



PRODUCTS

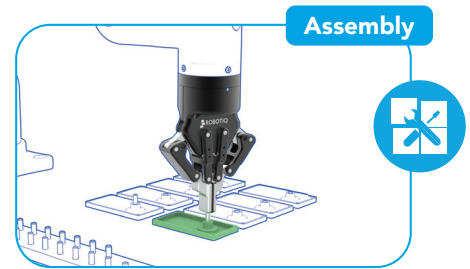
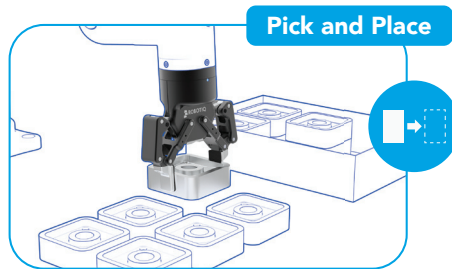
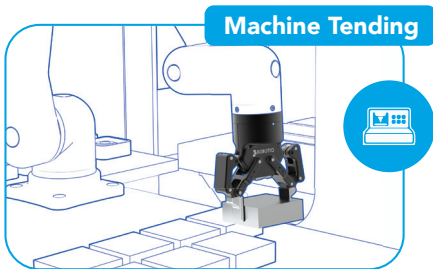




ADAPTIVE GRIPPERS



BUILT FOR COBOT APPLICATIONS



**START
PRODUCTION
FASTER**



Watch our case studies at
[casestudies.robotiq.com](https://www.robotiq.com/casestudies)

PLUG + PLAY ON EVERY TOP COLLABORATIVE ROBOT BRANDS



DESIGN

- Plug + Play kit
- Wide range of applications
- Easy to customize

INTEGRATE

- Fast installation
- Easy and powerful programming
- Programmable stroke, speed and force

OPERATE

- High force, payload and precision
- Robust, factory-proven hardware

SPECIFICATIONS

	Hand-E	2F-85	2F-140
Stroke (adjustable)	50 mm	85 mm	140 mm
Grip force (adjustable)	20 to 130 N	20 to 235 N	10 to 125 N
Form-fit grip payload	5 kg	5 kg	2.5 kg
Friction grip payload	3 kg	5 kg	2.5 kg
Gripper mass	1 kg	0.9 kg	1 kg
Position resolution (fingertip)	0.2 mm	0.4 mm	0.6 mm
Closing speed (adjustable)	20 to 150 mm/s	20 to 150 mm/s	30 to 250 mm/s
Communication protocol	Modbus RTU (RS-485), RS-485, RS-232		
Ingress protection (IP) rating	IP67	IP40	IP40

* All specifications provided for reference only. See user manual at support.robotiq.com for official specifications.

WHAT'S NEXT?

Get access to the Adaptive Grippers specifications at support.robotiq.com

Chat with the Robotiq sales team: iss@robotiq.com

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VACUUM GRIPPERS

AIR PICK



EPICK



Robotiq Vacuum Grippers can handle a wide range of applications and are ideal for picking up uneven and even surfaces made of different materials such as cardboard, glass, sheet metal (dry) and plastic. Because of the customizable bracket and unique air nodes, Robotiq Vacuum Grippers provide manufacturers full control over their gripper to make sure it's a perfect fit for their applications.

SMOOTH HANDLING FOR YOUR APPLICATIONS



Pick and place



Palletizing



Assembly



Packaging



Machine tending

EXAMPLES

- Flat plastic parts can be taken off a conveyor and stacked in a bin with an EPick Vacuum Gripper.
- Wrapped cakes can be put in a box with an EPick Vacuum Gripper and the box can then be placed on a pallet using an AirPick Vacuum Gripper.
- Bundles of cards can be picked up off a transport cart and loaded on a conveyor with an EPick Vacuum Gripper.
- Wrapped books and magazines can be stacked on a pallet so as they lay flat on top of one another. An AirPick Vacuum Gripper can pick them up and stack them in a box.

TWO HANDLING OPTIONS FOR ALL YOUR APPLICATIONS

AIR PICK

Powerful vacuum flow
Low noise
Compact design for cobots

E PICK

Connected to the cobot wrist
No air supply
Easy to handle

BUILT FOR INDUSTRIAL APPLICATIONS

EASY INSTALLATION

PLUG + PLAY

FULLY CUSTOMIZABLE

EASY PROGRAMMING

Vacuum

Grip Release

Vacuum Grip Mode ?

Smart Custom

Pressure Setpoint %

Tolerance %

Timeout: ms

Options

Wait for object detected

Smart Mode

The Smart Mode is an automatic mode that manages the distribution of the vacuum without entering any parameters.

