably.

CONFIGURATION

Graphic component selection

Easiest assignment of a Zimmer gripper to the robot

| 🔃 🧿 File | 13.20.04 CCCC 📀 |
|---|---|
| Program Installation | Move U/O Log |
| TCP Configuration | ZIMMER |
| UO Settup | 🕨 Gripz_MR 🧶 Gripper 2 🕘 Gripper 3 🔮 Gripper 4 |
| Salety Variables MODBUS Features Conveyor Tracking EtherNet/IP PROFINET | Balance Manual Manual Gripper Name Orp1_HEC01 Type HEC01 Type Turck TBEN-62-600, (MCOB) P address 0.0.0.5 |
| ZimmerGroup Default Program | ATC & Actual position: 207 Desposition: 101001 |

MANUAL OPERATION

Generating the gripper process parameters

such as gripping forces, gripper positions, gripping speed, etc.



AUTOMATIC MODE ROBOT

Use of function blocks

such as Open gripper / Close gripper, etc. for easy operation

| 🔲 a nie | | 13.33 | 28 CCCC 🕜 | |
|--|--------------|----------------------|-----------|---|
| Program Installation Move U/O Log | | | | 6 |
| pattern_1-gripper-0-1 | Command Gr | aphics Structure Var | ables | |
| Robot Program T Noter ON HRC ORP | Z_Grippe | er | | |
| = Z_WHE_PDU HRC-GRP = Z_WUNL HRC-GRP | ZIMM | | | |
| Schlefe Z, AtWorkPosition= False T FahreAchse | | | | 1 |
| Z. Base: HRC-GAP Schlefe Z. AtlasePostion+ False | | | | |
| FahreAchen | Gripper | Grg1 HRCII | ■ Update | |
| - Z_Homing HRC-GRP | Gripper Type | HRC-01 | Stops r | |
| = Z_WIRE_FDU_HRC-GRP = Z_Work_HRC-GRP | Command | 2 Motor dN | Block p | |
| Schlefe Z, AtWorkPosition+ False Z, Base, HRC-GNP | 0.000-000 | | | |
| Schlefe Z, AtBasePosition # False Z Write PDU HBC-GRP | | | | |
| - Z Reset Direction: HRC-GRP | | | | |
| Z_Base HRC-GRP Schlefe Z_AtBasePosition+ False | | | | |
| Z_Motor_OFF: HRC-ORP V_Fahrwiches | | | | |
| | | | | |
| | | | | |
| | | | | |
| Q | | | | |

HUMAN – ROBOT DIFFERENT FORMS OF INTERACTION

CONVENTIONAL COMPONENTS

Automation cell



- Separated workspaces
- ► Workpiece handling in a secure area
- All gripping systems can be used
- Decoupled work
- No contact necessary
- Maximum speed

Coexistence



- Detection of presence
- Workpiece handling in a secure area
- All gripping systems can be used
- Separated workspaces
- Decoupled work
- No contact necessary
- Reduced speed

HRC COMPONENTS

Cooperation



- Zones of action
- Workpiece handling in a secure area
- Gripper with special HRC geometry
- Secure holding of the workpiece even if the power supply fails
- Shared workspaces
- Coupled work
- No contact necessary
- Reduced speed

Collaboration



- Shared workspaces
- Workpiece handling in a unsecure area
- Gripper with special HRC geometry and reliable gripping force limiter
- Gripping force limited to a max. of 140 N as per ISO/TS 15066
- Secure holding of the workpiece even if the power supply fails
- Coupled work
- Contact is necessary
- Reduced speed

