

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

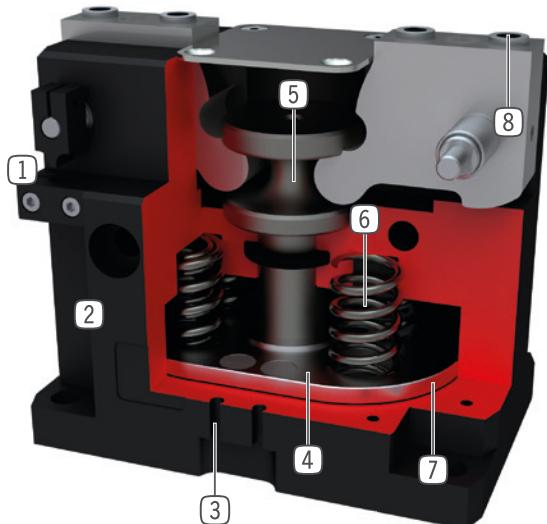
Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free cycles

► 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



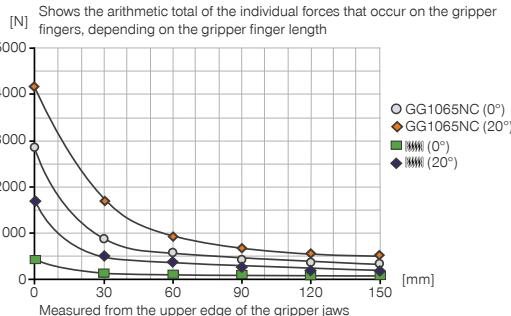
All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

2-JAW ANGULAR GRIPPERS INSTALLATION SIZE GG1065

► PRODUCT SPECIFICATIONS

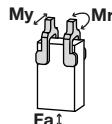


► Gripping force diagram



► 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



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



SENSORS



KB8-43
Mounting block



KHA1065-8
Alternate proximity bracket



CONNECTIONS / OTHER



HES0009
Stroke adjustment screw



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



NJ8-E2S
Inductive proximity switch, 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



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

Order no.	Technical data	
	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 [cm ³]	68	68
Protection to IEC 60529	IP40	IP40
Weight [kg]	1.3	1.4

