THE KNOW-HOW FACTORY
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.
TECHNOLOGIES

HANDLING TECHNOLOGY
MORE THAN 30 YEARS OF EXPERIENCE AND INDUSTRY KNOWLEDGE: OUR PNEUMATIC, HYDRAULIC AND ELECTRICAL HANDLING COMPONENTS AND SYSTEMS ARE GLOBAL LEADERS.

Components. More than 2,000 standardized grippers, swivel units, robotic accessories and much more. We offer a complete selection of technologically superior products that are ready for rapid delivery.

Semi-standard. Our modular approach to design enables custom configurations and high rates of innovation for process automation.

DAMPING TECHNOLOGY
INDUSTRIAL DAMPING TECHNOLOGY AND SOFT CLOSE PRODUCTS EXEMPLIFY THE INNOVATION AND PIONEERING SPIRIT OF THE KNOW-HOW FACTORY.

Industrial damping technology. Whether standard or customized solutions, our products stand for the highest cycle rates and maximum energy absorption with minimal space requirements.

Soft Close. Development and mass production of pneumatic and fluid dampers with extraordinary quality and rapid delivery.

OEM and direct. Whether they need components, returning mechanisms or complete production lines – we are the trusted partner of many prestigious customers.

LINEAR TECHNOLOGY
WE DEVELOP LINEAR COMPONENTS AND SYSTEMS THAT ARE INDIVIDUALLY ADAPTED TO OUR CUSTOMERS’ NEEDS.

Clamping and braking elements. We offer you more than 4,000 types for profiled and round rails as well as for a variety of guide systems from all manufacturers. It makes no difference whether you prefer manual, pneumatic, electric or hydraulic drive.

Flexibility. Our clamping and braking elements ensure that movable components such as Z-axes or machining tables maintain a fixed position and that machines and systems come to a stop as quickly as possible in an emergency.

www.zimmer-group.com
PROCESS TECHNOLOGY
MAXIMUM EFFICIENCY IS ESSENTIAL FOR SYSTEMS AND COMPONENTS USED IN PROCESS TECHNOLOGY. HIGH-LEVEL CUSTOM SOLUTIONS ARE OUR TRADEMARK.

A rich reservoir of experience. Our know-how ranges from the development of materials, processes and tools through product design to production of series products.

Deep production capabilities. The Zimmer Group pairs these capabilities with flexibility, quality and precision, even when making custom products.

Series production. We manufacture demanding products out of metal (MIM), elastomers and plastics with flexibility and speed.

MACHINE TECHNOLOGY
ZIMMER GROUP DEVELOPS INNOVATIVE METAL, WOOD AND COMPOSITE MATERIAL PROCESSING TOOL SYSTEMS FOR ALL INDUSTRIES. NUMEROUS CUSTOMERS CHOOSE US AS THEIR SYSTEMS AND INNOVATION PARTNER.

Knowledge and experience. Industry knowledge and a decades-long development partnership in exchangeable assemblies, tool interfaces and systems make us bound for new challenges around the world.

Components. We deliver numerous standard components from stock and develop innovative, customized systems for OEM and end customers – far beyond the metal and wood processing industries.

Variety. Whether you have machining centers, lathes or flexible production cells, the power tools, holders, assemblies and drilling heads of Zimmer Group are ready for action.

SYSTEM TECHNOLOGY
ZIMMER GROUP IS ONE OF THE LEADING SPECIALISTS IN THE DEVELOPMENT OF CUSTOMIZED SYSTEM SOLUTIONS WORLDWIDE.

Customized. A team made up of more than 20 experienced designers and project engineers develop and produce customized solutions for special tasks in close collaboration with end customers and system integrators. It doesn’t matter if it is a simple gripper and handling solution or a complex system solution.

Solutions. These system solutions are used in many industries, from mechanical engineering to the automotive and supplier industries to plastics engineering and consumer goods industries, all the way to foundries. The Know-how Factory helps countless companies to thrive competitively by increasing automation efficiency.

www.zimmer-group.com
# ELECTRIC GRIPPERS
## OVERVIEW OF SERIES

### Electric Grippers

![Electric Gripper Image](image)

<table>
<thead>
<tr>
<th>Series</th>
<th>GEP2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of installation sizes</td>
<td>![Image]</td>
</tr>
<tr>
<td>Stroke per jaw [mm]</td>
<td>6 - 16</td>
</tr>
<tr>
<td>Gripping force [N]</td>
<td>40, 500</td>
</tr>
<tr>
<td>Voltage [V]</td>
<td>24</td>
</tr>
<tr>
<td>Current consumption max. [A]</td>
<td>2</td>
</tr>
<tr>
<td>Weight [kg]</td>
<td>0.18 - 0.9</td>
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### Control

<table>
<thead>
<tr>
<th>Equipment features</th>
<th>IL-00</th>
<th>IL-03</th>
<th>IO-00</th>
<th>IO-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positionable</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td>Integrated sensing</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td>Gripping force adjustable</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td>Protected against corrosion</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td>Purged air</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
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<tr>
<td>IP class</td>
<td>40</td>
<td>40</td>
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</table>

### Options

<table>
<thead>
<tr>
<th>Options</th>
<th>IL-00</th>
<th>IL-03</th>
<th>IO-00</th>
<th>IO-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnetic field sensor</td>
<td>![Image]</td>
<td></td>
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</table>

### Safety characteristics

<table>
<thead>
<tr>
<th>Safety characteristics</th>
<th>IL-00</th>
<th>IL-03</th>
<th>IO-00</th>
<th>IO-05</th>
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<tbody>
<tr>
<td>Spring closing C</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td>Spring opening O</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td>Self locking mechanism</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
</tbody>
</table>

