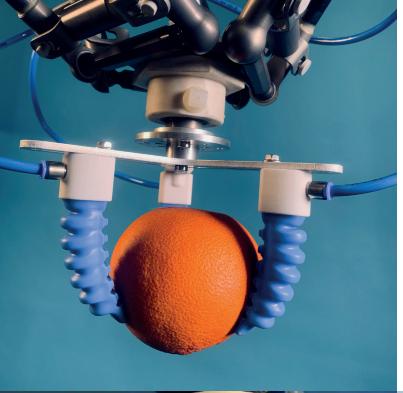




The modular design system for flexible gripping

Product Catalog 2025



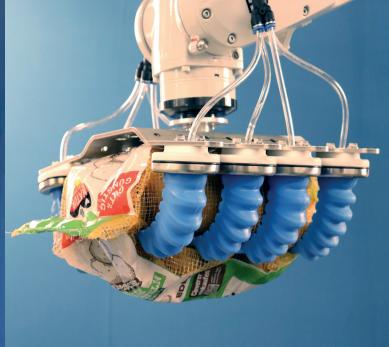
SoftGripping - Your Individual Gripper

Configure your individual gripper within minutes with the modular system of SoftGripping. The pneumatically powered elastic gripper allow easy, robust and very light designs. The soft and adaptive surfaces ensure safe and careful gripping of different shaped products.

If your application needs a special design, we are happy to develop a customized gripping system for you and support you in the entire automation process. The design and manufactoring method of SoftGripping allows a fast and cost-effective customation.

Let's find the perfect solution for your individual gripping needs.











22

SoftActuators

30

Kits





31

Application Grippers

Controlbox





Content







SoftGripping Finger + GorillaFinger

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

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.

Special emphasis in the development process was placed on the durability.

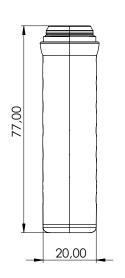


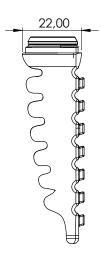




Finger material	Silicone FDA
Mass	20 g
Pressure range	-0.3 1.0 bar
Gripping force	5 N
Gripping speed	<50 ms
Optional properties	metal detectable

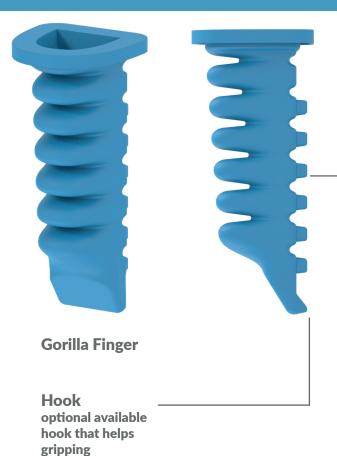
- Safe collaboration
- Fault tolerant gripping
- High-speed capable
- Optimized durability
- FDA approved material
- Optional: detectable material available
- Gripping differently shaped products with one gripper





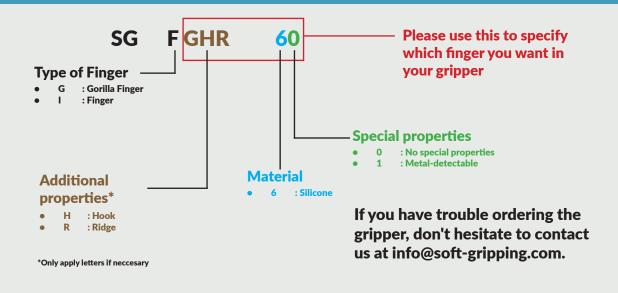
Gorilla Finger Forms

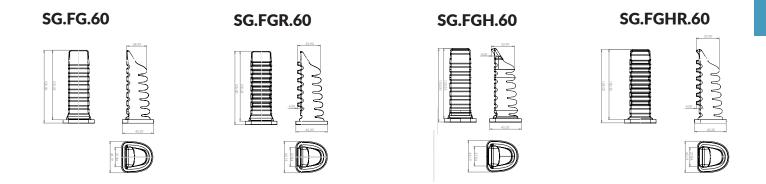




On customers requests, we can modify our Gorilla Finger to a certain extent to match their needs. Please don't hesitate to contact us! Ridge optional available ridge can give the object more stability while moving

