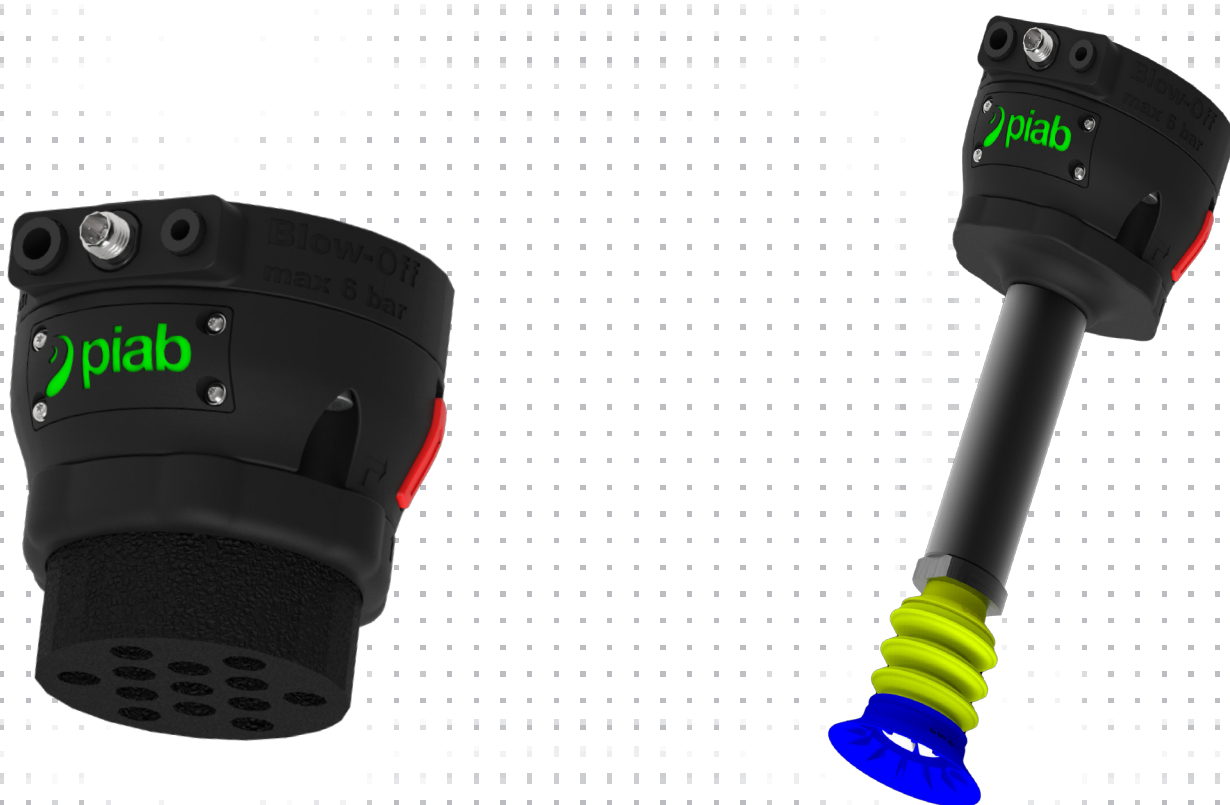


MCG Mini Cobot Gripper

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, or in production in small, medium-sized businesses, the weight of the gripper is crucial. As in addition to the objects being moved, this 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 producing high-quality components with 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), allowing customers to change from one gripper type to another in seconds without tools.

The gripper can be equipped with either a digital switch of -25kPA or an analog sensor of 0 - 10 V. The digital switch is a standardized I/O link version, allowing to exchange data between systems.

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 10 and 20 mm foam with flow reduction



Suction cup holder 3/8" female



Suction plate with 13x BX10 suction cups with flow reduction



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 standard MCG is equipped with Piab's COAX® Cartridge MINI Xi 10-2 but also available with other cartridges.