### Maintenance

<table>
<thead>
<tr>
<th>Maintenance</th>
<th>IL-00</th>
<th>IL-03</th>
<th>IO-00</th>
<th>IO-05</th>
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<tbody>
<tr>
<td>Maintenance-free cycles (max.)</td>
<td>10 million</td>
<td>10 million</td>
<td>10 million</td>
<td>10 million</td>
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### Electric Grippers

#### Overview of Series

<table>
<thead>
<tr>
<th>Model</th>
<th>GEP5000</th>
<th>GED5000</th>
<th>GEH6000IL</th>
<th>GED6000IL</th>
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<tr>
<td><strong>3</strong></td>
<td>6 - 10</td>
<td>6 - 10</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td><strong>3</strong></td>
<td>540 1520</td>
<td>540 1520</td>
<td>10 1800</td>
<td>15 1700</td>
</tr>
<tr>
<td><strong>3</strong></td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
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<tr>
<td><strong>3</strong></td>
<td>5</td>
<td>5</td>
<td>2 A (-31) / 7.5 A (-03)</td>
<td>5</td>
</tr>
<tr>
<td><strong>3</strong></td>
<td>0.79 - 1.66</td>
<td>1.09 - 2.33</td>
<td>0.7 - 2.6</td>
<td>2.8 - 4.9</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Feature</th>
<th>IL-00</th>
<th>IO-00</th>
<th>IL-00</th>
<th>IO-00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital I/O</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>IO-Link</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64*</td>
<td>64*</td>
<td>64*</td>
<td>64*</td>
<td>54</td>
</tr>
</tbody>
</table>

* with purged air (max. 0.5 bar)

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*Data, Drawings, 3-D Models, Operating Instructions*  
www.zimmer-group.com
2-JAW PARALLEL GRIPPERS
SERIES GEP2000

► PRODUCT ADVANTAGES

“The electric compact one”

► Largest stroke in small installation space
Do you require a large stroke, due to the fact that you are operating either a form fit gripper or a large range of parts but the installation space and the load capacity of your application is limited? Then this gripper is perfect for you!

► The simplest activation
It is your choice whether you want to control the gripper by means of I/O ports—like a valve—or if you prefer the version with IO-Link. Both have this in common: they are easy to integrate into your control system.

► Positionability via IO-Link
Gives you the ability to position the gripper jaws of the IL-03 variant. This means the stroke can be adjusted to the workpiece very flexibly. As a result, you save time and avoid interference contours in the process.

► SERIES CHARACTERISTICS

<table>
<thead>
<tr>
<th>Installation size</th>
<th>Variants</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEP20XX</td>
<td>IL-00</td>
</tr>
<tr>
<td><img src="image" alt="IO-Link" /></td>
<td><img src="image" alt="Digital I/O" /></td>
</tr>
</tbody>
</table>

- GEP20XX: Base model for a wide range of applications.
- IO-Link: Enables easy communication with your control system.
- Digital I/O: Supports standard control signals for compatibility.
- Positionable: Allows precise positioning of the gripper jaws.
- 10 million maintenance-free cycles (max.): Ensures long-term reliability.
- Magnetic field sensor: Detects the presence of objects without physical contact.
- Integrated sensing: Enhances safety and efficiency in various applications.
- Gripping force adjustable: Customizable force for different materials.
- Self locking mechanism: Maintains grip even in the event of power failure.
- IP40: Dustproof and protected against splashing water.
BENEFITS IN DETAIL

1. **Control**
   - Via I/O ports (IO) or via IO-Link (IL)

2. **Mounting and positioning**
   - Mounting possible from several sides for versatile positioning

3. **BLDC motor**
   - Wear-resistant brushless DC motor

4. **Helical worm gear**
   - Self-locking mechanism in case of power drop

5. **Position sensing**
   - Permanent magnet for direct query of jaw movement via magnetic field sensors

6. **Gripper jaw**
   - Individual gripper finger mounting

7. **Removable centering sleeves**
   - Quick and economical positioning of the gripper fingers

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Installation size</th>
<th>Stroke per jaw [mm]</th>
<th>Gripping force [N]</th>
<th>Weight [kg]</th>
<th>IP class</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEP2006</td>
<td>6</td>
<td>40 - 145</td>
<td>0.18</td>
<td>IP40</td>
</tr>
<tr>
<td>GEP2010</td>
<td>10</td>
<td>50 - 200</td>
<td>0.31</td>
<td>IP40</td>
</tr>
<tr>
<td>GEP2013</td>
<td>13</td>
<td>90 - 360</td>
<td>0.54</td>
<td>IP40</td>
</tr>
<tr>
<td>GEP2016</td>
<td>16</td>
<td>125 - 500</td>
<td>0.9</td>
<td>IP40</td>
</tr>
</tbody>
</table>

FURTHER INFORMATION

- Adjustable gripping force
  - Four-level gripping force adjustment via rotary switch for digital gripper control
  - For the IO-Link variant, gripping force can be conveniently adjusted using the control system

- Operating safety
  - Mechanical self-locking mechanism, which means that in the event of a power failure, the workpiece is held securely
  - Gripper can be mechanically opened by means of an Allen key
1. **IO-LINK CONTROL — GEP2000IL**

   - 24V
   - Field bus
   - Digital control data
   - Status data

2. **DIGITAL CONTROL — GEP2000IO-00**

   - Digital sensor feedback
   - Digital control data

3. **DIGITAL CONTROL + INTEGRATED ANALOG SENSING — GEP2000IO-05**

   - Analog sensor data
   - Path
   - 0-10V
1  ► IO-LINK CONTROL — GEP2000IL
   ► Single-cable solution—control system data, status/sensor data and power supply over a single cable
   ► Bi-directional data transmission
   ► Gripping force and gripping speed can be configured using software
   ► 32 workpieces data sets can be programmed
   ► Parts detection in range of +/- 0.05 mm with freely teachable area
   ► Status data such as temperature and cycle number can be read out
   ► Can be integrated into ZIMMER HMI
   ► Positionable (only variant IL-03)