HMI CONFIGURATION PACKAGE EASY-TO-USE PACKAGE



* Available separately

| | Zimmer Easy-to-Use Package for UR ¹ | | | |
|-------------|--|---|--|--|
| Part number | Article | Description | | |
| | IO-Link master | IO-Link master | | |
| ZUB068713 | Connecting cable, M8 4-pin 5 m | Cable for supplying power to the master | | |
| 208000713 | Cable for connecting the Modbus to the master | Communications cable between the robot and master RJ 45 | | |
| | UR-Caps (software) | HMI for UR robots | | |

| | Required ac | cessories according to g | ripper series | | | | | |
|-------------|----------------------------------|--|----------------------------------|--|---------------------|---------------------|---------------------|---------------------|
| Part number | Article | Description | GPP5000IL ^{3, 4} | GEP2000IL, GEH6000IL, GEP5000IL, GED5000IL ³ | HRC-01 ³ | HRC-03 ³ | HRC-04 ³ | HRC-05 ³ |
| KAG500 | Connecting cable M8 3-pin 5 m | STO cable (Safe Torque Off) | | | • | | | |
| KAG500IL | Connecting cable M12 5-pin 5m | Connection between IO-Link master and gripper | • | • | • | • | • | • |
| B12-Y-5IL | Y adapter | Splitting between data and power supply | | • | • | • | | |
| KAG500-02 | Connecting cable (Y to Power) | Connecting cable to power adapter | | • | • | • | | |
| CELE01442 | Power adapter ² | Power adapter for power supply (24V/10A) | | • | • | • | | |

| | Optional acc | essories | | | | | | |
|-------------|-------------------|-------------------------------------|-----------|---|--------|--------|--------|--------|
| Part number | Article | Description | GPP5000IL | GEP2000IL, GEH6000IL, GEP5000IL, GED5000IL | HRC-01 | HRC-03 | HRC-04 | HRC-05 |
| ZUB000009 | UR3 energy chain | Energy chain for robot of type UR3 | • | • | • | • | • | • |
| ZUB000010 | UR5 energy chain | Energy chain for robot of type UR5 | • | • | • | • | • | • |
| ZUB000011 | UR10 energy chain | Energy chain for robot of type UR10 | • | • | • | • | • | • |



¹ The Easy-to-Use Package is required once per robot and enables the operation of up to 4 different IO-Link grippers.
 ² The power adapter provides 10 A (15 A peak). Please observe the current draw of the respective gripper series.
 ³ These additions are needed each for one gripper. The energy chains are optional here.
 ⁴ The following hose outer diameter is recommended: GPP5006: 4 mm / GPP5008: 4 mm / GPP5010: 6 mm

HUMAN-ROBOT COLLABORATION EASY TO INTEGRATE – EASY TO HANDLE

WHAT IS HUMAN-ROBOT COLLABORATION?

The demographic development in industrial countries will lead to comprehensive changes in the working world in coming years. In the future, people will collaborate more and more with robots or have their work supported by robots. For this vision of a collaborative working world to become reality, however, we need more than just a new kind of safe robot with overload limiters, comprehensive sensors and fast-reacting control systems. The tool at the end of the robot also has to satisfy comprehensive requirements with respect to occupational safety, work environment, use of equipment, approval and acceptance, etc. The directives concerning specification of the safety-related requirements for robots, ISO 10218 and their technical specification ISO/TS 15066, currently describe the forms of collaboration. Even though these regulations are currently valid, they are being revisited by both DIN and CEN in the context of collaborative use of robots. That's why a product developed for this purpose should go beyond the current requirements. The HRC gripper series from Zimmer Group have been designed in accordance with recommendations from BG/DGUV (German occupational insurance association / German Social Accident Insurance).

HRC FROM THE EXPERTS

As a pioneer and one of the world's leading manufacturers of HRC grippers, Zimmer Group develops components specifically for this work environment to reduce the physical load on the employees, mitigate against monotonous work steps, prevent accidents and increase the efficiency of workflows through human-robot collaboration.

EASY TO INTEGRATE

Naturally, however, not only the world's best HRC grippers are available for Universal Robots, but also a comprehensive system module specially matched to your model. This provides a broad selection of grippers and handling components with corresponding accessories, so that you don't have to worry about compatibility and integration. Of course, this system module also includes HRC and Industrie 4.0 components that are compatible with your robot. These open up numerous advantages for you: easy to install, easy to configure, easy to operate, advanced diagnostics and preventive maintenance as well as the ability to make replacements while operation is in progress.