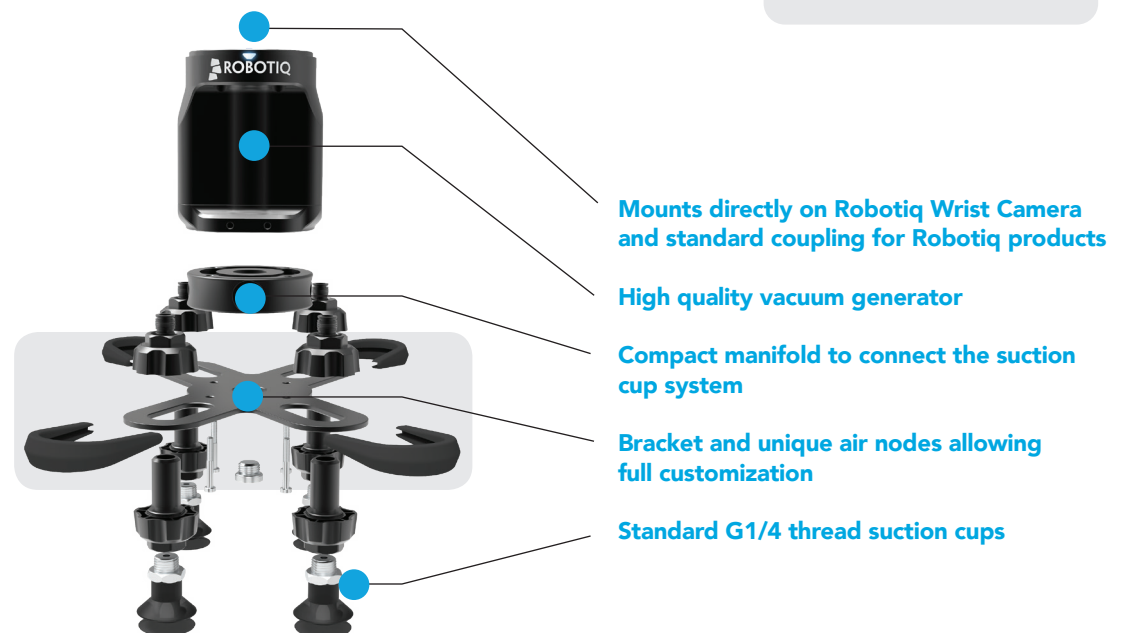
Custom Mode

The Custom Mode allows full customization of the vacuum flow to meet your specific application needs.

Wait until object detected

With this option, the Vacuum Gripper has to detect an object before executing the next command.

SUCTION CUPS SYSTEM



AVAILABLE
ROBOTIQ KITS
FOR
AIR PICK



AVAILABLE
ROBOTIQ KITS
FOR
E PICK



**EASY TO INTEGRATE
EASY TO USE**



SPECIFICATIONS

	Unit	EPick	AirPick
Energy source	-	Electricity	Compressed air
Gripper mass	g	710	332
Vacuum level	%	80	85
Vacuum flow	L/min	12	*
Air consumption	L/min	-	135,9

*See manual for further information.

WHAT'S NEXT?

**START
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For further information
support.robotiq.com
iss@robotiq.com
 1-888-Robotiq





3-FINGER ADAPTIVE ROBOT GRIPPER



EASY TO USE

- Plug + Play
- UR+ certified product
- Free programming software

MAXIMUM VERSATILITY

- 4 different grip modes
- Independent finger control
- Picks objects of any size & shape

PROVEN DESIGN

- Rugged and reliable
- Fully metallic
- High payload



Pick and Place



Assembly



Quality Testing



Machine Tending

START PRODUCTION FASTER



TAKE FULL CONTROL

ADJUST THE GRIPPER'S POSITION, SPEED, AND FORCE UNTIL IT GRASPS YOUR OBJECT PERFECTLY



EXTREMELY WIDE STROKE

OPEN UP TO 155 MM WITH THE ENCOMPASSING GRIP MODE

SPECIFICATIONS

Stroke (programmable)	155 mm
Grip force (programmable)	30 to 70 N
Form-fit grip payload	10 kg
Friction grip payload	2.5 kg
Finger position repeatability (fingertip grip)	0.05 mm
Closing speed (programmable)	22 to 110 mm/s
Gripper mass	2.3 kg
Primary communication protocol	Modbus RTU (RS-485)
Secondary communication protocol options	Modbus TCP, EtherNet/IP, PROFINET, EtherCAT, DeviceNet, CANopen

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WHAT'S NEXT?