2  ► DIGITAL CONTROL — GEP2000IO-00
   ► Single-cable solution—control system data and power supply over a single cable
   ► Gripper commissioning by means of digital signals
   ► Optional digital gripper position feedback via external sensors
   ► Gripping force adjustment in four levels to the object being gripped, using rotary switch
   ► Can be integrated into ZIMMER HMI

3  ► DIGITAL CONTROL + INTEGRATED ANALOG SENSING — GEP2000IO-05
   ► Single-cable solution—control system data, sensor data and power supply over a single cable
   ► Gripper activation by means of digital signals
   ► Integrated analog feedback of the gripper position
   ► Gripping force adjustment in four levels to the object being gripped, using rotary switch
   ► Can be integrated into ZIMMER HMI
**SENSORS**

1-point magnetic field sensors – MFS
For non-contact sensing of the piston position
The sensor is clamped in the C-groove of the gripper and detects the magnet attached to the gripper jaws. The MFS02 is available in versions with 5 m cables with exposed leads and 0,3 m cable with connector.

2-point magnetic field sensors – MFS
With two freely programmable switching points
Using the programming unit integrated in the cable, two switch points can be freely defined for this sensor. To do so, the sensor is clamped in the C-groove, the gripper approaches position one and the position is taught in using the teach button. Afterwards, the second position is approached with the gripper and programmed. To ensure use in a wide variety of space conditions, the sensors are available in two variants. While the horizontal MFS02, with straight cable outlet, disappears into the C-groove of the gripper almost completely, the vertical MFS01 is taller, but has a cable outlet that is offset at an angle of 90°. The sensors are available in versions with 5 m cables with exposed leads and 0,3 m cable with connector.
**Plug-in connectors**
For extending and fabricating the connection lines
Cables with a length of 5 m with exposed leads are available. Depending on the specific needs, the cables can be shortened or fabricated with connectors in sizes M8 and M12. A 5 m long cable with connector / socket is available for the IO-Link connection.

**Adapter plate**
Additional screw connection option
By attaching the optional adapter plate, the gripper can also be screwed on vertically (from above) if the fastening options integrated into the gripper housing cannot be used for space reasons.
Centering sleeves
For defined position measurement of the gripper fingers
The centering sleeves are inserted into the fits of the gripper jaws to define the position of the gripper fingers. The centering sleeves are comparable to a pin connection.
2-JAW PARALLEL GRIPPERS
INSTALLATION SIZE GEP2006

► PRODUCT SPECIFICATIONS

![Gripping force diagram](image)

**Forces and moments**
Displays static forces and moments that can also have an effect, besides the gripping force.

| Mr [Nm] | 2.5 |
| My [Nm] | 2  |
| Fa [N]  | 140 |

► TECHNICAL DATA

<table>
<thead>
<tr>
<th>Order no.</th>
<th>GEP2006IL-00-B</th>
<th>GEP2006IL-03-B</th>
<th>GEP2006IO-00-B</th>
<th>GEP2006IO-05-B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Positionable</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Integrated position sensing</td>
<td>Using process data</td>
<td>Using process data</td>
<td>No</td>
<td>Analog 0 to 10 V</td>
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<td>Stroke per jaw [mm]</td>
<td>6</td>
<td>6</td>
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<td>6</td>
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<tr>
<td>Gripping force safety device</td>
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<td>mechanical</td>
<td>mechanical</td>
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<tr>
<td>Control time [s]</td>
<td>0.03</td>
<td>0.03</td>
<td>0.03</td>
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<tr>
<td>Dead weight of mounted gripper finger max. [kg]</td>
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<td>0.05</td>
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<tr>
<td>Length of the gripper fingers max. [mm]</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
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<tr>
<td>Repetition accuracy +/- [mm]</td>
<td>0.02</td>
<td>0.02</td>
<td>0.02</td>
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<tr>
<td>Operating temperature [°C]</td>
<td>5 ... +60</td>
<td>5 ... +60</td>
<td>5 ... +60</td>
<td>5 ... +60</td>
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<td>Voltage [V]</td>
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<tr>
<td>Current consumption max. [A]</td>
<td>1</td>
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<td>1</td>
<td>1</td>
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<td>Minimum positioning path per jaw [mm]</td>
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<td>Weight [kg]</td>
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► TECHNICAL DATA OF THE FORCE LEVELS

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<thead>
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<td>40</td>
<td>40</td>
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<tr>
<td>Closing time / Opening time [s]</td>
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<td>0.21 / 0.21</td>
<td>0.21 / 0.21</td>
<td>0.21 / 0.21</td>
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<thead>
<tr>
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<th>GEP2006IO-00-B</th>
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<tr>
<td>Gripping force [N]</td>
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<td>Closing time / Opening time [s]</td>
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<th>Order no.</th>
<th>GEP2006IL-00-B</th>
<th>GEP2006IL-03-B</th>
<th>GEP2006IO-00-B</th>
<th>GEP2006IO-05-B</th>
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<tbody>
<tr>
<td>Gripping force [N]</td>
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<td>110</td>
<td>110</td>
<td>110</td>
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<tr>
<td>Closing time / Opening time [s]</td>
<td>0.12 / 0.12</td>
<td>0.12 / 0.12</td>
<td>0.12 / 0.12</td>
<td>0.12 / 0.12</td>
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<th>GEP2006IO-00-B</th>
<th>GEP2006IO-05-B</th>
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<td>145</td>
<td>145</td>
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<tr>
<td>Closing time / Opening time [s]</td>
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<td>0.1 / 0.1</td>
<td>0.1 / 0.1</td>
<td>0.1 / 0.1</td>
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TECHNICAL DRAWINGS

