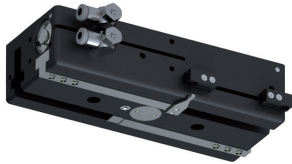


# 2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6180

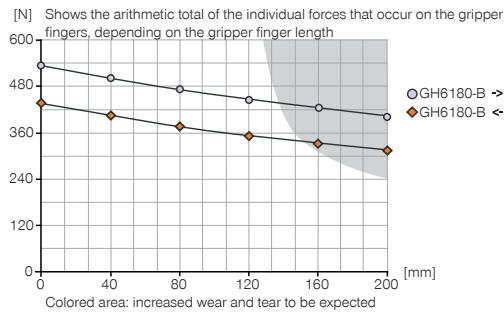
1

Installation size GH6180 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

## ▶ PRODUCT SPECIFICATIONS

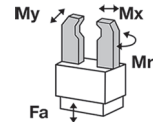


### ▶ Gripping force diagram



### ▶ Forces and moments

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



Mr [Nm]	120
Mx [Nm]	140
My [Nm]	90
Fa [N]	1500

## ▶ INCLUDED IN DELIVERY



Mounting block

KB8-27



Centering Disc

DST60800



Flow Control Valves - with Swivel joint

DRV1-8X8

## ▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6100-B



Alternate proximity bracket

KHA6180-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



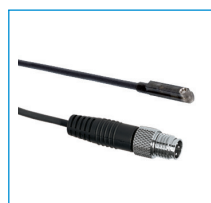
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



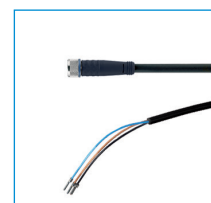
Magnetic field sensor Straight Cable 5 m

MFS204KHC



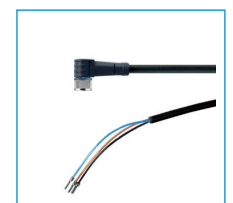
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500