Get access to the 3-Finger Adaptive Robot Gripper specifications at support.robotiq.com

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WRIST CAMERA

VISION MADE FOR UNIVERSAL ROBOTS

| EASY TO USE

- Teach, edit, and run via the teach pendant
- Locate many parts in a single snapshot
- Operate with any expertise level



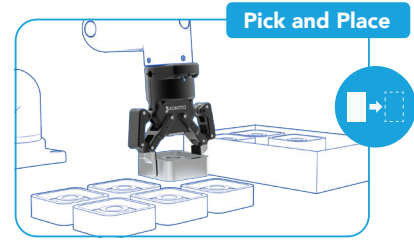
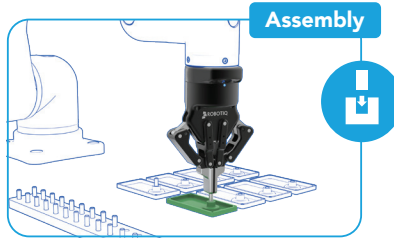
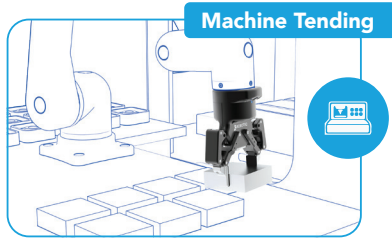
**START
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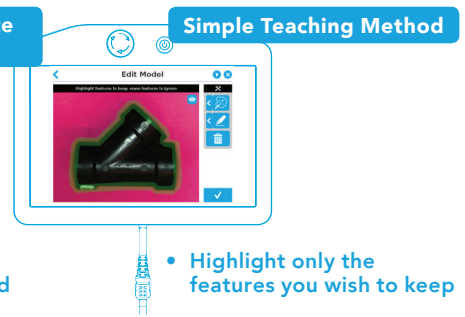
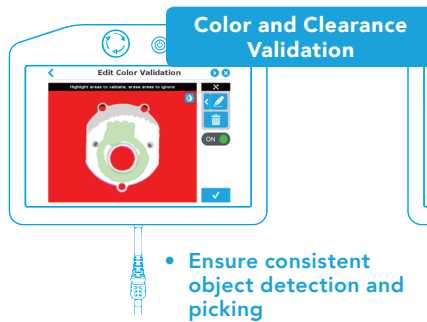
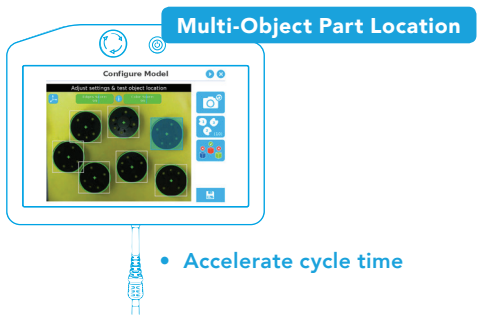
FAST & REPEATABLE PART DETECTION



APPLICATIONS



FEATURES



SPECIFICATIONS

Sensor & Optics	5 MP color sensor, electrically adjustable focus, 70 mm to infinity
Integrated Lighting	Two units (diffused white LED)
Programmable Parameters	<ul style="list-style-type: none"> Automatic part teaching (user defined arbitrary shape) Parametric part teaching (circle, ring, square, rectangle) Edge editing, object color and clearance validation 2 convenient camera control modes: basic, advanced Automatic and manual camera parameters: exposure, focus, LED lighting, white balance
Electrical	Direct communication with UR controller (via USB), and power supply from controller (24 V)
Mass	160 g
Operating Temperature	0°C to 50°C

* All specifications are provided for reference only. See User Manual at support.robotiq.com for official specifications.

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FT 300 FORCE TORQUE SENSOR



EASY TO USE

- Plug + Play
- UR+ certified product
- Free programming software

FORCE-SENSITIVE TASKS READY

- Assembly and part insertion
 - Part finishing
- Machine tending & product testing

FOR INDUSTRIAL NEEDS

- Fully metallic hardware
- Wear-free sensing technology
- High-resolution sensor



Pick and Place



Finishing



Assembly



Quality Testing



Machine Tending



Insertion

START PRODUCTION FASTER



PERFORM HIGH-PRECISION ASSEMBLY TASKS

USE OUR FREE, READY-TO-USE SOFTWARE PROGRAMS



TEACH YOUR ROBOT IN SECONDS

PROGRAM COMPLEX ROBOT TRAJECTORIES IN NO TIME

SPECIFICATIONS	FX	FY	FZ	MX	MY	MZ
Measuring range	± 300 N			± 30 Nm		
Overload capacity	500%			500%		
Signal noise	0.1 N			0.005 Nm	0.003 Nm	
Recommended threshold for contact detection	1 N			0.02 Nm	0.01 Nm	
Tool deflection at maximum measurable load	0.01 mm			0.17 deg	0.09 deg	
External noise sensitivity	Immune					
Data output rate (data stream mode)	100 Hz					
Mass	300 g					
Communication protocol	Modbus RTU / Data stream (RS-485)					

* All specifications are provided for reference only. See User Manual at support.robotiq.com for official specifications.