How to order a Finger

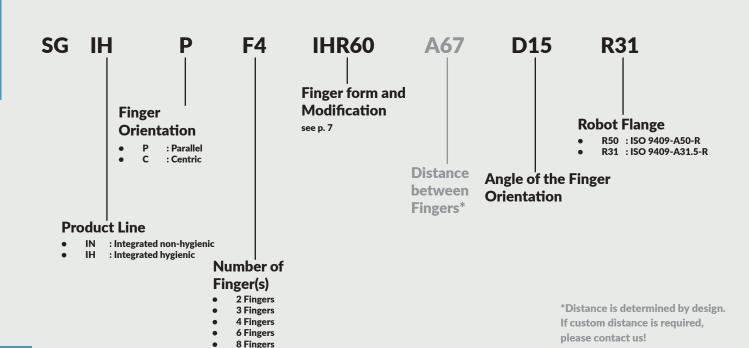




How to order a SoftGripper



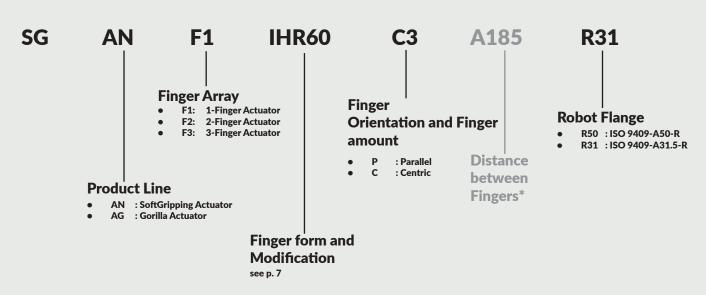
We offer a wide range of grippers in our Integrated Gripper product line. If you wish to order an Integrated Gripper, please refer to the following naming scheme. The distance between the fingers varies depending on the type of fingers and the angle at which they are arranged. This value serves as a guide to determine which objects the gripper can grasp.



How to order a SoftActuator Gripper



We offer a wide range of grippers in our Actuator Gripper product line. If you wish to order an Actuator Gripper, please refer to the following naming scheme. The distance between the fingers varies depending on the type of fingers and the angle at which they are arranged. This value serves as a guide to determine which objects the gripper can grasp.



^{*}Distance is determined by design. If custom distance is required, please contact us!





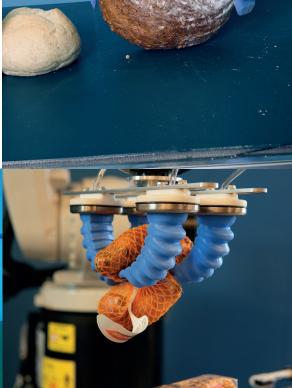


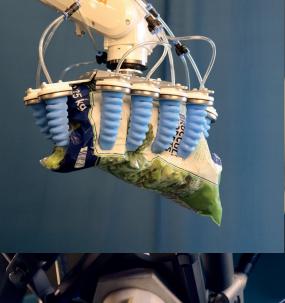
Follow us!

Our Products

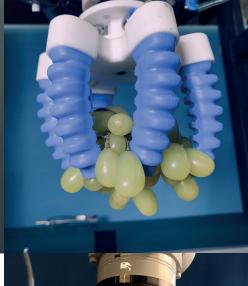






























SoftGripper

The SoftGrippers are lightweight, easy to operate and have no sharp edges. They adapt to the shape of any object without damaging the surface. The main advantages are the low weight, the gripping speed and the capability to work with all kinds of objects. Our pneumatically driven fingers are made of FDA-approved silicon rubber. We guarantee a lifetime of more than 10 million cycles at 1 bar pressure.

Adapters are available for any robot on the market. The shape of the gripping object determines the base, which is an essential part of the gripper. A circular object needs a centric base, a long object a parallel one.

You can choose one of our standard gripper with a suitable number of fingers, their arrangement and orientation. With these standard grippers you can handle most objects. For special applications, we will gladly design a completely individual base for your task in shortest time.

You will be surprised how safe and easy one SoftGripper can handle a broad range of objects due to its flexibility. So it is not necessary to have different grippers for differently shaped objects.

Additionally a vacuum suction cup can be mounted centrically to support the gripping process.

