

# SoftGripping Educational

The Universal Gripping System  
for Education and Research

Product Catalog 2022





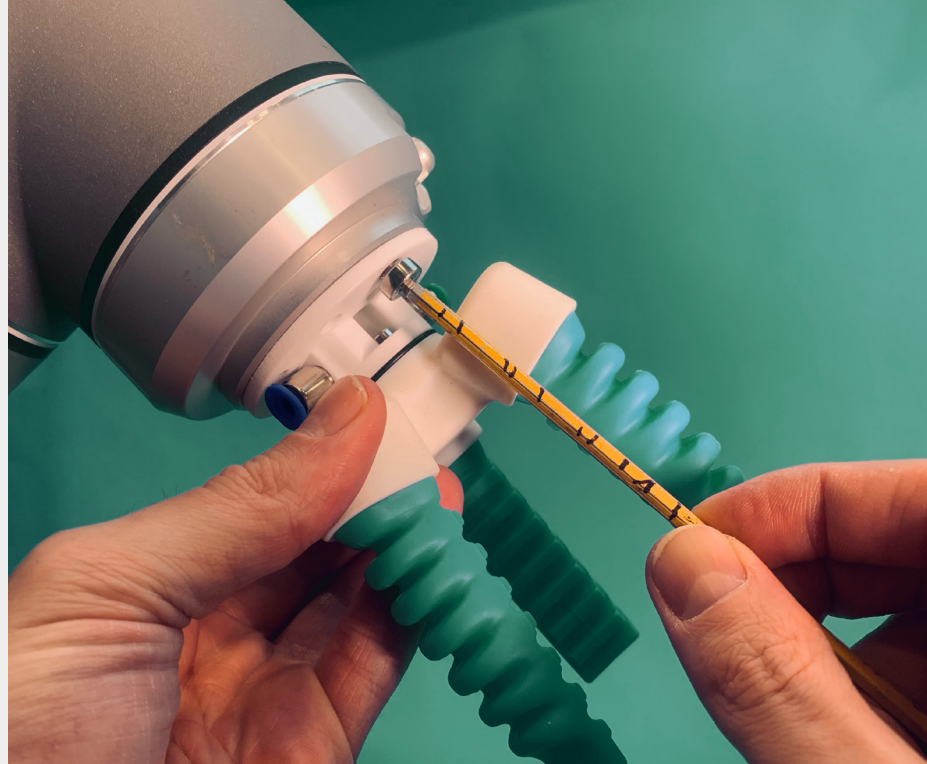
## SoftGripping Educational

Use a SoftGripper for your research and education activities. The ease of use and the possibility to handle many different objects with one SoftGripper makes it ideal for this purpose. The soft and flexible structures allow fault tolerant gripping and safe operation with humans.

Choose the specially designed SoftGripper for the popular Dobot Magician robot or for your Cobot.

You need a special gripper for your research? Just contact us.

SoftGripping - Simply plug and grip!





Grip  $p=1,0$  bar



Relaxed  $p=0$  bar

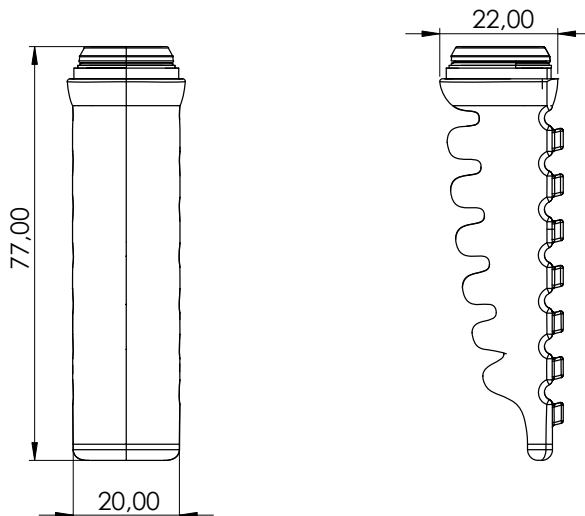


Release  $p=-0,5$  bar

The gripping fingers consist of a specially shaped silicon shell, which grips in dependence to the air pressure inside. By applying pressure the fingers close and grip an object carefully. Using vacuum the gripper can be spread.