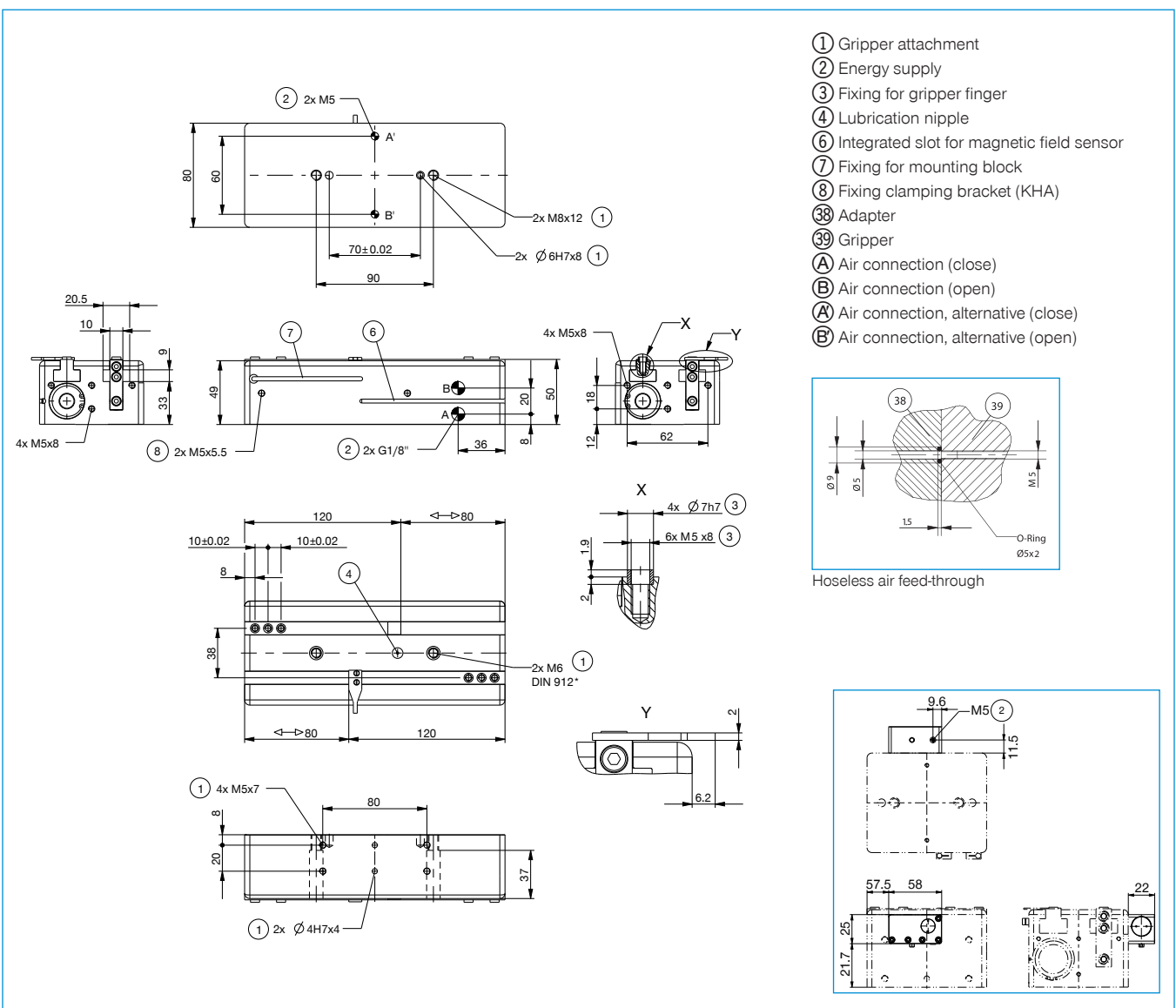


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

Order no.	► Technical Data*	
	GH6180-B	GHK6180
Stroke per jaw [mm]	80	80
Gripping force in closing [N]	530	530
Gripping force in opening [N]	430	430
Retention force in case of drop in pressure [N]		300
Closing time [s]	0.35	0.35
Opening time [s]	0.35	0.35
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	145	145
Weight [kg]	2.2	2.4

\*All data measured at 6 bar  
GHK series, see page 221

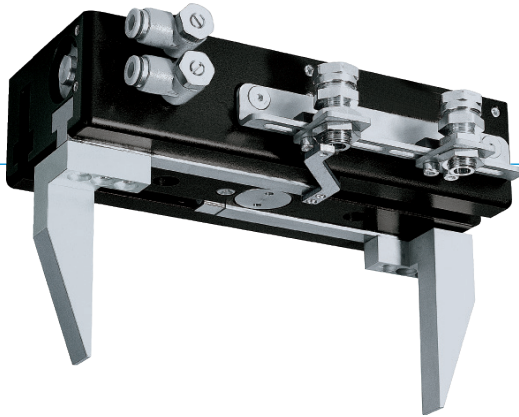


# 2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES GH6000

1

Series GH6000 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

## ▶ PRODUCT ADVANTAGES



### “The robust”

▶ **Gripper jaws may be up to 25% longer in comparison to the benchmark**

The highest force and torque measurement enables flexible for maximum dynamics

▶ **Over 30% more powerful than the benchmark**

Optimisation of weight and force reduces your application costs since all components can have a smaller scale

▶ **Failure-free continuous operation**

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

## ▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products welcome the challenge!**

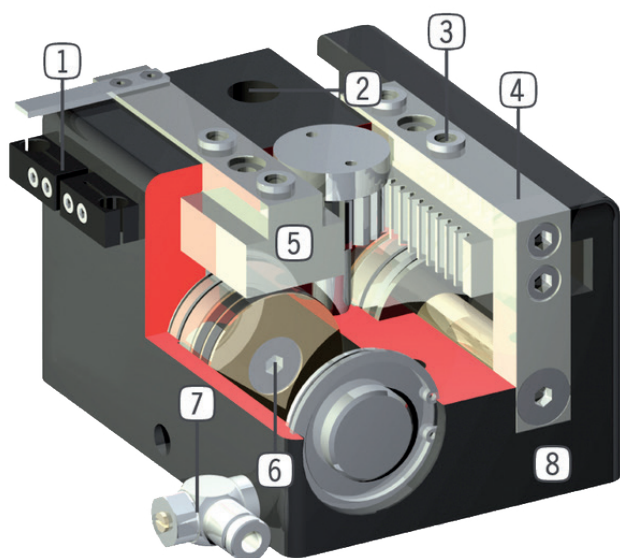
Extreme conditions, all over the world—our tried and tested components and systems give you endless possibilities.

Find the best product for your specific use:

[www.zimmer-group.de](http://www.zimmer-group.de)



## ► BENEFITS IN DETAIL



- ① **Mounting block**  
- mounting for inductive proximity switch
- ② **Mounting and positioning**  
- mounting possible from several sides for versatile positioning
- ③ **Removable centering sleeves**  
- quick and economical positioning of the gripper fingers
- ④ **Gripper jaw**  
- individual gripper finger mounting
- ⑤ **Precise long T-Slot guides**  
- high forces and moments capacity
- ⑥ **Drive**  
- two double-acting pneumatic cylinders  
- synchronized by gearwheel
- ⑦ **Energy supply**  
- possible from several sides  
- CAUTION: always operate long stroke gripper with supplied exhaust air flow control valve (speed regulation)
- ⑧ **Robust, lightweight housing**  
- Hard-coated aluminum alloy

## ► SERIES CHARACTERISTICS



Number of installation sizes	5
Stroke per jaw	20 mm - 200 mm
Gripping force	120 N - 3400 N
Weight	0,3 kg - 23,8 kg
AP class	3



10 million maintenance-free cycles (max.)



Inductive sensor



IP40



Magnetic field sensor