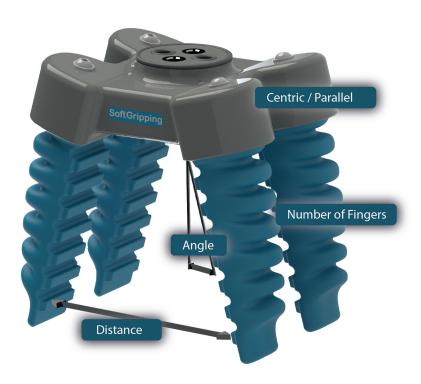




- Integrated and very light design
- Ideal for gripping differently shaped objects
- Hygienic design
- Centric and parallel grippers available
- Connector for an optional suction cup or spacer
- Ideal for handling of food and sensitive objects
- High speed gripping with delta robots
- Customized grippers available (number of fingers and finger orientation)







Configure your Individual SoftGripper

R31	Robot Flange
D15	Angle of the Finger Orientation
A67	Distance between the Fingers
260	Finger Material
F4	Number of the Fingers
Д	P arallel or C entric Gripper
王	H ygienic or N ormal Gripper
SG	

Beside our standard grippers you can freely configure your customized gripper. Simply choose the number of fingers, their orientation and distance - according to your gripping objects and process. Choose the hygienic version to handle food.

Thanks to the design and manufactoring process your individual SoftGripper can be produces within two weeks. Please reference p.8 for the correct product number for ordering.

Just follow the selection guide to specify your gripper and the article number.

You need support in your selection or design process? Just contact us. We are happy to help.

SoftGripper

Selection Guide for your Individual SoftGripper

R3,

Robot Flange



R31

ISO 9409-A31,5



R50

ISO 9409-A50

You have a different robot flange? Contact us! We can deliver the right adapter for you.

01.5

Angle of the Finger Orientation



D0

0° for rectangular objects



D15

15° or different angles for round objects



Distance between the Fingers



A30

Choose the distance corresponding to your object size.

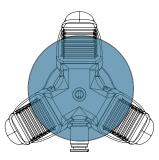


Number of the Fingers

F6

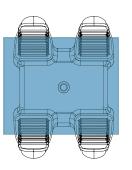
Choose the number of the finger corresponding the size and weight of your object: 1 Finger = ~150 g

Parallel or **C**entric Gripper



C

Centric gripper for round objects



Р

Parallel gripper for rectangluar objects

2-Finger Parallel SoftGripper

Art.No. SG.IN.P.F2.S60.Axx.Dxx

Mass 110 g

Typical Gripping Objects

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



SG.IN.P.F2.S60.A30.D0



SG.IN.P.F2.S60.A67.D15

3-Finger Centric SoftGripper

Art.No. SG.IN.C.F3.S60.Axx.Dxx

Mass 190 g

Typical Gripping Objects

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



SG.IN.C.F3.S60.A30.D0



SG.IN.C.F3.S60.A70.D15

4-Finger Parallel SoftGripper

Art.No. SG.IN.P.F4.S60.Axx.Dxx

Mass 200 g

Typical Gripping Objects

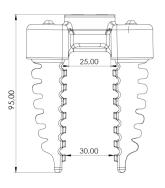
Rectangular or cubic Feed size 5 mm - 120 mm Weight < 600 g



