

MF System Grippers





MORALI

MF System Grippers



The absolutely smallest gripper on the market is the

Micro

the smallest of its kind, weighing a mere 8 g!



Morali Produktionstechnik is probably one of the world's biggest manufacturers of vacuum cups. To supply the booming automation market, Morali has meanwhile included a system of grippers among its line of products. These were developed with the assistance of experts relying on over 15 years of practical experience.

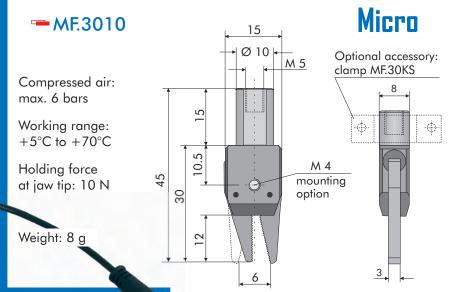
The new family of grippers has been designed not only for the plastics industry (e.g. gating grippers), but for all aspects of end-of-arm tooling. In keeping with their size, the four types of grippers are designated:

Micro - Mini - Midi - Maxi

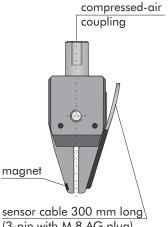
Benefits of our dedicated grippers

- Four sizes, logically stepped.
- Optional versions with magnetic-sensor interrogation.
- Standard clamping dia. of 10 mm, suitable for all common gripper systems.
- Additional mounting option on gripper body, optionally with clamp on 10 mm clamping dia.
- Uniform compressed-air coupling with M 5 female thread.
- Perfectly closing gripper jaws.
- Sensor interrogation from parts as small as 1.0 mm dia.
- Hard-Coat® for optimum wear protection.
- Extensive spare-parts kit for all gripper sizes.
- Extension cables for magnetic sensor 2,5 5 10 m long.

Custom gripper jaws on request!







(3-pin with M 8 AG plug)

Spare-parts kit:

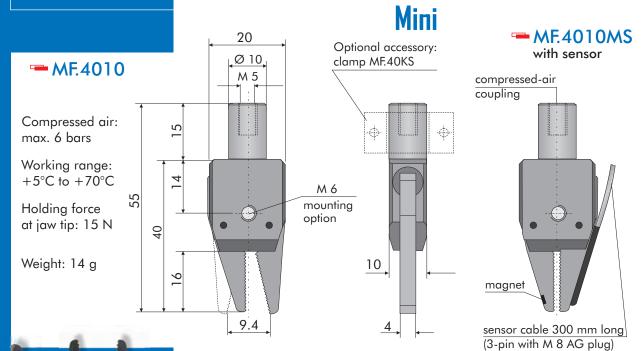
Item	Designation	Art. No.
1	2 Gripper jaws	MF.30GB
2	1 Magnetic jaw	MF.30MB
3	1 Sensor jaw with cable	MF.30SB

ltem	Designation	Art. N0.
4	1 Compression spring	MF.30DF
5	2 Pistons with gaskets	MF.30KD
6	2 Dowel pins	MF.30PS

Note: Items 1-5 including pins



MORALI MF System Grippers

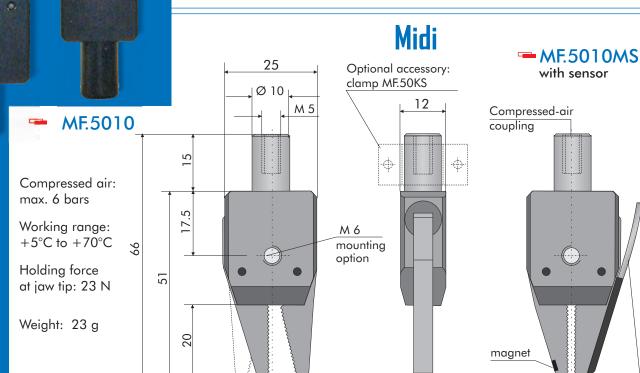




Item	Designation	Art. No.
1	2 Gripper jaws	MF.40GB
2	1 Magnetic jaw	MF.40MB
3	1 Sensor jaw with cable	MF.40SB

Art. No. Designation 1 Compression spring MF.40DF 5 2 Pistons with gaskets MF.40KD 2 Dowel pins MF.40PS

Note: Items 1-5 including dowel pins



Spare-parts kit:

ltem	Designation	Art. No.
1	2 Gripper jaws	MF.50GB
2	1 Magnetic jaw	MF.50MB
3	1 Sensor jaw with cable	MF.50SB

Item	Designation	Art. No.
4	1 Compression spring	MF.50DF
5	2 Pistons with gaskets	MF.50KD
6	2 Dowel pins	MF.50PS

sensor cable 300 mm long

(3-pin with M 8 AG plug)

