

FLEXIBLE ROBOT GRIPPERS

DESIGNED FOR  UNIVERSAL ROBOTS

FAST, EASY, PLUG AND PLAY INTEGRATION

ADAPTIVE GRIPPERS

2-FINGER 85 & 140



EASY INSTALLATION

Everything you'll need for a quick installation from hardware to software.

GET THE MOST OUT OF YOUR ROBOT

This robot and grippers team thrives on fast set up runs and flexibility.

EASY PROGRAMMING

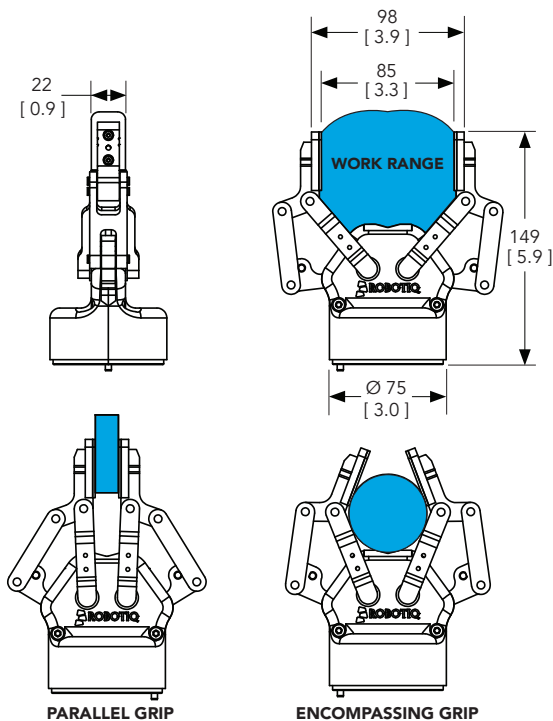
Ready-made gripper programming templates for Universal Robots.

 UNIVERSAL ROBOTS

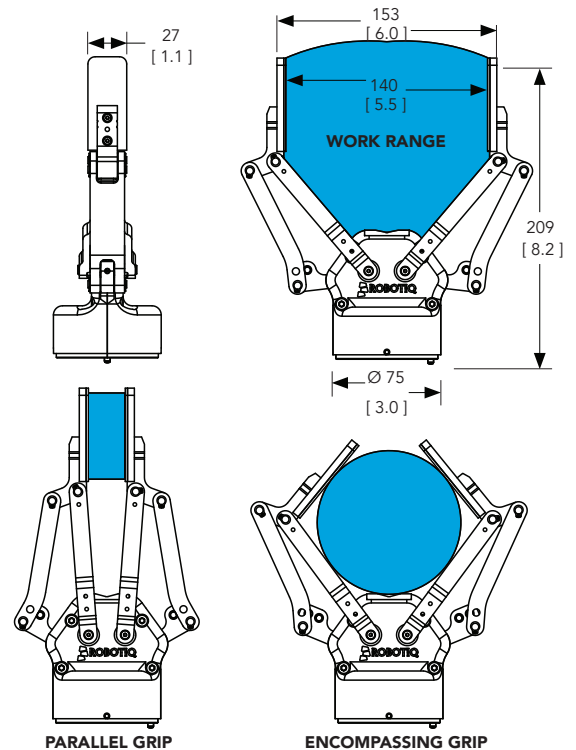


ADAPTIVE GRIPPERS TECHNICAL DATA

2-FINGER 85



2-FINGER 140



UNITS: mm
[in.]

MECHANICAL SPECIFICATIONS*

	2-FINGER 85		2-FINGER 140	
Gripper opening (see figure)	0 to 85 mm	0 to 3.3 in	0 to 140 mm	0 to 5.5 in
Object diameter for encompassing grip	43 to 85 mm	1.7 to 3.3 in	90 to 140 mm	3.5 to 5.5 in
Gripper weight with mechanical coupling	900 g	2 lbs	1000 g	2.2 lbs
Maximum recommended payload	5 kg	11 lbs	2.5 kg	5.5 lbs
0.3 friction coefficient between finger and steel part, safety factor of 2.6				
Grip force**	5 to 220 N	1.1 to 49.45 lbf	10 to 110 N	2.2 to 24.7 lbf
Closing speed	20 to 150 mm/s	0.8 to 5.9 in/s	30 to 250 mm/s	1.2 to 9.8 in/s
Operating temperature	-10°C to 50°C	14°F to 122°F	-10°C to 50°C	14°F to 122°F
Parallel grip repeatability	0.05 mm	0.002 in	0.08 mm	0.003 in

* Using Flat Silicone Fingertips for 2-Finger 85 and 2-Finger 140 Adaptive Grippers

** ±10%, varies with speed and force parameters

CONTROL

Communication protocol	Modbus RTU (RS-485, Half-duplex)
Communication protocol options with controller	Ethernet/IP, Modbus TCP, PROFINET, DeviceNet, CANopen, EtherCAT
Programmable gripping parameters	Position, speed and force control
Status LED	Power, communication and fault status
Feedback	Grip detection, gripper position and motor current

ELECTRICAL SPECIFICATIONS

Nominal supply voltage	24 V DC ±10%
Absolute maximum supply voltage	28 V DC
Quiescent power (minimum power consumption)	<1 W
Peak current	1 A

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Specifications subject to change without notice