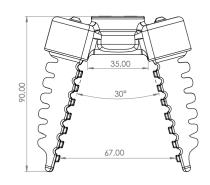
SG.IN.P.F4.S60.A30.D0



SG.IN,P.F4.S60,A67,D15



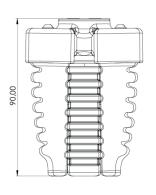
SG.IN.P.F2.S60.A30.D0



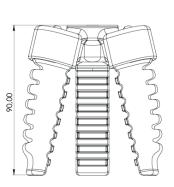
SG.IN.P.F2.S60.A67.D15

15° Cone Angle

0° Cone Angle

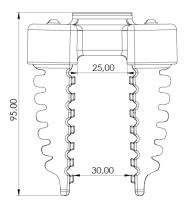


SG.IN.C.F3.S60.A30.D0

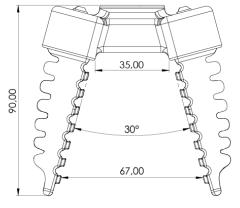


SG.IN.C.F3.S60.A70.D15 15° Cone Angle

0° Cone Angle



SG.IN.P.F4.S60.A30.D0



SG.IN.P.F4.S60.A67.D15

6-Finger Centric SoftGripper

Art.No. SG.IN.C.F6.S60.A100.D10

Mass 300 g

Typical Gripping Objects

Rectangular or cubic Feed size 5 mm - 120 mm Weight <600 g



Art.No. SG.IN.P.F6.S60.A67.D15

Mass 460 g

Typical Gripping Objects

Rectangular or cubic Feed size 40 mm - 120 mm Weight <1200 g

8-Finger Parallel SoftGripper

Art.No. SG.IN.P.F8.S60.A70.D15

Mass 460 g

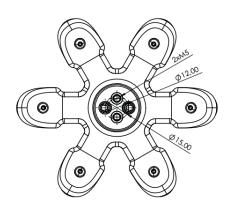
Typical Gripping Objects

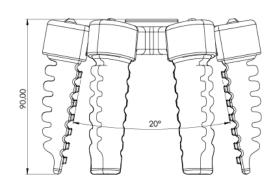
Rectangular or cubic Feed size 40 mm - 120 mm Weight <1200 g



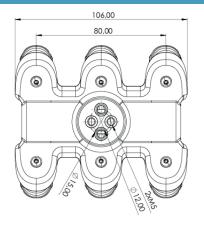


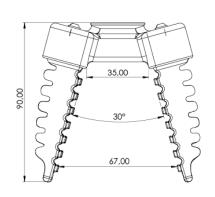




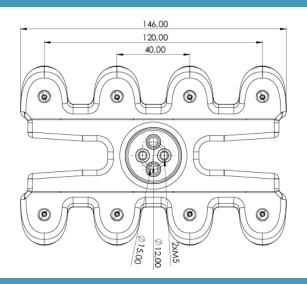


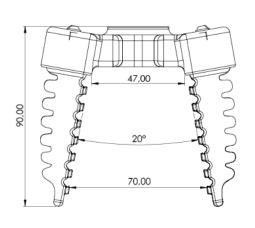
10° Cone Angle





15° Cone Angle





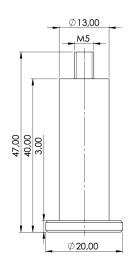
SoftGripper Accessories

Spacer for Small Objects

Art.No. SG.SP.M5.40.01

Safe gripping and avoiding of sliding upwards of small gripping objects. Other shapes on request.

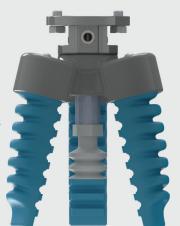


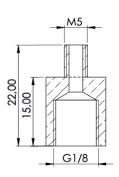


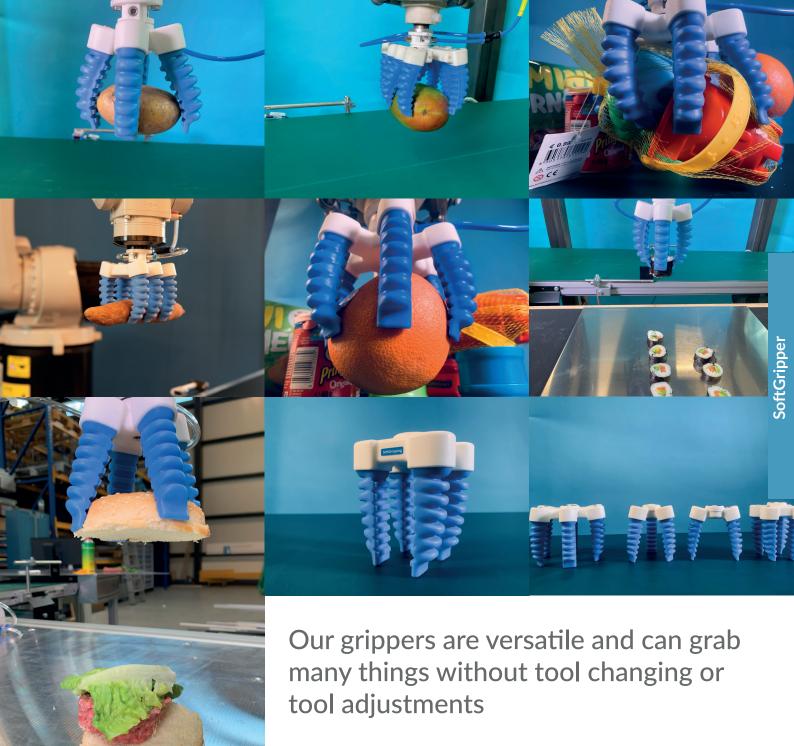
Suction Cup Extender with G1/8 thread

Art.No. SG.SP.M5.40.01

Suction cups can be used to add gripping force for flat objects.