During development, special emphasis was placed on durability. Due to an optimized shape and a specially developed material, more than 5 million gripping cycles can be performed.

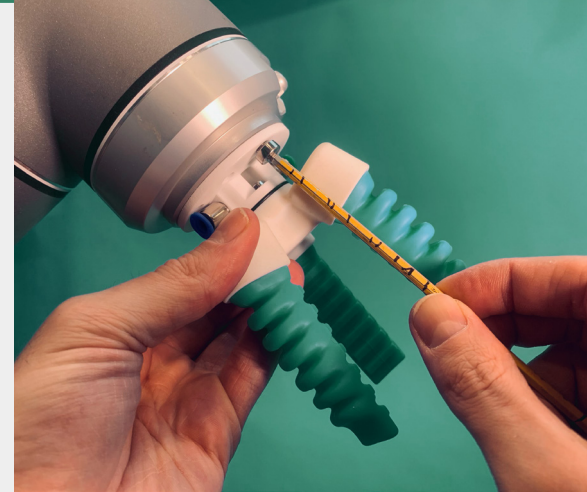
The size of the fingers is inspired by human fingers. Most of the products we want to hold in our hands were once designed to be grasped by human hands - one of the most effective and flexible gripping tool.



Finger material	Silicone
Mass	20 g
Pressure range	-0.3 ... 1.0 bar
Gripping force	4 N
Durability @1.0 bar 0.5 Hz	>5 million cycles
Gripping speed	<50 ms

# Educational Cobot SoftGripper

Learn more about  
SoftGripper!

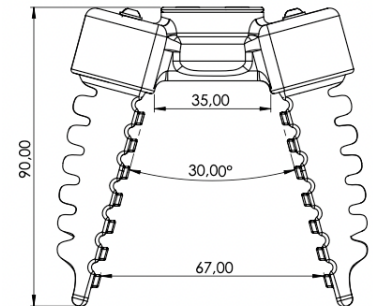


## 2 Finger Educational SoftGripper

Art.No. SG.ID.P.F2.S60.A67.D15  
Mass 190 g

### Typical Gripping Objects

Rectangular or cubic  
Feed size 5 mm - 120 mm  
Weight < 300 g

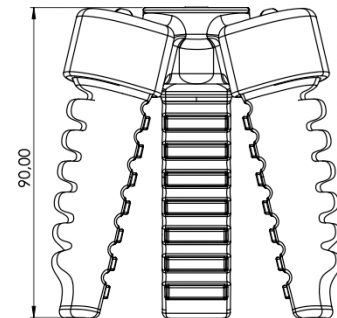


## 3 Finger Educational SoftGripper

Art.No. SG.ID.C.F3.S60.A70.D15  
Mass 240 g

### Typical Gripping Objects

Circular or cylindrical  
Feed size 5 mm - 120 mm  
Weight < 450 g

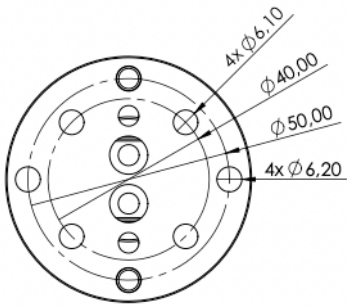
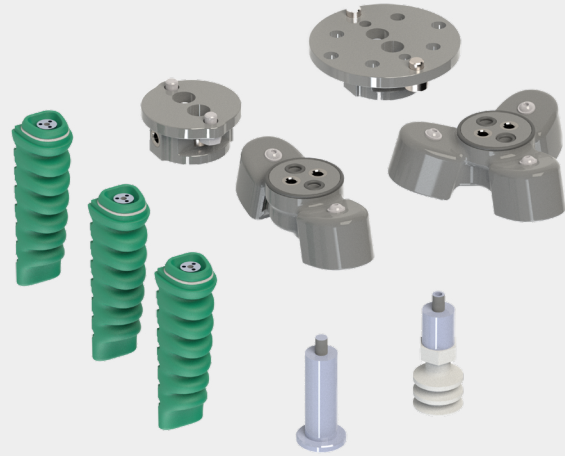