EASY TO HANDLE

The components are operated either using the central control system or, as is the case for most components, using the integrated control panel or via an app. The app offers users the maximum level of flexibility when creating, storing and restoring device parameters and also provides assistance during diagnostics/preventive maintenance. Furthermore, the HRC grippers and conventional grippers offer the user practical, pre-programmed movement profiles, which can be adjusted to the individual requirements of the gripping application with just a few mouse clicks. This ensures that complete implementation and commissioning are possible for any user within just a few minutes.



HRC COMPONENTS THE SERIES AT A GLANCE



2-JAW PARALLEL GRIPPERS 2-JAW ANGULAR GRIPPERS COLLABORATIVE COLLABORATIVE ELECTRIC PNEUMATICALLY INTELLIGENT HRC-03-072844 HRC-05-072836 37.5° Stroke per jaw: 10mm Stroke per jaw: < 140 N < 140 N Gripping force (max.): Gripping force (max.): 🛛 IO-Link IO-Link 0.82 kg Weight: IP class: 0.68 kg Weight: IP class: 40 40 10 million cycles Maintenance-free (max.): 10 million cycles Maintenance-free (max.): 17 Gripping force safety device in case of pressure failure via integrated spring

Mechanical self-locking mechanism in the event of a power drop

PNEUMATICALLY INTELLIGENT

HRC-04-072810

17

IO-Link

Stroke per jaw: Gripping force (max.): Weight: IP class: Maintenance-free (max.):

6mm < 140 N 0.76 kg 40 10 million cycles

Gripping force safety device in case of pressure failure via integrated spring

| UR5 | UR10 |
|--------------|---------------|
| 2-JAW PARALL | EL GRIPPERS |
| COOPERATIVE | COLLABORATIVE |

| | COOPERATIVE | | | COLLABORATIVE | |
|-----------------|--|---|-----------------|---|--|
| | ELECTRIC | | | ELECTRIC | |
| HRC-01-072802 * | Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 60mm 950N 1.6kg 40 5 million cycles | HRC-01-072819 * | Stroke per jaw: Gripping force (max.): Weight: IP class: Maintenance-free (max.): | 60 mm < 140 N 1.8 kg 40 5 million cycles |

STO safety functions + mechanical self-locking mechanism in the event of a power drop

| HRC-01-072824 ** * IO-Link | Stroke per jaw: Gripping force: Weight: IP class: | 60 mm 950 N 1.6 kg 40 |
|-------------------------------|--|--------------------------------|
| | IP class: Maintenance-free (max.): | 40 5 million cycles |

STO safety functions + mechanical self-locking mechanism in the event of a power drop $% \left({{{\rm{D}}_{\rm{s}}}} \right)$

 HRC-01-072830 **
 Stroke per jaw:
 60 mm

 ⊗ IO-Link
 Gripping force (max.):
 < 140 N</th>

STO safety functions + mechanical self-locking mechanism in the event of a power drop + safety gripper jaws prevent 140 N from being exceeded

| (O- Link | -11 | 2 |
|------------------|-----|---|
| | | |

 Stroke per jaw:
 60 mm

 Gripping force (max.):
 < 1401</td>

 Weight:
 1.8 kg

 IP class:
 40

 Maintenance-free (max.):
 5 millio

40 ance-free (max.): 5 million cycles

STO safety functions + mechanical self-locking mechanism in the event of a power drop + safety gripper jaws prevent 140N from being exceeded

| HRC-03-072844 | | | |
|-------------------|----|--|--|
| ð IO- Link | * | | |
| | 20 | | |

Stroke per jaw: Gripping force (max.): Weight: IP class: Maintenance-free (max.):

40 e (max.): 10 million cycles

10 mm

< 140 N 0.68 kg

6mm

< 140 N

Mechanical self-locking mechanism in the event of a power drop

| PNEUMATICALLY INTELLIGEN |
|--------------------------|
|--------------------------|

| HRC-04-07 | 2810 |
|-------------------|-------|
| ð 10- Link | |
| | 1.126 |

37

Stroke per jaw: Gripping force (max.): Weight: IP class: Maintenance-free (max.):