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]

Pump unit with integrated ejector



POSSIBLE GRIPPER TYPES

Description	Unit	Value
Suction plate with 10mm foam with flow reduction	g [lbs]	35 [0.08]
Suction plate with 20 mm foam with flow reduction	g [lbs]	50 [0.11]
Suction cup holder female 3/8" female	g [lbs]	40 [0.09]
Suction plate with 13x BX10 suction cups with flow reduction	g [lbs]	70 [0.15]

VACUUM FLOW (NI/S)

Pump type	Feed pressure	Air consumption	Vacuum flow (NI/s) [scfm] at different vacuum levels (-kPa) [-inHg]								Max. vacuum
			0 [0]	10 [3]	20 [6]	30 [9]	40 [12]	50 [15]	60 [18]	70 [21]	
Xi 10-2	0.45 [65]	0.42 [0.89]	0.75 [1.59]	0.61 [1.29]	0.45 [0.95]	0.28 [0.59]	0.19 [0.40]	0.15 [0.32]	0.11 [0.23]	0.07 [0.15]	92 [27.2]
	0.5 [73]	0.46 [0.97]	0.75 [1.59]	0.63 [1.33]	0.49 [1.04]	0.33 [0.70]	0.19 [0.40]	0.15 [0.32]	0.11 [0.23]	0.07 [0.15]	94 [27.8]
	0.6 [87]	0.54 [1.14]	0.74 [1.57]	0.63 [1.33]	0.53 [1.12]	0.42 [0.89]	0.30 [0.64]	0.16 [0.34]	0.11 [0.23]	0.04 [0.17]	93 [27.5]
Si 08-2	0.4 [58]	0.31 [0.66]	0.71 [1.50]	0.53 [1.12]	0.34 [0.72]	0.26 [0.55]	0.18 [0.38]	0.09 [0.19]	0.01 [0.02]	-	60 [17.7]
	0.5 [73]	0.38 [0.81]	0.77 [1.63]	0.61 [1.29]	0.43 [0.91]	0.29 [0.61]	0.23 [0.49]	0.15 [0.32]	0.08 [0.17]	0.01 [0.02]	70 [20.7]
	0.6 [87]	0.44 [0.93]	0.77 [1.63]	0.67 [1.42]	0.51 [1.08]	0.33 [0.70]	0.23 [0.49]	0.16 [0.34]	0.12 [0.25]	0.08 [0.17]	75 [22.1]
Di 16-2	0.6 [87]	0.75 [1.59]	0.64 [1.36]	0.57 [1.21]	0.49 [1.04]	0.41 [0.87]	0.35 [0.74]	0.29 [0.61]	0.18 [0.38]	0.04 [0.08]	73 [21.6]

MCG Mini Cobot Gripper

Order Information — Code Description - MCG Pump Unit

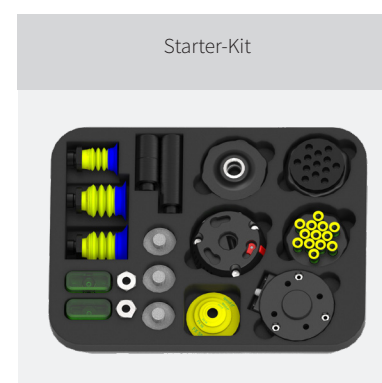
MCG	XXX	XX	XXX
MCG	Flange	Switch / Sensor	Cartridge
Mini Cobot Gripper	ISO40 - ISO 9409-1-40-4-M6 ISO50 - ISO 9409-1-50-4-M6	AN - Analog DI - Digital	Di 16-2 Si 08-2 Xi 10-2

MCG PUMP UNIT

Code	Item No.:
MCG-ISO40-An-Di16-2	0232455
MCG-ISO40-Di-Di16-2	0232453
MCG-ISO40-An-Si08-2	0232451
MCG-ISO40-Di-Si08-2	0232449
MCG-ISO40-An-Xi10-2	0232447
MCG-ISO40-Di-Xi10-2	0232445
MCG-ISO50-An-Di16-2	0232456
MCG-ISO50-Di-Di16-2	0232454
MCG-ISO50-An-Si08-2	0232452
MCG-ISO50-Di-Si08-2	0232450
MCG-ISO50-An-Xi10-2	0232448
MCG-ISO50-Di-Xi10-2	0232446

MCG STARTER KIT

Description	Item no.:
Starter Kit with ISO 40	0232488
Starter Kit with ISO 50	0232487



GRIPPER TYPES

Suction plate with 10 and 20 mm foam with flow reduction



Suction cup holder 3/8" female



Suction plate with 13x BX10 suction cups with flow reduction



Description	Item no.:
Suction plate with 10mm foam with flow reduction	0232463
Suction plate with 20 mm foam with flow reduction	0232469
Suction cup holder female 3/8" female	0232409
Suction plate with 13x BX10 suction cups with flow reduction	0232462