# 2-JAW ANGULAR GRIPPERS
## SERIES GG1000

### ► PRODUCT ADVANTAGES



**"The strong"**

► **High gripping force**

Using the high gripping force, you can safely handle even the heaviest workpieces

► **High moment load**

The generously scaled angular gear box provides the highest possible durability for your application

► **Failure-free continuous operation**

Our uncompromising "Made in Germany" quality guarantees up to 10 million maintenance-free cycles

### ► SERIES CHARACTERISTICS

| Installation size | Version | |
|---|---|---|
| **GG1XXX** | **NC** | **FNC** |
| Gripper jaws with mounting possibility on the side | | ● |
| Spring closing C | ● | ● |
| 10 million maintenance-free cycles (max.) | ● | ● |
| Inductive sensor | ● | ● |
| Magnetic field sensor | ● | ● |
| Purged air | ● | ● |
| IP40 | ● | ● |

## ► BENEFITS IN DETAIL
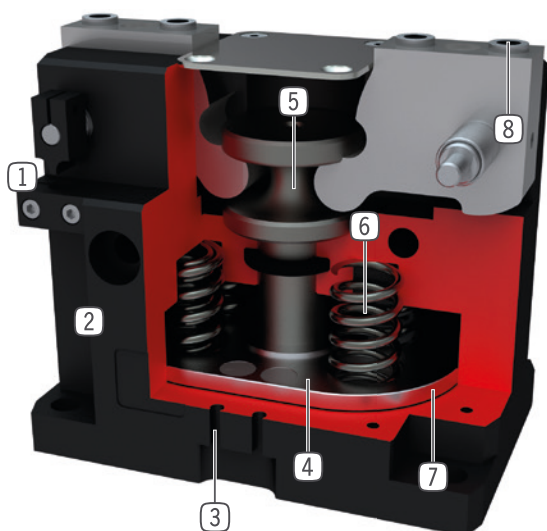


1. **Cam-switch and mounting block**
   - for position sensing
2. **Robust, lightweight housing**
   - Hard-coated aluminum alloy
3. **Sensing slot**
   - groove for positioning of the magnetic field sensor
4. **Permanent magnet**
   - sensing of the piston setting position via magnetic field sensors
5. **Positively driven lever mechanism**
   - synchronized the movement of the gripper jaws
6. **Integrated gripping force safety device**
   - spring integrated into cylinder as energy storage
7. **Drive**
   - double-acting pneumatic cylinder
8. **Removable centering sleeves**
   - quick and economical positioning of the gripper fingers

## ► TECHNICAL DATA

| Installation size | Stroke | Gripping force | Weight | IP class |
|---|---|---|---|---|
| | [°] | [N] | [kg] | |
| GG1065 | 20 | 2910 - 4160 | 1,3 - 1,4 | IP40 |
| GG1085 | 20 | 7120 - 9670 | 2,8 - 3,2 | IP40 |
| GG1110 | 20 | 18665 - 23240 | 6,3 - 6,7 | IP40 |
| GG1140 | 20 | 29110 - 36470 | 12,4 - 13 | IP40 |

## ► 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.
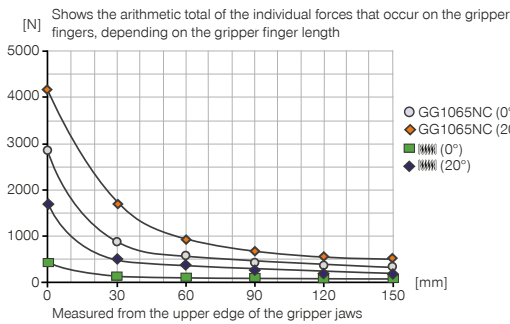
# 2-JAW ANGULAR GRIPPERS
## INSTALLATION SIZE GG1065

▶ **PRODUCT SPECIFICATIONS**

▶ **Gripping force diagram**

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

- ○ GG1065NC (0°)
- ◆ GG1065NC (20°)
- ■ ▥▥▥ (0°)
- ◆ ▥▥▥ (20°)

[mm]
Measured from the upper edge of the gripper jaws

▶ **Forces and moments**

Displays static forces and moments that can also have an effect, besides the gripping force.
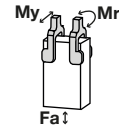
| | |
|---|---|
| Mr [Nm] | 20 |
| My [Nm] | 20 |
| Fa [N] | 330 |

▶ **INCLUDED IN DELIVERY**

4 [piece]
Centering Disc
**DST40800**

▶ **RECOMMENDED ACCESSORIES**

### ENERGY SUPPLY

**GVM5**
Straight Fittings - Quick Connect Style

### SENSORS

**KB8-43**
Mounting block

**KHA1065-8**
Alternate proximity bracket

**NJ8-E2S**
Inductive proximity switch - Connector M8

**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

### SENSORS

**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

**HES0009**
Stroke adjustment screw

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

**KAW500**
Plug-in connector Angled Cable 5m - Socket M8 (female)

| Order no. | GG1065NC | GG1065FNC |
|---|---|---|
| Stroke per jaw [°] | 20 | 20 |
| Gripping moment in closing max. [Nm] | 39 | 39 |
| Gripping moment secured by spring min. [Nm] | 6.5 | 6.5 |
| Gripping force in closing at 0° [N] | 2910 | 2910 |
| Gripping force in closing max. (at 20°) [N] | 4160 | 4160 |
| Gripping force secured by spring (at 0°) [N] | 490 | 490 |
| Gripping force secured by spring (at 20°) [N] | 1745 | 1745 |
| Closing time [s] | 0.04 | 0.04 |
| Opening time [s] | 0.07 | 0.07 |
| Repetition accuracy +/- [mm] | 0.05 | 0.05 |
| Operating pressure min. [bar] | 4 | 4 |
| Operating pressure max. [bar] | 8 | 8 |
| Nominal operating pressure [bar] | 6 | 6 |
| Operating temperature min. [°C] | 5 | 5 |
| Operating temperature max. [°C] | +80 | +80 |
| Air volume per cycle [cm³] | 68 | 68 |
| Protection to IEC 60529 | IP40 | IP40 |
| Weight [kg] | 1.3 | 1.4 |



① Gripper attachment
② Energy supply
③ Fixing for gripper finger
⑥ Integrated slot for magnetic field sensor
⑦ Fixing for mounting block
⑧ Fixing clamping bracket (KHA)
⑲ Air purge connection option
㉟ Mounting posibillity for stroke adjustment screwe
㊲ Mounting posibillity for cam switch
㊳ Adapter
㊴ Gripper
Ⓐ Air connection (close)
Ⓑ Air connection (open)
Ⓐ` Air connection, alternative (close)
Ⓑ` Air connection, alternative (open)

Hoseless air feed-through