WHAT'S NEXT?

Get access to the FT 300 Force Torque Sensor specifications at support.robotiq.com

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FORCE COPILOT

FORCE CONTROL
MADE EASY



UR e-Series

START
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INTUITIVE SOFTWARE FOR FT 300 AND E-SERIES ONBOARD FORCE TORQUE SENSOR



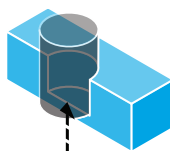
Machine Tending



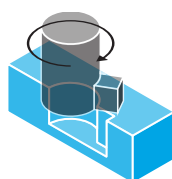
PRECISELY DETECT CONTACTS



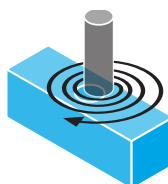
Assembly



INSERT PARTS



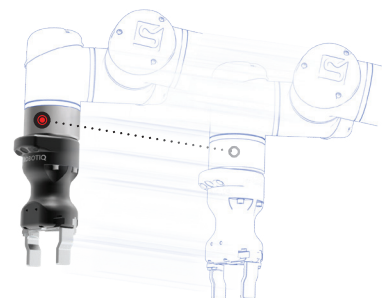
INDEX PARTS



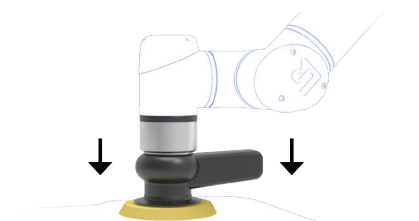
ALIGN WITH HOLE



Finishing



FOLLOW TRAJECTORIES



APPLY CONSTANT FORCES

WHAT'S NEXT?

Get access to the Force Copilot specifications at support.robotiq.com

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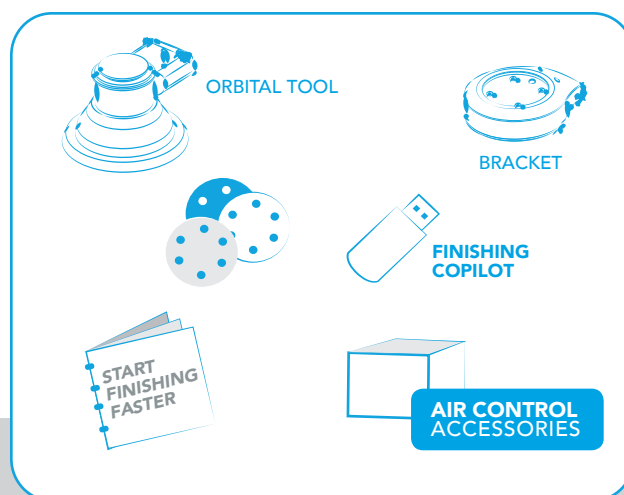
SANDING KIT



FROM HOURS OF PROGRAMMING TO MINUTES

- Automate sanding tasks the easy way
- Increase quality & productivity
- The only hardware & software sanding solution for Universal Robots
- End worker injuries

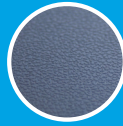
START PRODUCTION FASTER



SUPPORTED MATERIALS



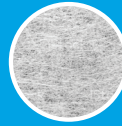
WOOD



PLASTIC



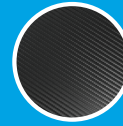
METAL



FIBERGLASS



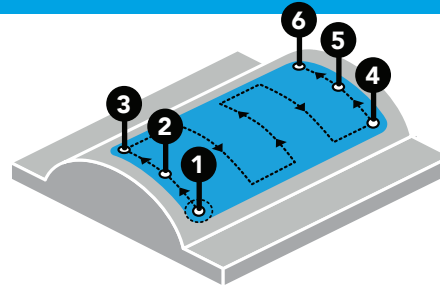
SOLID SURFACE



CARBON FIBER

BUILT-IN PATH GENERATOR

Teach six waypoints and let Finishing Copilot generate a complete path and apply constant force at each cycle.



