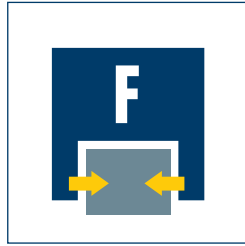


MC-GP/GE

Special Grippers · Miniature Grippers



Weight
0.022 kg .. 0.066 kg
0.78 oz .. 2.33 oz



Gripping force
0.15 N
0.034 lbf

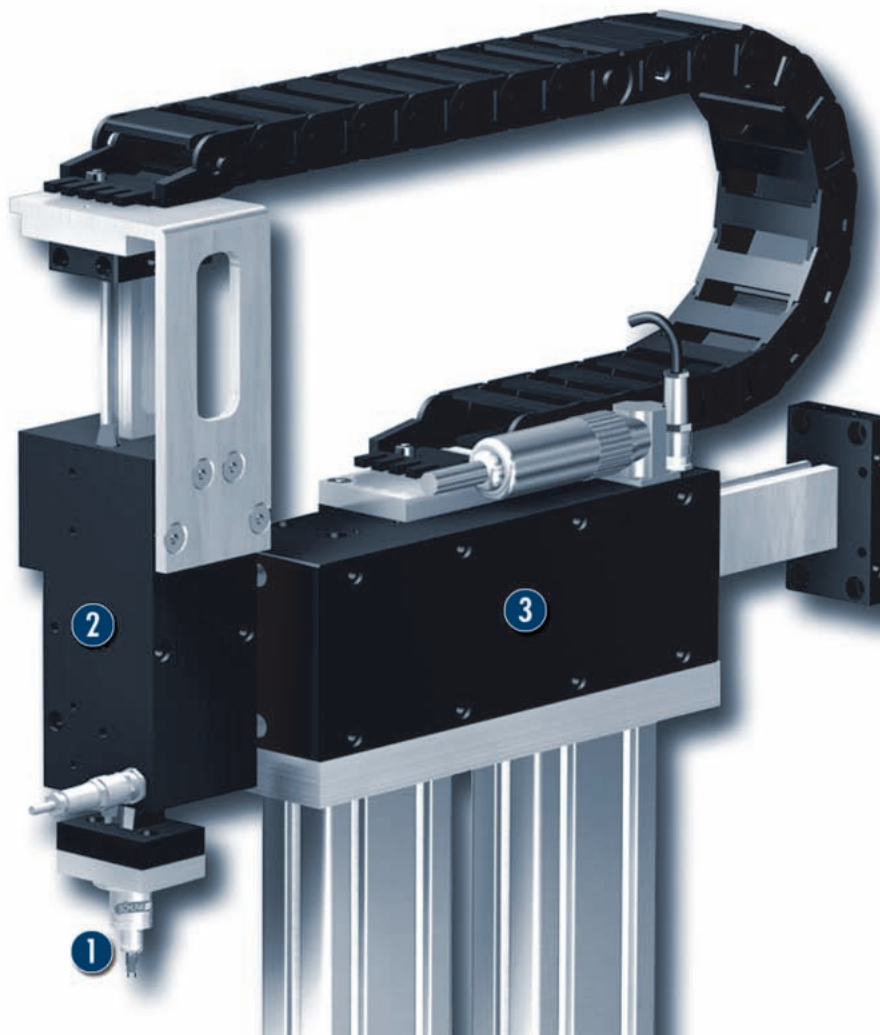


Stroke per finger
2.2 mm
0.087 in



Workpiece weight
0.003 kg
0.11 oz

Application example



Pick & place unit for assembling circuit boards with capacitors

- 1** MC-GE 005 Miniature Centric Gripper
- 2** Servo-electric Short-stroke Module with MLD 50K direct drive
- 3** Servo-electric Linear Axis with MLD 100 direct drive

Miniature Gripper

Single-acting miniature gripper with electric or pneumatic drive and spring return

Area of application

Grips the smallest workpieces in clean to low-soiling environments, such as in assembly lines and laboratories