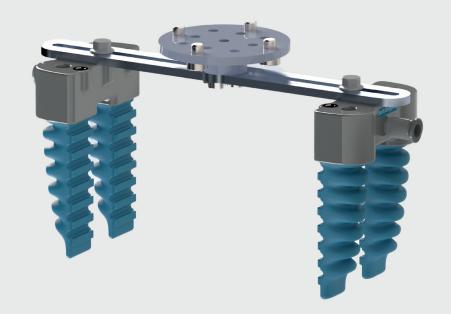
SoftActuator

You need a more flexible gripper? Do you want to modify the gripper as you go? Or you want to integrate SoftActuators into your own handling device?

SoftActuators are the right choice for you! Build up your personal gripper out of SoftActuators and attachment plates and a robot connector.







- Fits to all SoftGripping plates and profiles
- High speed pick and place applications
- Custom actuators are available (number of fingers and finger distance)

Get the CAD-models of the SoftActuators and integrate it into your design.

www.soft-gripping.com



Finger - SoftActuators

SoftGripping Finger

Art.No. SG.FI.60 Mass 20 g



1-Finger SoftActuator

Art.No. SG.AN.F1.S60 Mass 40 g



2-Finger SoftActuator

Art.No. SG.AN.F2.S60

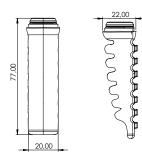
Mass 100 g

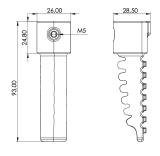


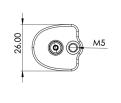
3-Finger SoftActuator

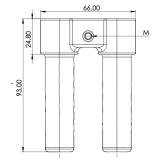
Art.No. SG.AN.F3.S60 Mass 120 g

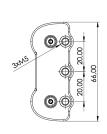


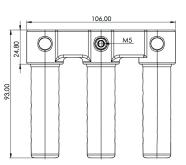


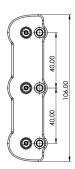












Plates for Finger - SoftActuators

Universal Plate Robot Adapter

ISO 9409-A31,5 ISO 9409-A40 ISO 9409-A50

Art.No. SG.AN.R50 Mass 80 g



Construction Plate

Art.No. SG.AN.P1.A144

Mass 30 g

2 Arm Plate

Art.No. SG.AN.P2.A185

Mass 40 g

3 Arm Plate

Art.No. SG.AN.P3.A185

Mass 50 g



Art.No. SG.AN.P4.A185

Mass 60 g

6 Arm Plate

Art.No. SG.AN.P6.A185

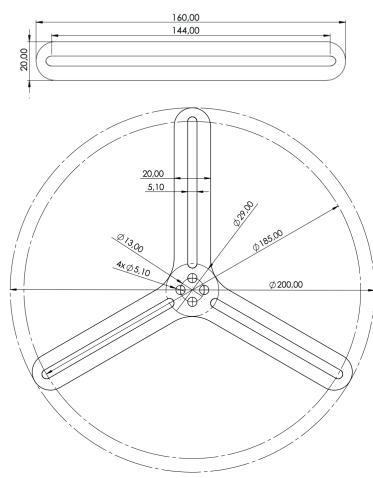
Mass 75 g

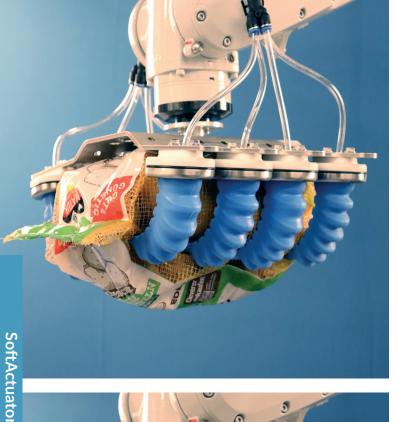
8 Arm Plate

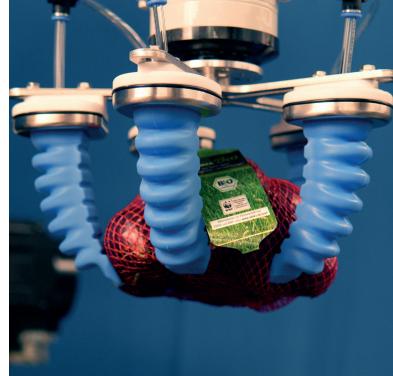
Art.No. SG.AN.P8.A185

Mass 90 g











SoftActuator - GorillaFinger

For even higher payloads, our GorillaFingers are the perfect choice. This includes a handling of netted or bagged products like potatoes, apples, carrots or onios. The typical weight of the products handled by this larger fingers is 3 kg.

