ROBOTIQ

PRODUCTS + APPLICATIONS

START PRODUCTION FASTER

LEAN ROBOTICS

PLUG + PLAY COMPONENTS

HAND-E

2F-85

2F-140

3F

EPICK

AIRPICK

WRIST CAMERA

FORCE TORQUE SENSOR

SOFTWARE

MACHINE TENDING COPILOT

FINISHING COPILOT

FORCE COPILOT

INSIGHTS

APPLICATION KITS

BIN PICKING KIT

MACHINE TENDING COPILOT

CNC MACHINE TENDING KIT

MACHINE TENDING COPILOT

SURFACE FINISHING KIT

FINISHING COPILOT

EXTERNAL FINISHING KIT

FINISHING COPILOT

APPLICATION SOLUTION

ROBOTIQ PALLETIZING *SOLUTION*

Robot not included

AUTOMATICALLY GENERATED AND OPTIMIZED SMOOTH MOTION	UP TO 13 BOXES PER MINUTE

EASE-OF-USE IS REDEFINED WITH THE ROBOTIQ PALLETIZING SOLUTION

Open the box, and the hardware and software is already connected.

Plan your set-up in just three steps directly on the robot control device.

WHO WE ARE

Manufacturers struggle to put robots to work in their factories because it's still too costly and too complicated. Robotiq's tools and know-how simplify collaborative robot applications, so factories can start production faster. Robotiq works with a global network of connected robot experts supporting their local manufacturers.

OUR MISSION

Free human hands from repetitive tasks

AT A GLANCE

12,000+ Hands Freed

300+ Channel partners globally

LEAN ROBOTICS

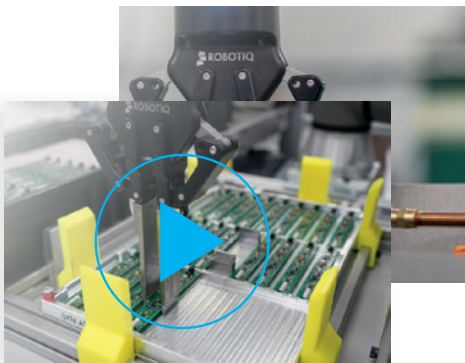Save time with a **step-by-step methodology** that helps you go from a manual task to a robotic one.

LEAN
ROBOTICS

RESOURCES

ROBOTIQ eLearning

Empower yourself with Robotiq products and cobot applications, using the only elearning platform integrating Lean Robotics concepts.

elearning.robotiq.com

Case Studies

There's nothing like real life examples to see the difference Robotiq Plug + Play Components make. Watch how companies, big and small, are deploying robots in their factories and how they improved their business with Robotiq.
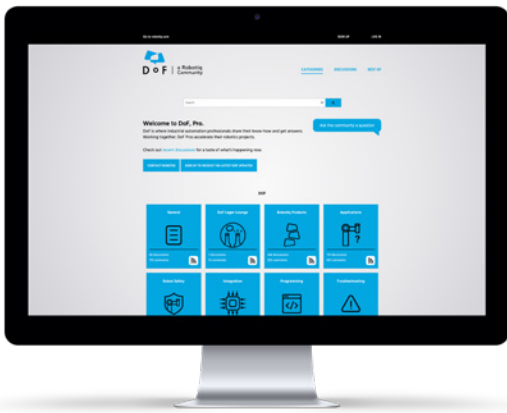
robotiq.com/resource-center/case-studies

eBooks

We love writing about different aspects of robotics and automation. In fact, we've written dozens of eBooks, all available for **free** in our resource center.

robotiq.com/resource-center/ebooks

D o F | a Robotiq Community

**Get technical insights from cobot experts**

DoF is where industrial automation professionals share their know-how and get answers. Working together, DoF Pros accelerate their robotics projects.

dof.robotiq.com

Ready to automate?

Blueprints is a **free service** that helps manufacturers accelerate their robotic cell process.

1. Access **blueprints.robotiq.com** to describe and document your current task.

2. Our integration coaches will help you automate it.

THE ROBOTIQ

48H
LEADTIME
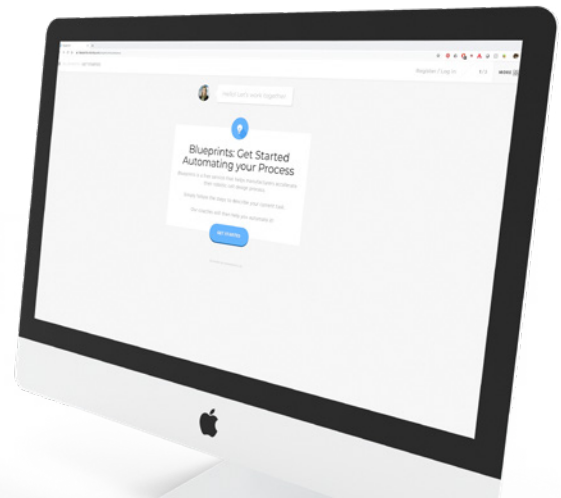
› **Factory proven** hardware
› The most **user-friendly software** for cobots
› **Product synergy** between each component
› **10 years of experience** in cobot applications
› **99% satisfaction rate** in proof-of-concept and support services

DIFFERENCE

PLUG + PLAY COMPONENTS

HAND-E

ADAPTATIVE GRIPPER

THE GRIPPER FOR COLLABORATIVE ROBOTS

- Plug + Play and easy to program

- Ideal for precision assembly tasks

- Ergonomic shape for hand-guiding

- Built for industrial applications and harsh environments

- Automatic part detection, position feedback, and part validation
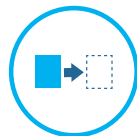
Pick & Place   Assembly   Machine Tending   Quality Testing