1. Gripper attachment
2. Energy supply (IO-Link, M12, 5-pole)
3. Fixing for gripper finger
4. Integrated slot for magnetic field sensor
5. Energy supply (M8, 4-pole)
6. Energy supply (M8, 5-pole)
7. Force level setting
8. Gripper mounting clamp

Gripper attachment

Energy supply (IO-Link, M12, 5-pole)

Fixing for gripper finger

Integrated slot for magnetic field sensor

Energy supply (M8, 4-pole)

Energy supply (M8, 5-pole)

Force level setting

Gripper mounting clamp

Gripper attachment
2-JAW PARALLEL GRIPPERS
INSTALLATION SIZE GEP2006

► ACCESSORIES

► INCLUDED IN DELIVERY

6 [piece]
Centering Disc
354237

► YOU CAN FIND CONFIGURATION EXAMPLES ON PAGE 32 / 33
► RECOMMENDED ACCESSORY GEP2006IL

CONNECTIONS / OTHER

KAG500IL
Plug-in connector straight 5 m - plug, socket M12

AP2006
Adapter plate

SCM-C-00-00-A
Smart Communication Module

► RECOMMENDED ACCESSORY GEP2006IO-00-B

SENSORS

MFS01-S-KHC-P1-PNP
Magnetic field sensor angled, cable 0.3 m - M8 connector

MFS02-S-KHC-P1-PNP
Magnetic field sensor straight, cable 0.3 m - M8 connector

MFS01-S-KHC-P2-PNP
2-point sensor angled, cable 0.3 m - M8 connector

MFS02-S-KHC-P2-PNP
2-point sensor straight, cable 0.3 m - M8 connector

► RECOMMENDED ACCESSORY GEP2006IO-05-B

CONNECTIONS / OTHER

KAG500B4
Plug-in connector Straight Cable 5m - Socket M8 (female)

S8-G-3
Plug-in connector customiz- able Straight - Connector M8

S8-G-4
Plug-in connector customiz- able Straight - Connector M8

AP2006
Adapter plate

Installation size GEP2006 / 2-Jaw Parallel Grippers / electrical / Grippers

Data, Drawings, 3-D Models, Operating Instructions ◄ www.zimmer-group.com
2-JAW PARALLEL GRIPPERS
INSTALLATION SIZE GEP2010

PRODUCT SPECIFICATIONS

Gripping force diagram

Forces and moments

<table>
<thead>
<tr>
<th>Mr [Nm]</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mx [Nm]</td>
<td>7</td>
</tr>
<tr>
<td>My [Nm]</td>
<td>5.5</td>
</tr>
<tr>
<td>Fa [N]</td>
<td>200</td>
</tr>
</tbody>
</table>

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Order no.</th>
<th>GEP2010IL-00-B</th>
<th>GEP2010IL-03-B</th>
<th>GEP2010IO-00-B</th>
<th>GEP2010IO-05-B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td>IO-Link</td>
<td>IO-Link</td>
<td>Digital I/O</td>
<td>Digital I/O</td>
</tr>
<tr>
<td>Positionable</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Analog 0 to 10 V</td>
</tr>
<tr>
<td>Integrated position sensing</td>
<td>Using process data</td>
<td>Using process data</td>
<td>No</td>
<td>Using process data</td>
</tr>
<tr>
<td>Stroke per jaw [mm]</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Gripping force safety device</td>
<td>mechanical</td>
<td>mechanical</td>
<td>mechanical</td>
<td>mechanical</td>
</tr>
<tr>
<td>Control time [s]</td>
<td>0.03</td>
<td>0.03</td>
<td>0.03</td>
<td>0.03</td>
</tr>
<tr>
<td>Dead weight of mounted gripper finger max. [kg]</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
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<tr>
<td>Length of the gripper fingers max. [mm]</td>
<td>80</td>
<td>80</td>
<td>80</td>
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<tr>
<td>Repetition accuracy +/- [mm]</td>
<td>0.02</td>
<td>0.02</td>
<td>0.02</td>
<td>0.02</td>
</tr>
<tr>
<td>Operating temperature [°C]</td>
<td>5 ... +60</td>
<td>5 ... +60</td>
<td>5 ... +60</td>
<td>5 ... +60</td>
</tr>
<tr>
<td>Voltage [V]</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Current consumption max. [A]</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Minimum positioning path per jaw [mm]</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
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<tr>
<td>Protection to IEC 60529</td>
<td>IP40</td>
<td>IP40</td>
<td>IP40</td>
<td>IP40</td>
</tr>
<tr>
<td>Weight [kg]</td>
<td>0.31</td>
<td>0.31</td>
<td>0.31</td>
<td>0.31</td>
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TECHNICAL DATA OF THE FORCE LEVELS

<table>
<thead>
<tr>
<th>Order no.</th>
<th>GEP2010IL-00-B</th>
<th>GEP2010IL-03-B</th>
<th>GEP2010IO-00-B</th>
<th>GEP2010IO-05-B</th>
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</thead>
<tbody>
<tr>
<td>Gripping force [N]</td>
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<td>50</td>
<td>50</td>
<td>50</td>
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<td>Closing time / Opening time [s]</td>
<td>0.3 / 0.3</td>
<td>0.3 / 0.3</td>
<td>0.3 / 0.3</td>
<td>0.3 / 0.3</td>
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</table>