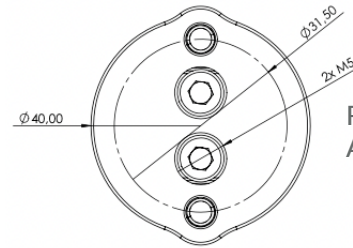
# Cobot SoftGripper - Educational Kit

## The Educational Kit includes:

- EducationI SoftGripper - 2 Finger
- EducationI SoftGripper - 3 Finger
- Suction Cup
- Spacer
- Robot Adapter ISO ISO 9409-A31,5
- Robot Adapter ISO ISO 9409-A50
- Pneumatic Accesories
- Tools



Robot Adapter ISO 9409-A50  
Art.No. SG.AN.R50



Robot Adapter ISO 9409-A31,5  
Art.No. SG.AN.R31



# SoftGripper for Dobot Magician

## 2 Finger SoftGripper for Dobot Magician

Art.No. SG.ED.P.F2.S60.A52.D10

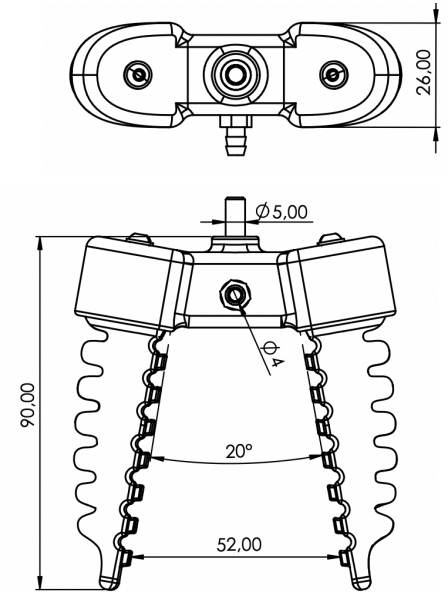
Mass 110 g

### Typical Gripping Objects

Rectangular or cubic

Feed size 5 mm - 120 mm

Weight < 300 g



## 3 Finger SoftGripper for Dobot Magician

Art.No. SG.ED.C.F3.S60.A52.D10

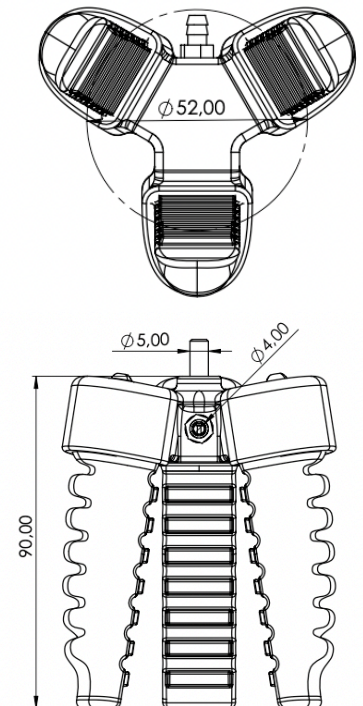
Mass 190 g

### Typical Gripping Objects

Circular or cylindrical

Feed size 5 mm - 120 mm

Weight < 450 g



Learn more about  
SoftGripper!

# SoftGripping Pump

The Pump can be used to operate a SoftGripper if you have no central air pressure supply. It has one pressure outlet for the gripper. With digital signals you can switch between three states for the fingers: grip, release and relaxed. On the front panel, you can adjust the maximum output pressure according to your requirements and monitor the pressure output.

- Suitable for Mobile Applications
- Integrated Pump
- 1 Channel for Gripping Fingers: grip, release and relax



	Controlbox P
Art.No.	SG.BP.1P.C1
Output Pressure Finger	-0.5...2.0 bar
Output Pressure Tube	6 mm
Digital Input	3x 24 V DC
Signal Connector	M12 IEC 61076-2-101







SoftGripping

Wegard GmbH  
Kirchenheide 18  
22395 Hamburg  
Germany

+49 40 319 76 995  
[info@soft-gripping.com](mailto:info@soft-gripping.com)

[www.soft-gripping.com](http://www.soft-gripping.com)  
[www.soft-gripping.shop](http://www.soft-gripping.shop)

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