Your advantages and benefits

Simple, fast drive kinematics

for short cycle times and high cycle frequencies

Integrated stroke adjustment

for optimum adaptation to different workpieces

Flexible fingers

for gripping sensitive or asymmetrical components

Small, compact design

for minimal interfering contours and low weight



General information on the series

Working principle

Single-acting, spring return via fingers

Housing material

Aluminum

Actuation

Electric, 24 VDC, or pneumatic

Warranty

24 months

Scope of delivery

Gripper with mounted finger guard, assembly and operating manual with manufacturer's declaration

Maintenance

Maintenance-free

Accessories

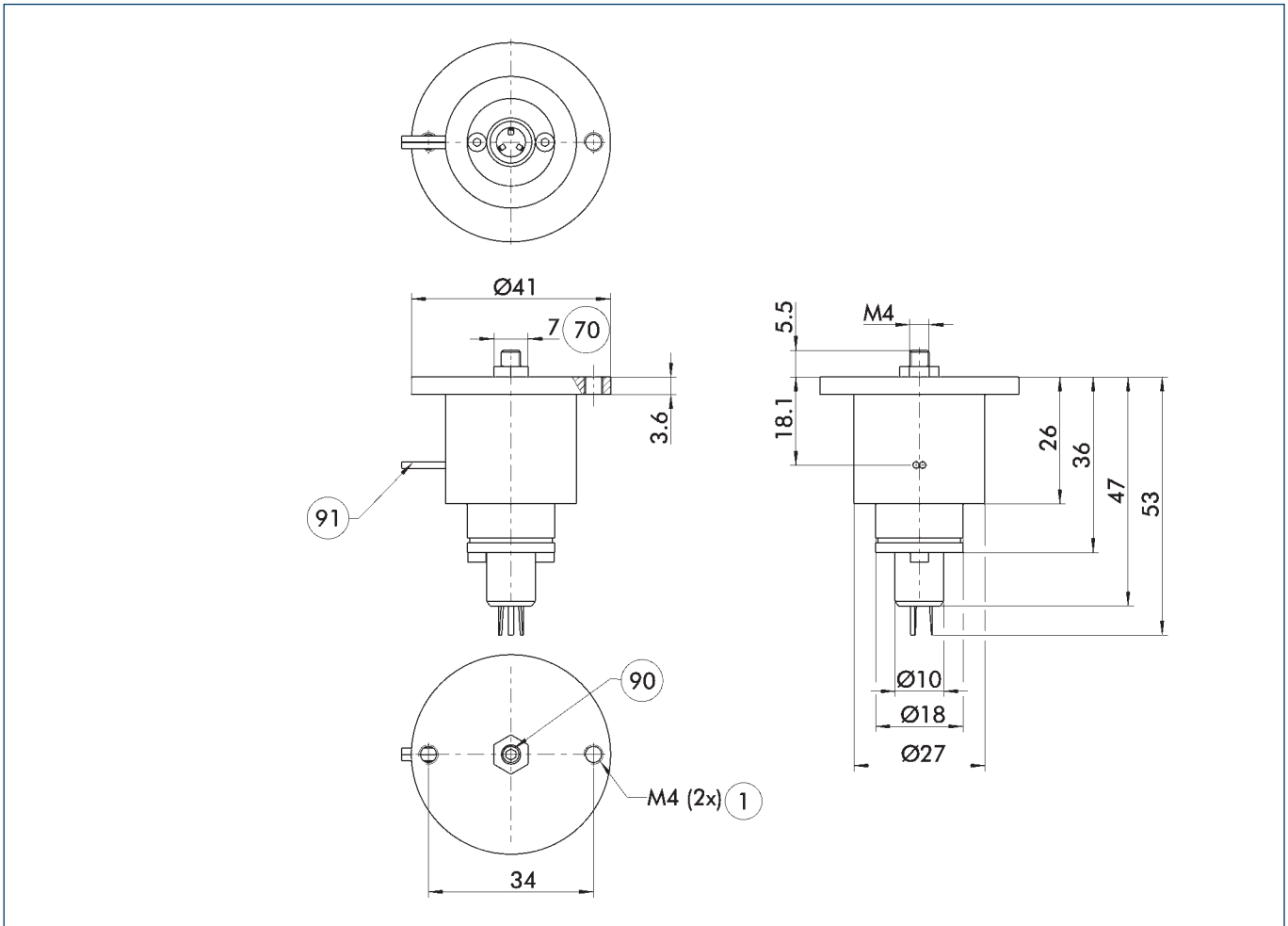
The MC-GE or MC-GP is also available on request as a 2-finger parallel gripper.