<table>
<thead>
<tr>
<th>Order no.</th>
<th>GEP2010IL-00-B</th>
<th>GEP2010IL-03-B</th>
<th>GEP2010IO-00-B</th>
<th>GEP2010IO-05-B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gripping force [N]</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Closing time / Opening time [s]</td>
<td>0.25 / 0.25</td>
<td>0.25 / 0.25</td>
<td>0.25 / 0.25</td>
<td>0.25 / 0.25</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order no.</th>
<th>GEP2010IL-00-B</th>
<th>GEP2010IL-03-B</th>
<th>GEP2010IO-00-B</th>
<th>GEP2010IO-05-B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gripping force [N]</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>Closing time / Opening time [s]</td>
<td>0.22 / 0.22</td>
<td>0.22 / 0.22</td>
<td>0.22 / 0.22</td>
<td>0.22 / 0.22</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order no.</th>
<th>GEP2010IL-00-B</th>
<th>GEP2010IL-03-B</th>
<th>GEP2010IO-00-B</th>
<th>GEP2010IO-05-B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gripping force [N]</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Closing time / Opening time [s]</td>
<td>0.19 / 0.19</td>
<td>0.19 / 0.19</td>
<td>0.19 / 0.19</td>
<td>0.19 / 0.19</td>
</tr>
</tbody>
</table>

www.zimmer-group.com  Data, Drawings, 3-D Models, Operating Instructions
1. Gripper attachment
2. Energy supply (ID-Link (M12, 5-pole)
3. Fixing for gripper finger
4. Integrated slot for magnetic field sensor
5. Energy supply (M8, 4-pole)
6. Energy supply (M8, 5-pole)
7. Force level setting
8. Gripper mounting clamp

Installation size GEP2010 / 2-Jaw Parallel Grippers / electrical / Grippers

Gripper attachment
Energy supply (ID-Link (M12, 5-pole)
Fixing for gripper finger
Integrated slot for magnetic field sensor
Energy supply (M8, 4-pole)
Energy supply (M8, 5-pole)
Force level setting
Gripper mounting clamp
2-JAW PARALLEL GRIPPERS
INSTALLATION SIZE GEP2010

► ACCESORIES

6 [piece] Centering Disc
390677

► INCLUDED IN DELIVERY

► YOU CAN FIND CONFIGURATION EXAMPLES ON PAGE 32 / 33
**RECOMMENDED ACCESSORY GEP2010IL**

### CONNECTIONS / OTHER

- **KAG500IL**
  - Plug-in connector straight
  - 5 m - plug, socket M12

- **AP2010**
  - Adapter plate

- **SCM-C-00-00-A**
  - Smart Communication Module

**SENSEORS**

- **MFS01-S-KHC-P1-PNP**
  - Magnetic field sensor angled,
  - cable 0.3 m - M8 connector

- **MFS02-S-KHC-P1-PNP**
  - Magnetic field sensor straight,
  - cable 0.3 m - M8 connector

- **MFS01-S-KHC-P2-PNP**
  - 2-point sensor angled,
  - cable 0.3 m - M8 connector

- **MFS02-S-KHC-P2-PNP**
  - 2-point sensor straight,
  - cable 0.3 m - M8 connector

**CONNECTIONS / OTHER**

- **KAG500**
  - Plug-in connector Straight Cable 5m - Socket M8 (female)

- **KAG500B4**
  - Plug-in connector Straight Cable 5m - Socket M8 (female)

- **S8-G-3**
  - Plug-in connector customizable Straight - Connector M8

- **S8-G-4**
  - Plug-in connector customizable Straight - Connector M8

**ADDITIONAL ACCESSORY**

- **AP2010**
  - Adapter plate

**RECOMMENDED ACCESSORY GEP2010IO-00-B**

**CONNECTIONS / OTHER**

- **KAG500B5**
  - Plug-in connector Straight Cable 5m - Socket M8 (female)

**RECOMMENDED ACCESSORY GEP2010IO-05-B**

**CONNECTIONS / OTHER**

- **AP2010**
  - Adapter plate

Data, Drawings, 3-D Models, Operating Instructions  [www.zimmer-group.com](http://www.zimmer-group.com)
# 2-JAW PARALLEL GRIPPERS
## INSTALLATION SIZE GEP2013

### PRODUCT SPECIFICATIONS

**Gripping force diagram**
Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length.

**Forces and moments**
Displays static forces and moments that can also have an effect, besides the gripping force.

Mr [Nm] 13  
Mx [Nm] 13  
My [Nm] 10  
Fa [N] 325

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Technical data</th>
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</thead>
<tbody>
<tr>
<td>GEP2013IL-00-A</td>
<td>GEP2013IO-00-A</td>
</tr>
<tr>
<td>Control</td>
<td>Using process data</td>
</tr>
<tr>
<td>Integrated position sensing</td>
<td>No</td>
</tr>
<tr>
<td>Stroke per jaw [mm]</td>
<td>13</td>
</tr>
<tr>
<td>Gripping force safety device</td>
<td>mechanical</td>
</tr>
<tr>
<td>Control time [s]</td>
<td>0.055</td>
</tr>
<tr>
<td>Dead weight of mounted gripper finger max. [kg]</td>
<td>0.15</td>
</tr>
<tr>
<td>Length of the gripper fingers max. [mm]</td>
<td>100</td>
</tr>
<tr>
<td>Repetition accuracy +/- [mm]</td>
<td>0.02</td>
</tr>
<tr>
<td>Operating temperature [°C]</td>
<td>+5 ... +60</td>
</tr>
<tr>
<td>Voltage [V]</td>
<td>24</td>
</tr>
<tr>
<td>Current consumption max. [A]</td>
<td>2</td>
</tr>
<tr>
<td>Minimum positioning path per jaw [mm]</td>
<td>IP40</td>
</tr>
<tr>
<td>Protection to IEC 60529</td>
<td>0.54</td>
</tr>
</tbody>
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### TECHNICAL DATA OF THE FORCE LEVELS