PRO TIPS

Robotiq is a pioneer in force control for collaborative robots. We built our expertise by supporting hundreds of clients with their automation projects. Our **sanding pro tips book** includes our best lessons learned in the past 10 years. Use it to save hours of programming.

BEFORE AND AFTER SALES SUPPORT

We make sure the Robotiq products you purchase meet your needs, thanks to our proof of concept service. And when you do buy, we provide the most complete after-sales support in the industry.



SPECIFICATIONS

Random orbital sander

Maximum air supply	6.2 bar (90 PSI)
Air flow (full speed)	450 L/min (16 SCFM)
Pad diameter	5"
Media	Hook and loop; 5 holes
Orbit diameter	3/32"
Maximum speed	12,000 RPM
Air supply inlet	1/4" NPT thread

Dust exhaust Central vacuum ready;
1" (25 mm) diameter.

Robotiq bracket

Weight	0.42 kg
Added height	9 mm

Control valve

Air supply inlet/outlet	1/4" NPT thread
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Sanding media kit

Grits	60, 80, 120, 320, 400
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WHAT'S NEXT?

Get access to the Sanding Kit specifications at support.robotiq.com

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INSIGHTS



REMOTE ACCESS

- Manage your robot from anywhere
- Get support from robotics experts

MONITOR PRODUCTION

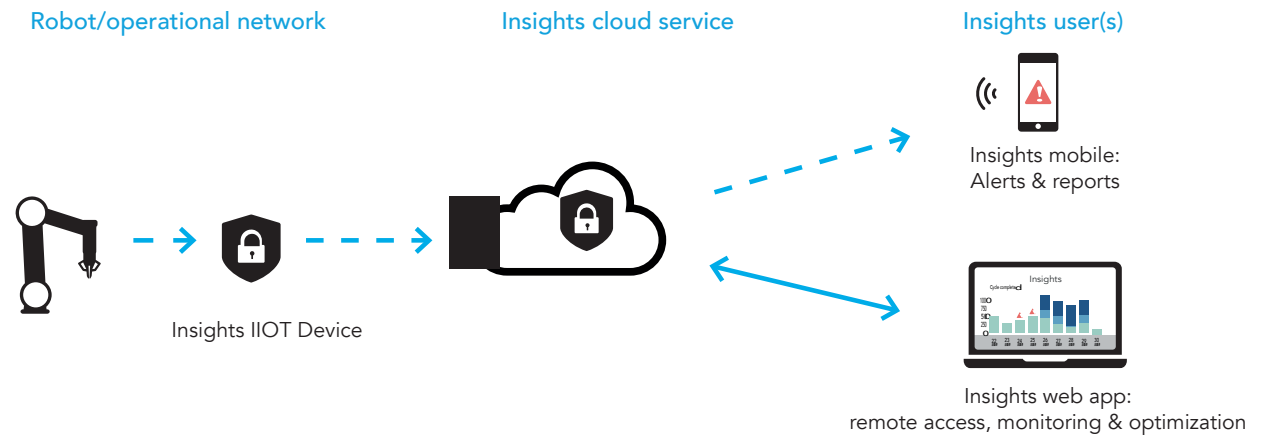
- Get a real-time robot overview
 - Define and track KPIs
 - Receive daily reports

OPTIMIZE PERFORMANCE

- Track progress
- Analyze trends
- Download events log

START PRODUCTION FASTER

How it works



As easy as 1-2-3!

1. Install the **Insights URCap** on your robot.
 2. Connect your robot securely to the cloud using the **Insights IIOT Device**.
 3. Pair your robot with your **Insights Cloud Service** account.
- Manage your robot from anywhere on insights.robotiq.com

Insights requires

- UR3, UR5 or UR10 (with CB3.1 controller)
- Internet connection

Purchase Options

	Insights License ¹	Insights Starter Kit
Real-Time Robot Overview	✓	✓
Email Reports Scheduler	✓	✓
Robot SMS Alerts	✓	✓
Production Performance Timeline & KPIs	✓	✓
Robot Digital I/Os	✓	✓
Downloadable Events Log	✓	✓
Remote Access	✓	✓
Robot Programs Backup	✓	✓
Preconfigured 4G LTE/Wi-Fi Router & antennas		✓
Prepaid international SIM card ²		✓
Logitech C920 webcam		✓
Connexion cables & accessories		✓

¹ 1-year term.

² Equivalent to a 1-month period.

Contact your local Robotiq distributor for pricing.
Subscription plans may change without prior notice.

WHAT'S NEXT?

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