0.76 kg 40 10 million cycles

Gripping force safety device in case of pressure failure via integrated spring

| 2 14 | W ANGULAR GRIPPEI | De | | |
|---------------|--|---|--|--|
| Z-JA | W ANGOLAN GRIPPEI | 10 | | |
| | COLLABORATIVE | | | |
| PNEU | MATICALLY INTELLIG | ENT | | |
| HRC-05-072836 | Stroke per jaw: | 37.5° | | |
| € IO-Link | Gripping force (max.): Weight: IP class: Maintenance-free (max.): | < 140 N 0.82 kg 40 10 million cycles | | |

Gripping force safety device in case of pressure failure via integrated spring

CONVENTIONAL COMPONENTS CONNECTION VIA MCS





CONVENTIONAL COMPONENTS THE SERIES AT A GLANCE

| | | 2-0AW FANAI | LEL GRIPPERS | | |
|----------------------|---|---|------------------------|---|---|
| | PNEUMATIC | | | ELECTRIC | |
| GPP1000 | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 1 4 mm - 16 mm 100 N 0.16 kg - 0.20 kg 30 2 million cycles | GEP2000 TO-Link | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 3 10 mm - 16 mm 50 N - 500 N 0.31 kg - 0.9 kg 40 10 million cycles |
| 3PP5000 | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 11 2mm - 45mm 140N - 26950N 0.08kg - 50kg 64/67 30 million cycles | GEP5000 IO-Link | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 3 6 mm - 10 mm 540 N - 1520 N 0.79 kg - 1.66 kg 64 30 million cycles |
| | UMATICALLY INTELLIG | ENT | | | |
| PP5000IL DIO-Link | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 3 3 mm - 10 mm 330 N - 2890 N 0.45 kg - 1.45 kg 64 30 million cycles | | | |
| | 2-JAW PA | RALLEL GRIP | PERS WITH LON | G STROKE | |
| | PNEUMATIC | | | ELECTRIC | |
| GH6000 | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 5 20mm - 200mm 120N - 3400N 0.3 kg - 22.7 kg 40 10 million cycles | GEH6000IL © IO-Link | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 2 up to 80mm 100 N - 2400 N 0.7 kg - 2.6 kg 54 5 million cycles |
| | ; | | NTRIC GRIPPER | S | |
| | PNEUMATIC | | | ELECTRIC | |
| GPD5000 | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 11 2mm - 45mm 310N - 72500N 0.14kg - 99.9kg 64/67 30 million cycles | GED5000 TIO-Link | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 3 6 mm - 10 mm 540 N - 1520 N 1.09 kg - 2.33 kg 64 30 million cycles |
| PNE | UMATICALLY INTELLIG | ENT | | | |
| GPD5000IL DI-Link | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 3 3 mm - 10 mm 740 N - 7160 N 0.75 kg - 2.5 kg 64 30 million cycles | | | |
| | | 2-JAW ANGU | LAR GRIPPERS | | |
| | PNEUMATIC | | | | |
| GPW5000 | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 3 +15°/-2° 1450N - 14500N 0.9 kg - 12.1 kg 64 30 million cycles | | | |

CONVENTIONAL COMPONENTS CONNECTION VIA MCS





CONVENTIONAL COMPONENTS THE SERIES AT A GLANCE

"Handling technology 3" catalog or visit us online at

www.zimmer-group.com.