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
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</thead>
<tbody>
<tr>
<td>GEP2013IL-00-A</td>
<td>GEP2013IO-00-A</td>
<td>GEP2013IO-05-A</td>
<td>GEP2013IO-00-A</td>
<td>GEP2013IO-05-A</td>
</tr>
<tr>
<td>Gripping force [N]</td>
<td>90</td>
<td>180</td>
<td>270</td>
<td>360</td>
</tr>
<tr>
<td>Closing time / Opening time [s]</td>
<td>0.42 / 0.42</td>
<td>0.32 / 0.32</td>
<td>0.26 / 0.26</td>
<td>0.23 / 0.23</td>
</tr>
</tbody>
</table>

---

www.zimmer-group.com  Data, Drawings, 3-D Models, Operating Instructions
1. Gripper attachment
2. Energy supply (O-Link, M12, 5-pole)
3. Fixing for gripper finger
4. Integrated slot for magnetic field sensor
5. Energy supply (M8, 4-pole)
6. Energy supply (M8, 5-pole)
7. Force level setting
8. Gripper mounting clamp

---

Gripper attachment

Energy supply (O-Link, M12, 5-pole)

Fixing for gripper finger

Integrated slot for magnetic field sensor

Energy supply (M8, 4-pole)

Energy supply (M8, 5-pole)

Force level setting

Gripper mounting clamp

---

Installation size GEP2013 / 2-Jaw Parallel Grippers / electrical

Data, Drawings, 3-D Models, Operating Instructions  ► www.zimmer-group.com
2-JAW PARALLEL GRIPPERS
INSTALLATION SIZE GEP2013

► ACCESSORIES

► INCLUDED IN DELIVERY

6 [piece]
Centering Disc
390677

► YOU CAN FIND CONFIGURATION EXAMPLES ON PAGE 32 / 33

www.zimmer-group.com Data, Drawings, 3-D Models, Operating Instructions
**CONNECTIONS / OTHER**

- **KAG500IL**
  - Plug-in connector straight
  - 5 m - plug, socket M12

- **AP2013**
  - Adapter plate

- **SCM-C-00-00-A**
  - Smart Communication Module

**SENSORS**

- **MFS01-S-KHC-P1-PNP**
  - Magnetic field sensor angled, cable 0.3 m - M8 connector

- **MFS02-S-KHC-P1-PNP**
  - Magnetic field sensor straight, cable 0.3 m - M8 connector

- **MFS01-S-KHC-P2-PNP**
  - 2-point sensor angled, cable 0.3 m - M8 connector

- **MFS02-S-KHC-P2-PNP**
  - 2-point sensor straight, cable 0.3 m - M8 connector

**CONNECTIONS / OTHER**

- **KAG500**
  - Plug-in connector Straight Cable 5m - Socket M8 (female)

- **KAG500B4**
  - Plug-in connector Straight Cable 5m - Socket M8 (female)

- **S8-G-3**
  - Plug-in connector customizable Straight - Connector M8

- **S8-G-4**
  - Plug-in connector customizable Straight - Connector M8

- **AP2013**
  - Adapter plate

**CONNECTIONS / OTHER**

- **KAG500B5**
  - Plug-in connector Straight Cable 5m - Socket M8 (female)

- **AP2013**
  - Adapter plate
# 2-JAW PARALLEL GRIPPERS
## INSTALLATION SIZE GEP2016

### PRODUCT SPECIFICATIONS

#### Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length.

#### Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.

| Mr [Nm] | 28 |
| Mx [Nm] | 28 |
| My [Nm] | 20 |
| Fa [N]  | 450 |

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Order no.</th>
<th>GEP2016IL-00-A</th>
<th>GEP2016IO-00-A</th>
<th>GEP2016IO-05-A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Integrated position sensing</td>
<td>Using process data</td>
<td>No</td>
<td>Digital I/O</td>
</tr>
<tr>
<td>Stroke per jaw [mm]</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Gripping force safety device</td>
<td>mechanical</td>
<td>mechanical</td>
<td>mechanical</td>
</tr>
<tr>
<td>Control time [s]</td>
<td>0.055</td>
<td>0.055</td>
<td>0.055</td>
</tr>
<tr>
<td>Dead weight of mounted gripper finger max. [kg]</td>
<td>0.21</td>
<td>0.21</td>
<td>0.21</td>
</tr>
<tr>
<td>Length of the gripper fingers max. [mm]</td>
<td>120</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>Repetition accuracy +/- [mm]</td>
<td>0.02</td>
<td>0.02</td>
<td>0.02</td>
</tr>
<tr>
<td>Operating temperature [°C]</td>
<td>+5 ... +60</td>
<td>+5 ... +60</td>
<td>+5 ... +60</td>
</tr>
<tr>
<td>Voltage [V]</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Current consumption max. [A]</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Minimum positioning path per jaw [mm]</td>
<td>IP40</td>
<td>IP40</td>
<td>IP40</td>
</tr>
<tr>
<td>Protection to IEC 60529</td>
<td>0.9</td>
<td>0.9</td>
<td>0.9</td>
</tr>
<tr>
<td>Weight [kg]</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TECHNICAL DATA OF THE FORCE LEVELS

#### Level 1

<table>
<thead>
<tr>
<th>Order no.</th>
<th>GEP2016IL-00-A</th>
<th>GEP2016IO-00-A</th>
<th>GEP2016IO-05-A</th>
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</thead>
<tbody>
<tr>
<td>Gripping force [N]</td>
<td>125</td>
<td>125</td>
<td>125</td>
</tr>
<tr>
<td>Closing time / Opening time [s]</td>
<td>0.44 / 0.44</td>
<td>0.44 / 0.44</td>
<td>0.44 / 0.44</td>
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#### Level 2

