

# MCG Mini Cobot Gripper

Our featherweight! At only 270 grams it is probably the lightest cobot gripper in the world. It lifts up to 5 kilograms and can be flexibly equipped with various suction units.



In the automated packaging of goods for example in e-commerce or when handing of goods, for example in production in small and medium-sized businesses, the weight of the gripper is crucial. Because in addition to the objects to be moved, that determines the size of the robot or cobot to be used.

As a specialist for lightweight, high-performance vacuum grippers, especially for the growing cobot market, Piab has now developed the lightest cobot gripper. With the MCG, customers can maximize the load capacity of even the smallest cobots, reducing investment costs.

This is made possible by its components produced by high-quality, lightweight 3-D printing. The combination of pump unit with integrated COAX® vacuum ejector technology allows

maximum flexibility. This is further enhanced by the new Quick-Click Toolchanger (QCT), which allows customers to change from one gripper type to another in seconds without tools.

Thanks to its round shape, the MCG is very safe.

#### YOUR BENEFITS

- Extremely light - full utilization of cobot capacity
- Quick gripper change with QCT in plug & play design
- Various gripper units for every application

# MCG Mini Cobot Gripper

## Overview

Suction plate with 10mm foam with flow regulation



Suction cup holder 3/8" IG



Suction plate with 13x BX10 suction cups with flow regulation



To cater for any application, the MCG Starter-Kit consists of a pump unit, a 10 mm foam suction pad, a suction pad with 13x BX10 suction cups, and a suction cup holder, as well as three different sized suction cups.

The MCG is equipped with Piab's COAX® Cartridge MINI Si08-2.

### ADVANTAGES OF THE INTEGRATED PIAB VACUUM EJECTOR TECHNOLOGY

- Fast processes thanks to automatic blow-off function
- Easy gripper change thanks to Quick-Click Toolchanger.

For easy connection to any type of cobot, customers can choose between a number of standard ISO adapters.

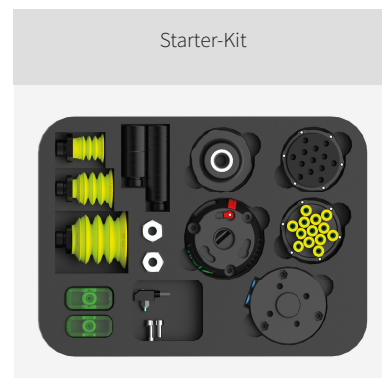
### DIMENSIONS PUMP UNIT WITH INTEGRATED EJECTOR, VACUUM BLOW-OFF VALVE AND TOOL QUICK-CHANGE UNIT

Descripton	Unit	Value
Height	mm [inch]	28 [1.02]
Diameter	mm [inch]	76 [2.99]
Weight including robot adapter	g [Lbs]	270 [0.60]

### POSSIBLE GRIPPER TYPES

Description	Unit	Value	Remarks
Suction plate with 10mm foam with flow regulation	g [Lbs]	35 [0.08]	
Suction cup holder female 3/8" IG -	g [Lbs]	40 [0.09]	Plus the weight of the selected suction cup
Suction plate with 13x BX10 suction cups with flow regulation	g [Lbs]	70 [0.15]	

Starter-Kit



### VACUUM FLOW (NI/S)

Feed pressure	Air consumption	Vacuum flow (NI/s) at different vacuum levels (-kPa)								Max. vacuum
		0	10	20	30	40	50	60	70	
0.5	0.38	0.77	0.61	0.43	0.29	0.23	0.15	0.08	0.01	70
0.6	0.44	0.77	0.67	0.51	0.33	0.23	0.16	0.12	0.08	75