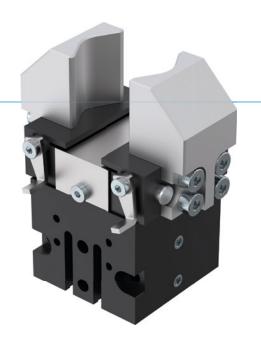
# 2-JAW PARALLEL GRIPPERS **SERIES GP**

# PRODUCT ADVANTAGES



# "The enduring"

# Proven technology

We have more than 20 years of proven reliability, which ensures uninterrupted production for you

# Very short cycle times

Low-friction circular guides enable very short cycle times and, therefore, high component output for your machine

## ► Failure-free continuous operation

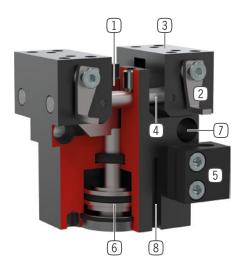
Our uncompromising "Made in Germany" quality guarantees up to 10 million maintenance-free cycles

# > SERIES CHARACTERISTICS

Installation size	Version	
GPXXX	-C/D	S-C/D
Spring closing C		•
High-strength S		•
10 million maintenance-free cycles (max.)	•	•
+ think the sensor	•	•
+ Magnetic field sensor	•	•
IP 30 IP30	•	•



# **BENEFITS IN DETAIL**



# 1 Wedge hook mechanism

- synchronized the movement of the gripper jaws
- high force transfer

## 2 Adjustable switch cam

- for position sensing

## 3 Gripper jaw

- individual gripper finger mounting

## 4 Roller slide

- for low wear movement sequence

## 5 Mounting block

- mounting for inductive proximity switch

## 6 Drive

- double-acting pneumatic cylinder

## 7 Mounting and positioning

- mounting possible from several sides for versatile positioning

# 8 Sensing slot

- mounting and positioning of magnetic field sensors

# ► TECHNICAL DATA

	Stroke per jaw	Gripping force	Weight	IP class
Installation size	[mm]	[N]	[kg]	
GP12	3	8,4	0.033	IP30
GP19	4	36	0.081	IP30
GP30	5	94	0.15	IP30
GP45	5	118 - 190	0.255 - 0.3	IP30
GP75	10	220 - 275	0.45 - 0.5	IP30
GP100	8 - 13	450 - 5250	1.3	IP30

# ► 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.

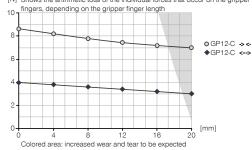
# 2-JAW PARALLEL GRIPPERS **INSTALLATION SIZE GP12**

# PRODUCT SPECIFICATIONS



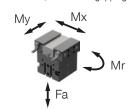
## **Gripping force diagram**

[N] Shows the arithmetic total of the individual forces that occur on the gripper



#### Forces and moments

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



Mr [Nm]	0.15
Mx [Nm]	0.15
My [Nm]	0.15
Fa [N]	15

# RECOMMENDED ACCESSORIES



# **GRIPPING COMPONENTS**



UB12

Universal jaw set aluminium



# **SENSORS**



#### NJ3-E2SK

Inductive Proximity Switch Cable 0,3 m - Connector M8





# **ENERGY SUPPLY**



#### MFS01-S-KHC-P1-PNP

Magnetic field sensor angled, cable 0.3 m - M8  $\,$ connector





#### GVM3

Straight Fittings - Barb Style Connection



## MFS02-S-KHC-P1-PNP

Magnetic field sensor straight, cable 0.3 m - M8 connector





## WVM3

Angled Fittings - Barb Style Connection



#### MFS01-S-KHC-P2-PNP

2-point sensor angled, cable 0.3 m - M8 connector





#### DEV04

Quick Exhaust Valve



#### MFS02-S-KHC-P2-PNP

2-point sensor straight, cable 0.3 m - M8 connector





## DSV1-8E

Pressure safety valve with quick exhaust



#### MFS02-S-KHC-IL

**CONNECTIONS / OTHER** 

Position sensor straight, cable 0.3 m - connector





## **SENSORS**



## КВЗМ

Mounting block



## **KAG500**

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





## NJ3-E2

Inductive proximity switch - Cable 5 m



#### ZE10H7X6

Centering Disc

	► Technical data
Order no.	GP12-C
Stroke per jaw [mm]	3
Gripping force in closing [N]	8.4
Gripping force in opening [N]	4
Gripping force secured by spring min. [N]	
Closing time [s]	0.02
Opening time [s]	0.02
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Nominal operating pressure [bar]	6
Operating temperature min. [°C]	+5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	0.4
Protection to IEC 60529	IP30
Weight [kg]	0.034