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<th>GEP2016IO-00-A</th>
<th>GEP2016IO-05-A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gripping force [N]</td>
<td>250</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>Closing time / Opening time [s]</td>
<td>0.39 / 0.39</td>
<td>0.39 / 0.39</td>
<td>0.39 / 0.39</td>
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</tbody>
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#### Level 3

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<th>GEP2016IO-00-A</th>
<th>GEP2016IO-05-A</th>
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</thead>
<tbody>
<tr>
<td>Gripping force [N]</td>
<td>375</td>
<td>375</td>
<td>375</td>
</tr>
<tr>
<td>Closing time / Opening time [s]</td>
<td>0.35 / 0.35</td>
<td>0.35 / 0.35</td>
<td>0.35 / 0.35</td>
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#### Level 4

<table>
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<th>GEP2016IL-00-A</th>
<th>GEP2016IO-00-A</th>
<th>GEP2016IO-05-A</th>
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</thead>
<tbody>
<tr>
<td>Gripping force [N]</td>
<td>500</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>Closing time / Opening time [s]</td>
<td>0.3 / 0.3</td>
<td>0.3 / 0.3</td>
<td>0.3 / 0.3</td>
</tr>
</tbody>
</table>
1. Gripper attachment
2. Energy supply (IO-Link (M12, 5-pole)
3. Fixing for gripper finger
4. Integrated slot for magnetic field sensor
5. Energy supply (M8, 4-pole)
6. Energy supply (M8, 5-pole)
7. Force level setting
8. Gripper mounting clamp
2-JAW PARALLEL GRIPPERS
INSTALLATION SIZE GEP2016

► ACCESORIES

► INCLUDED IN DELIVERY

6 [piece]
Centering Disc
343453

► YOU CAN FIND CONFIGURATION EXAMPLES ON PAGE 32 / 33
RECOMMENDED ACCESSORY GEP2016IL-00-A

CONNECTIONS / OTHER

KAG500IL
Plug-in connector straight 5 m - plug, socket M12

AP2016
Adapter plate

SCM-C-00-00-A
Smart Communication Module

RECOMMENDED ACCESSORY GEP2016IO-00-A

SENSORS

MFS01-S-KHC-P1-PNP
Magnetic field sensor angled, cable 0.3 m - M8 connector

MFS02-S-KHC-P1-PNP
Magnetic field sensor straight, cable 0.3 m - M8 connector

MFS01-S-KHC-P2-PNP
2-point sensor angled, cable 0.3 m - M8 connector

MFS02-S-KHC-P2-PNP
2-point sensor straight, cable 0.3 m - M8 connector

CONNECTIONS / OTHER

KAG500
Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500B4
Plug-in connector Straight Cable 5m - Socket M8 (female)

S8-G-3
Plug-in connector customizable Straight - Connector M8

S8-G-4
Plug-in connector customizable Straight - Connector M8

AP2016
Adapter plate

RECOMMENDED ACCESSORY GEP2016IO-05-A

CONNECTIONS / OTHER

KAG500B5
Plug-in connector Straight Cable 5m - Socket M8 (female)

AP2016
Adapter plate
GEP2000IL (IO-LINK) WIRING TO CONTROL CABINET (BECKHOFF)

- IO-Link connection cable 5 m M12 connecting cable 5x0.34 (max. cable length 10 m) Order No. CSTE00829
- IO-Link master clamp Beckhoff
- Control system Beckhoff

TERMINAL STRIP

- 1-2 grippers* 24V 5A power supply unit with boost Phoenix Contact Order No. 2866750
- 3-4 grippers* 24V 10A power supply unit with boost Phoenix Contact Order No. 2866763
*Depending on max. power consumption of the actuator

GEP2000IL (IO-LINK) WIRING TO CONTROL CABINET (SIEMENS)

- IO-Link connection cable 5 m M12 connecting cable 5x0.34 (max. cable length 10 m) Order No. CSTE00829
- IO-Link master clamp Siemens CM 4xIO-Link
- Control system e.g. Siemens ET200SP

TERMINAL STRIP

- 1-2 grippers* 24V 5A power supply unit with boost Phoenix Contact Order No. 2866750
- 3-4 grippers* 24V 10A power supply unit with boost Phoenix Contact Order No. 2866763
*Depending on max. power consumption of the actuator

GEP2000IL (IO-LINK) WIRING TO IO-LINK MASTER IP67 (BECKHOFF)

- IO-Link connection cable 5 m M12 connecting cable 5x0.34 (max. cable length 10 m) Order No. KAG500IL
- Field bus EtherCAT
- Control system Beckhoff

TERMINAL STRIP

- 1-2 grippers 24V 5A power supply unit with boost Phoenix Contact Order No. 2866750
- 3-4 grippers 24V 10A power supply unit with boost Phoenix Contact Order No. 2866763

SECURED CONFIGURATION EXAMPLES
GEP2000 SERIES
**GEP2000IL (IO-LINK) WIRING TO IO-LINK MASTER IP67 (SIEMENS)**

- IO-Link connection cable
- 5 m M12-connecting cable 5x0.34 (max. cable length 10 m)
- Order No. KAG500IL
- Field bus PROFINET
- 24V master supply
- IO-Link master Port class B Siemens
- 1-2 grippers 24V 5A power supply unit with boost Phoenix Contact Order No. 2866750
- 3-4 grippers 24V 10A power supply unit with boost Phoenix Contact Order No. 2866763

