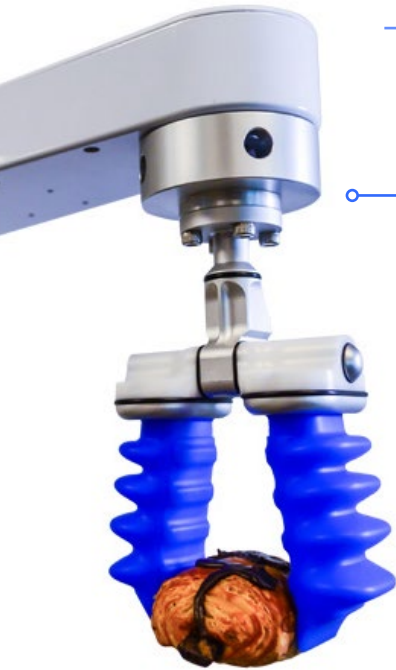# ENABLING MACHINE BUILDERS

Expand into new markets, reduce project no bids, and enhance in-house picking and packing capabilities

WHAT IS *m*GRIP?

***m*Grip is a modular gripping platform** that leverages soft polymers to enable adaptive handling of objects of varying size, shape, and weight. This high-speed and easy-to-use solution is perfect for automating pick-and-place applications.

WHAT ARE SOFT ROBOTICS CONTROL UNITS?

All of our grippers are enabled by a Soft Robotics Control Unit (SRCU). Our high performance controllers have done applications at 120 picks per minute and higher, allow precise programming control of our grippers, and optimize the useful life of our grippers.

*m*GRIP BENEFITS

» **Reliability.** *m*Grip has high-speed pick reliability for variable, delicate, or irregularly shaped items which helps increase product yield.

» **Modular.** You can quickly set up gripper configurations to meet your needs.

» **Food-safety.** *m*Grip complies with FDA CFR Title 21 Regulations and is compliant under EC 1935/2004 in the European Union for food contact.
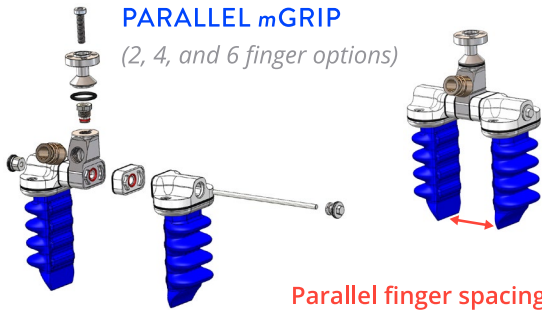
SRCU BENEFITS

» **Precision and repeatability.** Set grip strength and opening amount to reduce product waste and increase your bottom line.

» **Ease of use.** Integrates easily with 3rd party equipment and gives full end of arm tooling control right from your laptop or teach pendant (for specific robot models).

» **Speed.** Our controllers can handle applications at 120 picks per minute and higher to deliver the throughput needed for most high-speed applications.
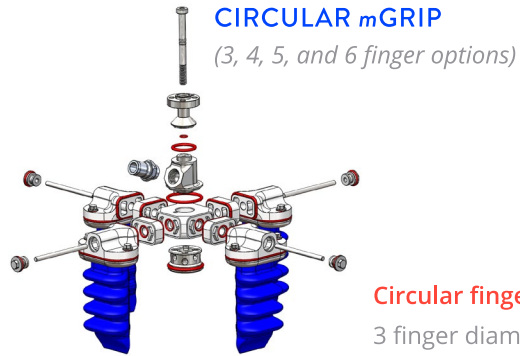
Reach out at solutions@softroboticsinc.com to get access to our CAD Configurator, work with us to configure your optimal tool, and learn more about how we support integrators.

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mGrip Configurations

The modular design of *m*Grip allows for configurable gripper size, shape, and spacing to meet the need of your application.

PARALLEL *m*GRIP
(2, 4, and 6 finger options)

Parallel finger spacing:

40mm to 120mm

CIRCULAR *m*GRIP
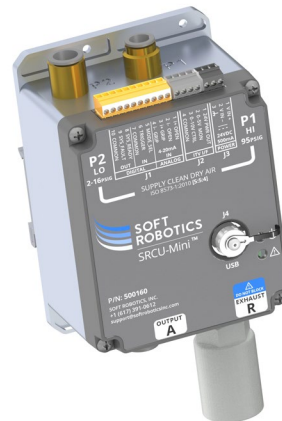*(3, 4, 5, and 6 finger options)*

Circular finger spacing:

3 finger diameter: 50mm to 130 mm
4 finger diameter: 65mm to 145mm
5 finger diameter: 85mm to 155mm
6 finger diameter: 105mm to 165mm

SRCU Options

SRCU-G2 Controller

Our highest performance controller with custom enclosure designed to IP65.

SRCU-Mini Controller*

Our fast and compact controller, perfect for integrator flexibility.

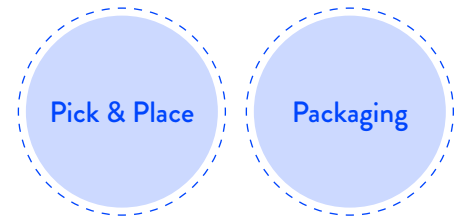**Available in Universal Robots and FANUC specific configurations.*

*m*Grip *and Soft Robotics Control Units are configurable at time of order.*

*m*Grip *kits are offered in both a Standard (Aluminum) and Food Safe (Stainless Steel) option. Food Safe m*Grip *kits are compliant with (EC) 1935:2004 and meet the requirements of the United States FDA Codes of Federal Regulation 21 CFR concerning materials intended for food contact.*

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INDUSTRIES

- Food
- Consumer Packaged Goods
- eCommerce

APPLICATIONS

- Pick & Place
- Packaging

mGrip & Controller Specifications

*m*Grip	
Pickable object dimensions	**Circular:** diameter up to 165 mm* **Parallel:** width up to 120 mm* *Able to handle larger sizes upon request*
Pickable object weights	Up to 3.4 kg (7.5 lbs)
Achievable application rate	Up to 120 picks per minute
Tool height	130 mm - 190 mm
Tool mass	200 g - 1.6 kg* *Dependent on gripper configuration and type*
Ingress protection rating	IP67

Controller	
Controller air requirement	95 psig
Input air quality	ISO 8573-1:2010 [5:5:4]
Controller power requirement	24 VDC ± 10% @ 0.5 A MAX
Communications protocol	Digital and Analog IO

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