Other products include bottles, melons, cauliflowers and other rather large produce. The bigger finger surface is ideal for handling doughballs.

Like with standard SoftActuators, you can built up your personal gripper out of GorillaFingers, attachment plates and a robot connector.

GorillaFinger

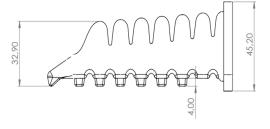
Art. No. SG.FGH.60 for variations see p. 7

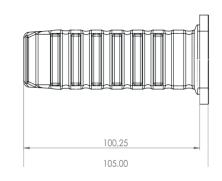


Finger material	Silicone FDA
Mass	42 g
Pressure range	-0.3 1.0 bar
Gripping force	1.0 bar: 11.0 N
Gripping speed	<50 ms
Optional properties	metal detectable

- Safe collaboration
- Fault tolerant gripping
- High-speed capable
- Optimized durability
- FDA approved material
- Optional: metal detectable material available
- Gripping differently shaped products with one gripper
- large gripping surface, high gripping strengh







GorillaFinger SoftActuators

1-Finger GorillaFinger SoftActuator

Art.No. SG.AG.F1.[Finger Code] Mass 170 g



Double Finger Gorilla-Finger SoftActuator

Art.No. SG.AG.F2.60 Mass 170 g

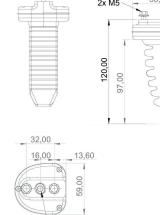


Triple Finger Gorilla-Finger SoftActuator

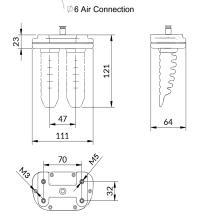
Art.No. SG.AG.F3.60 Mass 170 g



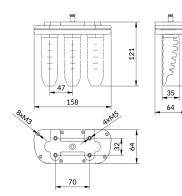












Plates for GorillaFinger SoftActuators

2 Arm Plate

Art.No. SG.AG.P2.A240 Mass 80 g



3 Arm Plate

Art.No. SG.AG.C3.A240 Mass 100 g



4 Arm Plate

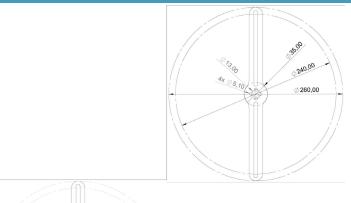
Art.No. SG.AG.P4.A240 Mass 160 g

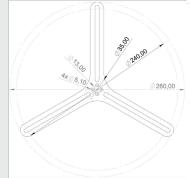


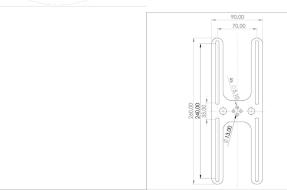
5 Arm Plate

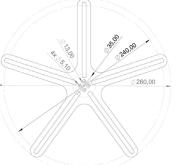
Art.No. SG.AG.C5.A240 Mass 160 g











SoftGripping Engineering Kits

GorillaFinger Engineering Kit

Art.No. SG.GE.B5

A kit with 5 GorillaFingers (SG.FGH.60) and a set of plates for costumization and adapters that fit all standard ISO flanges. Perfect for larger and heavier goods,

bags and nets.