Technical data

Description		MC-GE 005
	ID	0305601
Max. stroke per finger	mm [in]	2.2 [0.087]
Gripping force	N [lbf]	0.15 [0.034]
Weight	kg [oz]	0.066 [2.33]
Recommended workpiece weight (max.)	kg [oz]	0.003 [0.11]
Opening time at max. stroke	s	0.04
Closing time at max. stroke	s	0.04
Smallest gripping Ø	mm [in]	0.6 [0.024]
Largest gripping Ø	mm [in]	5.0 [0.197]
Min. ambient temperature	°C [°F]	5.0 [41]
Max. ambient temperature	°C [°F]	55.0 [131]
Repeat accuracy	mm [in]	0.2 [0.0079]
Voltage supply	V	24.0
Nominal power	A	0.2
Maximum power	A	1.0

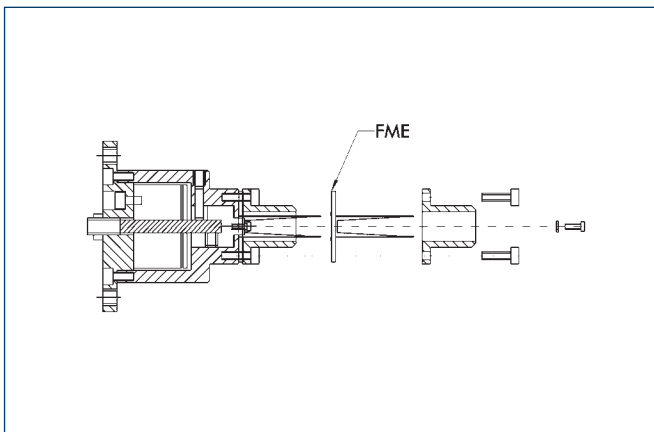
Main views



The drawing shows the gripper in the basic position with open fingers.

- ① Gripper connection
- ⑦ Width across flats
- ⑨ Preset gripper diameter
- ⑨ 2-wire cable, length 200 mm, cross section 2 x 0.08 mm²

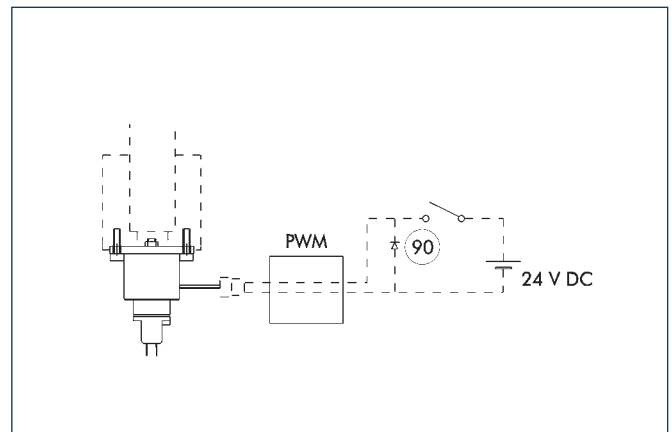
FME finger module



If a finger is damaged, it suffices to simply replace the FME finger module.

Description	ID
FME	0305603

PMW module



- ⑨ Protective diode (provided by customer)

The PMW (pulse-width modulation) module is employed for the purpose of heat reduction with an ON time of > 5 min.

Description	ID
PWM-Modul	0305602