**GEP2000IO-00 (DIGITAL IO) WIRING TO CONTROL CABINET**

- Connecting cable
- 5 m M8-connecting cable 4x0.34 (max. cable length 10 m)
- Order No. KAG500B4
- Terminal strip
- DIO
- Control system Beckhoff / Siemens
- 1-2 grippers 24V 5A power supply unit with boost Phoenix Contact Order No. 2866750
- 3-4 grippers 24V 10A power supply unit with boost Phoenix Contact Order No. 2866763

**GEP2000IO-05 (DIGITAL IO / ANALOG) WIRING TO CONTROL CABINET**

- Connecting cable
- 5 m M8 connecting cable 5x0.34 (max. cable length 10 m)
- Order No. KAG500B5
- Terminal strip
- DIO / analog
- Control system Beckhoff / Siemens
- 1-2 grippers 24V 5A power supply unit with boost Phoenix Contact Order No. 2866750
- 3-4 grippers 24V 10A power supply unit with boost Phoenix Contact Order No. 2866763

Data, Drawings, 3-D Models, Operating Instructions ◄ www.zimmer-group.com
IO-LINK MEETS DIGITAL I/O
SMART COMMUNICATION MODULE

IO-Link meets digital I/O

The Smart Communication Module (SCM) is a master gateway that is suitable for all IO-Link components. With its two channels, the SCM can control two devices and on a functional level, offers the direct implementation of IO-Link to digital I/O. The module thus makes it possible to integrate IO-Link devices into a digital infrastructure and utilize almost the full extended range of functions of the IO-Link device.

PRODUCT ADVANTAGES

► Translates IO-Link to digital inputs and outputs (digital I/O) and from digital I/O to IO-Link
► Easy control of intelligent IO-Link grippers via 24 V digital I/O
► Configuration and training take place using the corresponding intuitive guideZ software
► Can be used with one or two grippers depending on the flexibility required
► Up to 15 different workpieces can be trained for one gripper

BENEFITS IN DETAIL

1 Status
   - Status display of SCM and IO-Link device
2 Ethernet RJ45
   - Temporary connection for gripper configuration
3 Digital input
   - Digital inputs for controlling the gripper actuators
4 IO-Link / Device 1
   - Gripper module 1 connection
5 Digital output
   - Digital outputs for monitoring the gripper sensors
6 IO-Link / Device 2
   - Gripper module 2 connection
7 Power supply
   - Voltage supply SCM and gripper

Technical Data

Order no. SCM-C-00-00-A

| Digital I/O | PNP | 2 |
| Logic supply peak current [A] | 12 |
| Operating temperature [°C] | Ethernet RJ45 |
| Protection to IEC 60529 | 35 mm top-hat rail |
| Weight [kg] | 24 |

www.zimmer-group.com
Configuration and operation

Up to two Zimmer IO-Link devices can be connected to one Smart Communication Module. The digital inputs and outputs are wired directly to the robot controller or PLC. Simple digital control enables bidirectional communication. To configure the gripper parameters, a temporary network connection is established to a commercially available PC.

As soon as the parameters have been configured intuitively, this connection is no longer necessary. Next, the handling unit is automatically controlled directly via robot controller or PLC.

Connection

- IO-Link gripper
- Digital I/Os on the robot control system/PLC
- Power supply

Configuration

Temporary network connection via PC for use of the guideZ, expertZ and monitorZ software

FURTHER INFORMATION IS AVAILABLE ONLINE

All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.
Customer number

Company

Contact

☑ Mr. ☐ Mrs.

☐ Request ☐ Desired date

☐ Order

☐ Parallel grippers ☐ Concentric grippers ☐ Angular Grippers

☐ Other / if yes, which type

Drive

☐ Pneumatic ☐ Electrical ☐ Hydraulic

Operating pressure [bar] Voltage [V]

Required stroke

Per jaw [mm] or Total stroke [mm]

Gripper finger length

Gripper top edge to force application point [mm]

Ambient conditions

☐ Clean / Dry ☐ Small amount of swarf / Coolant overspray ☐ Large amount of swarf / Coolant under pressure / Grinding agent

☐ Chemical substances / if yes, which

Temperature [°C] Cycles per minute

Required force

Gripping force [N] or Workpiece weight kg ☐ g ☐

Gripping type

☐ Internal gripping ☐ External gripping

☐ Frictional fit ☐ Form fit

Prism angle [°] Friction coefficient Axis acceleration [m/s²]

Self-locking

☐ Not required ☐ In closing ☐ In opening ☐ Pressure safety valve

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### Desired accessories

- [ ] Inductive sensor
- [ ] Magnetic field sensor
- [ ] With Cable
- [ ] Plugable
- [ ] Separate cable / if yes, how long [m]
- [ ] Pressure safety valve
- [ ] Pneumatic fittings / if yes, which
  - [ ] Straight fitting
  - [ ] Angled fitting
  - [ ] Air flow control valve

### Notes / Comments


### Editor / Date


### Attachment

- [ ] Sketch
- [ ] 3D model
- [ ] Others

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STANDARDS
DECLARATION OF INCORPORATION IN TERMS OF THE EC DIRECTIVE 2006/42/EC ON MACHINERY (ANNEX II 1 B)

We hereby declare that our elements meet the following basic requirements of the Machinery Directive 2006/42/EC as an incomplete machine

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.1.5.3, No.1.5.4, No.1.5.8., No.1.6.4, No.1.7.1, No.1.7.3, No.1.7.4.

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 the incomplete machine's special documents via our documentation department should they have reason to request them. The incomplete machine may only be commissioned if the machine or system in which the incomplete machine is to be installed has been determined to satisfy the conditions of the Machinery Directive 2006/42/EC and the EC Declaration of Conformity has been produced in accordance with Annex II A.