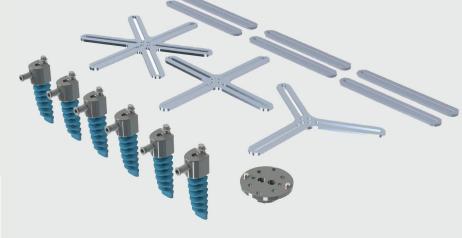


Engineering Kit

Art.No. SG.AP.B6

Our Engineering Kit a great choice fo your experimentation needs. The HumanFingers are great for small and medium sized objects and tight spaces.





Do you have various applications and would like to test the versatility of SoftGripping? You can do it with the Constrution Kit!

The Construction Kit includes:

- 6x SoftGripping Finger
- 2 Finger Gripper Base
- 3 Finger Gripper Base
- 4 Finger Gripper Base
- 6 Finger Gripper Base
- Suction Cup
- Spacer
- Pneumatic Accesories
- Roboter adapter

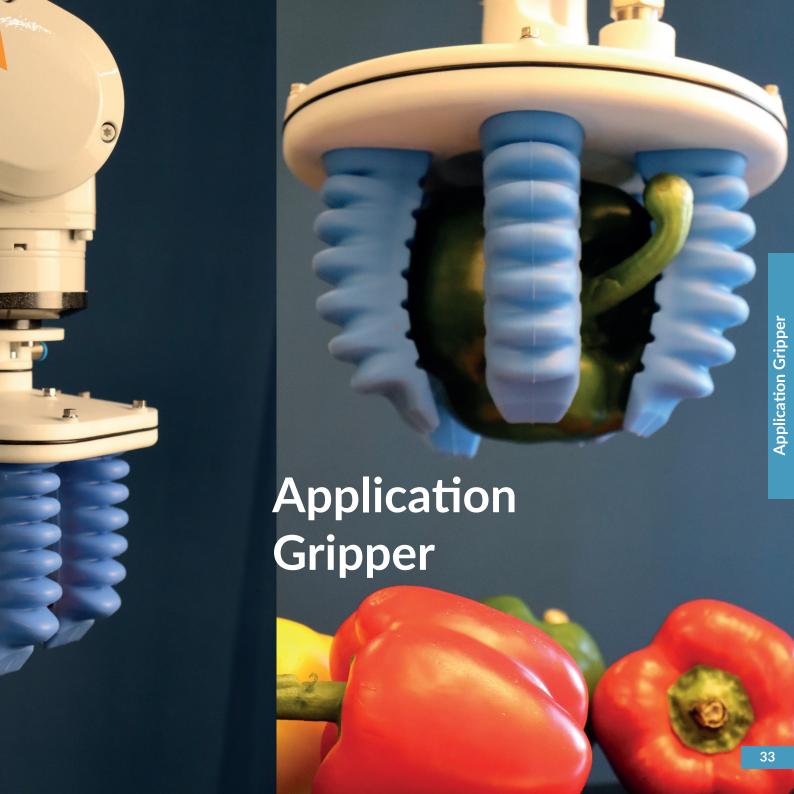












Application Grippers

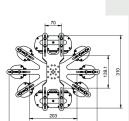
GorillaFinger BagGripper

Art.No. SG.AG.F12.BG01

A gripper with 12 GorillaFingers designed for handling bags and nets. Due to its angled Fingers, this gripper can firmly hold the bag during translocation.







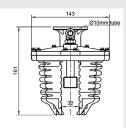
GorillaFinger DrumstickGripper

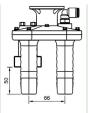
Art.No. SG,AG,F4,DS01

A gripper with 4 GorillaFingers designed for handling chicken drumstick. Due to its spacer, this gripper can firmly hold the chicken drumstick during translocation.









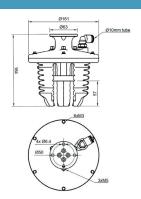
Application Grippers

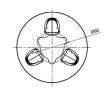
MozzarellaGripper

Art.No. SG.IG.F3.MG01

The Mozzarella Soft Gripper ensures safe, hygienic handling of soft, wet cheese products. Its flexible design provides a gentle yet secure grip, preventing deformation or tearing. Made from food-grade materials, it's perfect for automation in cheese processing lines, combining efficiency with uncompromised product integrity and cleanliness.