| | | | LEL GRIPPERS | | |
|--------------------------------------|---|--|--------------|---|---|
| | | PNEU | MATIC | | |
| GPP1000 | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 1 4 mm - 16 mm 100 N 0.16 kg - 0.20 kg 30 2 million cycles | MGP800 | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 8 1 mm - 12 mm 6 N - 400 N 0.008 kg - 0.46 kg 40 10 million cycles |
| | 2-JAW PA | RALLEL GRIPP | ERS WITH LON | IG STROKE | |
| | | PNEU | MATIC | | |
| GH6000 | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 5 20mm - 200mm 120N - 3400N 0.3 kg - 22.7 kg 40 10 million cycles | | | |
| | | 2-JAW ANGUL | AR GRIPPERS | ; | |
| | | PNEU | MATIC | | |
| GZ1000 | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 3 8°- 11° 62N - 315N 0.015 kg - 0.125 kg 30 10 million cycles | MGW800 | Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance-free (max.): | 8 37.5° 5N - 325N 0.01 kg - 0.45 kg 30 10 million cycles |
| | (| GRIPPERS FOR | SPECIAL TASI | KS | |
| | INTERNAL GRIPPER | | | MAGNETIC GRIPPER | |
| LG1000 | Total stroke in Ø: Gripping diameter (min.): Gripping diameter (max.): Slip force (max.): Weight: | 2.5 mm - 3.5 mm 8 mm - 15 mm 10.5 mm - 18.5 mm 53 N - 58 N 0.028 kg - 0.041 kg | HM1000 | Adhesive force (max.): Weight: | 27 N - 450 N 0.06 kg - 2.2 kg |
| | CUTTING TONGS | | | | |
| zк1000 | Stroke per jaw: Gripping moment in closing: Weight: | 4.25°- 13° 14 Nm - 400 Nm 0.08 kg - 0.67 kg | - | | |
| | | | | | |
| NCS – MOD | ULAR CONSTRUCTIO | DN SYSTEM | | | |
| create a workpie | nstruction system (MCS) can ce-specific solution without ir rts. This is made possible by onents. | ncreased | | | |
| modules, suctior guarantee a secu | tfolio includes profiles, comp n cup mounts as well as gripp ure grip on the workpiece dur view of all the MCS compone | er fingers that ring motion. For | | e E | TR |

MODULAR CONSTRUCTION SYSTEM (MCS) CONNECTION EXAMPLES



CONNECTION EXAMPLE GPP1000 SERIES

| UR ROBOTS UR3/ UR5/ UR10 | |
|---------------------------|--|
| 1 Adapter plate APR000002 | |
| 2 MCS Profile* | |
| 3 Adapter plate APR000006 | |
| 4 Series GPP1000 | |

* See the Handling technology 3 catalog



* See the Handling technology 3 catalog

CONNECTION EXAMPLE MGP800 and MGW800 SERIES

UR ROBOTS UR3/ UR5 / UR10

- 1 Adapter plate APR000002
- 2 MCS Profile*
- 3 MCS Clamp SO-23120022*
- 4 Adapter plate APR000004/APR000005
- 5 Series MGP800 and MGW800



CONNECTION EXAMPLE GEH6000IL/GH6000 SERIES

| UR ROBOTS UR3/ UR5/ UR10 |
|---------------------------|
| 1 Adapter plate APR000002 |
| 2 MCS Profile* |
| 3 MCS Cross clamp* |
| 4 MCS Profile* |
| 5 Series GEH6000IL/GH6000 |
| |

* See the Handling technology 3 catalog

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The contents and data correspond to the status as of printing. Edition 06/2018.

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ZIMMER GROUP - THE KNOW-HOW FACTORY

NEW TECHNOLOGY, COMPONENTS, BUSINESS DIVISIONS AND LOCATIONS ACROSS THE GLOBE — OUR COMPANIES HAVE BECOME STRONG AND OUR RANGE OF PRODUCTS HAS GROWN MORE DIVERSE.

THE NEW ZIMMER GROUP UMBRELLA BRAND HELPS GIVE YOU DIRECTION AMONG THIS NEW DIVERSITY. IT COMBINES THE COMPANIES ZIMMER GMBH, ZIMMER KUNSTSTOFFTECHNIK, ZIMMER DAEMPFUNGSSYSTEME AS WELL AS BENZ WERKZEUGSYSTEME INTO ONE PARTNER FOR YOUR PROJECTS: THE KNOW-HOW FACTORY.

CHALLENGE US. DISCOVER THE ENTIRE WORLD OF ZIMMER GROUP! IF YOU HAVE QUESTIONS ABOUT THE NEW ZIMMER GROUP AND OUR TECHNOLOGY, WE WOULD BE HAPPY TO ANSWER THEM.

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