Note: Items 1-5 including dowel pins

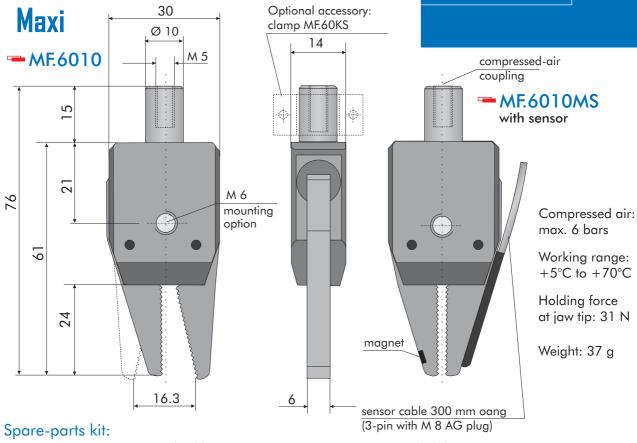
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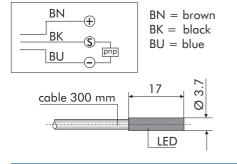
I	tem	Designation	Art. No.
Ī	1	2 Gripper jaws	MF.60GB
	2	1 Magnetic jaw	MF60MB
	3	1 Sensor jaw with cable	MF.60SB

Item	Designation	Art. No.
4	1 Compression spring	MF.60DF
5	2 Pistons with gaskets	MF.60KD
6	2 Dowel pins	MF.60PS

Note:

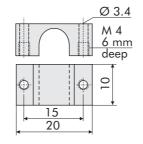
Item 1 - 5 including dowel pins

Wiring diagram: Cylindrical magnetic sensor



Optional accessories: Clamps

Clamps for optional mounting (e.g. on aluminum profiles)



Art. No: MF.30KS MF.40KS MF.50KS

MF.60KS



Specifications for 20°C / 24 VDC

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Operating voltage	1030 V DC
Output	pnp, NO transistor
Current capacity	100 mA, non-short-circuit-proof, with polarity protection
Switching capacity	max. 3 W (30 V, 100 mA)
No-load current	≤ 11 mA
Under tension	≤ 2,0 V
Switching frequency	1000 Hz
Reproducibility	< 0,1 mm
Ambient temperature	-25+70°C
Insulation-voltage resistance	500 V
Protection class	IP 67
Display	yellow LED for output signal
Body material	plastic
Connecting cable	PUR, resistant to welding sparks
Length of cable	300 mm, M 8 AG plug

Optional accessories: Extension cables M 8 IG 2.5 m = MF.VK25 5.0 m = MF.VK50

10 m = MF.VK100



Request for Information

Fax +49 (0)741-17 52 60-29

	Company	Telephon	е	
	Name	Fax		
	Road	e-mail		
	ZIP Code/City	www.		
	Country	Industry:		
	We are interested in the products in Your telephone call Detailed documentation Your visit following appointment by telep Flat vacuum cups Bellows vacu	hone Oval-/rectand		
	Vacuum accessories Vac	cuum lifting cylinders	Dedicated grippers	
	Vacuum generators Vacuum valves, filters, Special vacuum hoses Quick-release couplers		444	4

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MORALI - Line of Products

We make vacuum cups, from mini-batches to large series, with consistently high quality, at reasonable prices.

MORALI GmbH not only has an extensive line of standard products but is also your competent partner for special solutions worldwide.

We also make vacuum cups to customers' specifications, putting our extensive experience and technical expertise at your service.

Vacuum-Cup Materials NBR, natural rubber, silicone, polyurethane, FKM (Viton®), chloroprene rubber, HNBR, EPDM, vinyl, SBR; antistatic suction cups of silicone or NBR

Additional Products

Vacuum Cups - directly from the manufacturer

Based on over 15 years of practical experience in vacuum technology, we supply the following industries with our products:

- Automation/robotics
- Automotive
- CD/DVD
- Printing and paper
- Electronics
- Glass

- Wood/furniture
- Ceramics/porcelain
- Cosmetics
- Plastics
- Foodstuffs/beverages
- Medicine
- Dairy
- Solar
- Special-purpose machinery
- Stone working
- Packaging

Flat Vacuum Cups

from Ø 1 to Ø 1000 mm and larger



Bellows Vacuum Cups

from Ø 4 to Ø 400 mm and larger



Oval-/Rectangular Vacuum Cups from 4 x 2 to 400 x 1000 mm



Vacuum-Cup Accessories

Fittings, rigid or spring-loaded cup levelers, flow valves, plunger valves



Special-Purpose Vacuum Cups

- High-temperature cups (up to +550°C) with felt coating from 25 to 350 mm dia.,
- Detectable vacuum cups for bakery industry
- No marking flat, bellows and oval suction cups from 8 mm dia. (on request).

Vacuum Accessories

We also supply: Vacuum generators, vacuum valves, filter, special vacuum hoses, quick-release fittings

Vacuum Lifting Cylinders

in five different sizes



Dedicated Grippers

(with and without query)



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