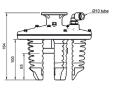


Art.No. SG.IG.F5.DG01

The Dough Soft Gripper is designed for gentle, hygienic handling of delicate dough products. Its flexible, food-grade fingers ensure a secure grip without damaging the product's shape or texture. Ideal for bakery automation, it enhances efficiency while maintaining product quality and cleanliness in compliance with strict hygiene standards.













SoftGripping Controlbox

The Controlbox can be used to operate SoftGripper and SoftActuator. It has two ouputs for air supply at the back panel. One for the fingers and one for the vacuum suction cup (VP-V).

At the front panel, you can adjust the maximum output pressure according to your requirements and monitor the pressure output. With digital signals via the signal connector you can switch between three states for the fingers: grip, release or relaxed. The suction cup can be switched between grip and release (VP-V).

- Suitable for High Speed Industrial Applications
- Cobot Applications
- 1 Channel for Gripping Fingers: grip, release and relax
- 1 Channel for Suction Cup (VP-V)



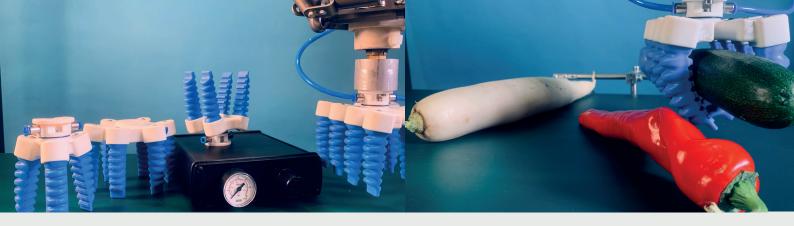
	Controlbox VP	Controlbox VP-V
Art.No.	SG.BP.1V.C3	SG.BP.2V.C3
Input Pressure	4-8 bar	4-8 bar
Output Pressure Finger	-0.41.5 bar	-0.7/01.5 bar
Output Pressure Vacu- um Cup	-	-0.7 bar
Switching Speed	<20 ms	<20 ms
Input Pressure Tube	8 mm	8 mm
Output Pressure Tube	8 mm	8 mm
Digital Input	3 x 24 V DC	3 x 24 V DC
Signal Connector	M12 IEC 61076- 2-101	M12 IEC 61076- 2-101







VP-V



SoftGripping Pump

The Pump can be used to operate 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. At 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

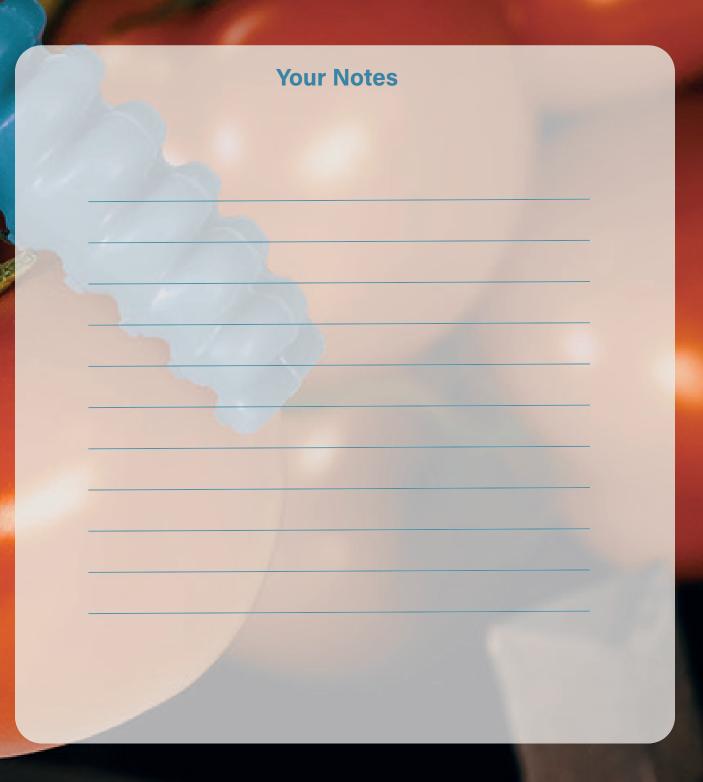
	Controlbox P
Art.No.	SG.BP.1P.C1
Output Pressure Finger	-0.53.0 bar
Output Pressure Tube	6 mm
Output i ressure rube	0 111111
Digital Input	3x 24 V DC







Your Notes





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