



**mGrip™**

*Modular Gripping System*



The mGrip modular gripping system is a suite of configurable gripper and controller products that enables reliable, high-speed picking of traditionally hard to grasp items in the food processing and consumer packaged goods industries.

### Why mGrip?

New applications require new capabilities. The adaptability and modularity of mGrip is the key to automation growth into new areas. mGrip handles differences in product size, shape, and weight so you can reliably pick irregular or delicate products at high speeds.

## mGrip Features and Benefits

### Adaptable Gripper

Pick challenging products with virtually any robot type. One gripper can be used to pick multiple SKUs.

### Versatile Platform

Off-the-shelf components to quickly build production-grade tools in different configurations.

### Reliable Design

Engineered to last in demanding environments. mGrip is used globally in various manufacturing settings and has completed billions of picks.

### Fast

Execute multiple picks in under a second for your high-speed applications.

### Food Grade

An IP69K rating, food-grade materials, and sanitary design elements make mGrip a great choice for food automation.

### Precise, Repeatable Control

Effectively pick from tightly packed product arrays and place accurately into various forms of packaging.

REVOLUTIONARY AUTOMATED PIECE PICKING CAPABILITIES

NF483A

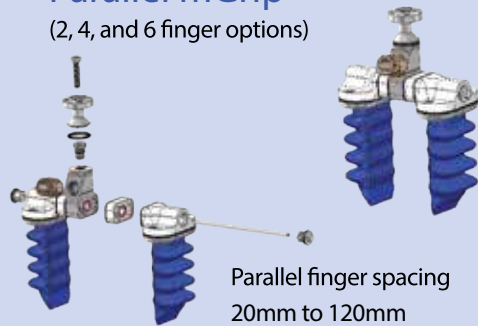
# mGrip Configurations



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

## Parallel mGrip

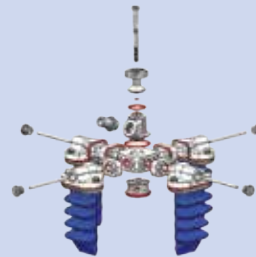
(2, 4, and 6 finger options)



Parallel finger spacing  
20mm to 120mm

## Circular mGrip

(3, 4, 5, and 6 finger options)



Circular finger spacing

3 finger diameter: 30mm to 130mm

4 finger diameter: 45mm to 145mm

5 finger diameter: 55mm to 155mm

6 finger diameter: 75mm to 165mm

## Controller Options

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 gripper life.



**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.

### mGrip Specifications

**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\*  
\*Application dependent

**Tool height** 130 mm - 190 mm

**Tool mass** 200 g - 1.6 kg\*  
\*Dependent on gripper configuration and type

**Ingress protection rating** IP69K

### Controller Specifications

**Controller air requirement** 95 psig

**Input air quality** ISO 8573-1:2010 [5:5:4]

**Controller power requirement** 24 VDC  $\pm$  10% @ 0.5 A MAX

**Communications protocol** Digital and Analog IO

mGrip and Soft Robotics Control Units are configurable at time of order. mGrip kits are offered in both a Standard (Aluminum) and Food Grade (Stainless Steel) option.

Food Grade mGrip 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.

ZV-RRD-2.5M