SPECIFICATIONS

Stroke (adjustable)	50 mm	2 in
Grip force (adjustable)	20 to 185 N	4.5 to 41 lbf
Form-fit grip payload	5 kg	11 lbs
Friction grip payload*	4,7 kg	8.8 lbs
Gripper weight	1 kg	2 lbs
Position resolution (fingertip)	0.4 mm	
Closing speed (adjustable)	20 to 150 mm/s	0.8 to 5.9 in/s
Communication protocol	Modbus RTU (RS-485)	
Ingress protection (IP) rating	IP67	

* Calculated for the use of silicon covered fingertips to grip a steel object, at a low robot acceleration.
** All specifications provided for reference only. See user manual at support.robotiq.com for official specifications.

SKUs

HND-ES-UR-KIT	Hand-E Gripper Kit for UR e-Series	• 1 x Hand-E Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x Hand-E Fingertip Starting Kit • 1 x End-Effector Coupling Kit for e-Series (UR) • 1 x USB stick
HND-GRP	Hand-E Basic Gripper Unit	• 1 x Hand-E Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x screw kit
HND-UR-KIT	Hand-E Gripper Kit for UR	• 1 x Hand-E Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x Hand-E Fingertip Starting Kit • 1 x End-Effector Coupling Kit • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB stick
HND-UR-KIT-W	Hand-E Wrist Connect Kit for UR CB	• 1 x Hand-E Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x Hand-E Fingertip Starting Kit • 1 x I/O Coupling Kit including: • 1 x I/O Coupling • 1 x Micro-USB to USB cable • 1 x 16G USB Stick

DEMO

HND-DEMO-KIT	Hand-E Gripper Demo Kit for UR	• 1 x Hand-E Basic Gripper Unit • 1 x Hand-E Fingertip Starting Kit • 1 x End-Effector Coupling Kit • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB stick • 1 x End-Effector Coupling Kit for UR e-Series • 1 x I/O Coupling Kit for CB series

COMBOS

|		
CUR-DUAL-HND	Two (2) Hand-E Gripper Combo for UR	• 2 x Hand-E Basic Gripper Unit (with flat rubber overmolded fingertips) • 2 x Hand-E Fingertip starter kit • 2 x End-Effector Coupling Kit • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB stick • 1 x Dual Adapter Plate • 1 x M12 Splitter male to 2 female
CUR-ES-DUAL-HND	Combo of Two Hand-e for UR e-series	• 2 x Hand-E Basic Gripper Unit (with flat rubber overmolded fingertips) • 2 x Hand-E Fingertip starter kit • 2 x End-Effector Coupling Kit for e-Series • 1 x USB stick • 1 x Dual Adapter Plate • 1 x M8 Splitter - Dual Coupling UR e-Series
CUR-HND-RWC5	Hand-E & Wrist Camera Combo for UR	• 1 x Hand-E Gripper Basic Unit (with flat rubber overmolded fingertips) • 1 x Hand-E Fingertip Starting Kit • 1 x Wrist Camera kit for UR
CUR-HND-RWC5-FTS-S	Hand-E, Camera and FT300-S Combo for UR	• 1 x Hand-E Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x Wrist Camera kit for UR • 1 x FT300-S Sensor kit for UR
CUR-READY	Hand-E Eserie force copilot insight	• 1 x Hand-E Basic Gripper Unit • 1 x Hand-E Fingertip Starting Kit • 1 x Gripper Coupling Kit for e-Series (UR) • 1 x Screw kit • 1 x USB stick for UR software package • 1 x Force Copilot dongle key • 1 x Yearly subscription to Insights (to be sent by email) Used for robots: • Eserie cobot from Universal Robot
HND-FTS-S-UR-KIT	Hand-E and FT 300 Sensor Kit for UR	• 1 x Hand-E Gripper Kit for UR CB • 1 x FT300 S Sensor kit for UR

2F ADAPTATIVE GRIPPERS

2F-85

2F-140
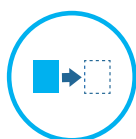
Pick & Place

Assembly

Machine Tending

Quality Testing

SPECIFICATIONS

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

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

AGC-ES-UR-KIT-140	2F-140 Gripper Kit for UR e-Series	• 1 x 2F-140 Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x End-Effector Coupling Kit for e-Series • 1 x USB stick
AGC-ES-UR-KIT-85	2F-85 Gripper Kit for UR e-Series	• 1 x 2F-85 Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x End-Effector Coupling Kit for e-Series • 1 x USB stick
AGC-GRP-2F140	2F-140 Basic Gripper Unit	• 1 x 2F-140 Basic Gripper Unit • 1 x Parallel mechanism locking pins • 1 x Screw kit
AGC-GRP-2F85	2F-85 Basic Gripper Unit	• 1 x 2F-85 Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x Parallel mechanism locking pins • 1 x Screw kit
AGC-UR-KIT-002	2F-85 Gripper kit for UR	• 1 x 2F-85 Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x End-Effector Coupling Kit • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB stick
AGC-UR-KIT-140	2F-140 Gripper kit for UR	• 1 x 2F-140 Basic Gripper Unit • 1 x End Effector Coupling for Bolt Pattern ISO 9409-1–50–4–M6 (with 1 m Pigtail Cable) • 1 x 10 m Robotiq Device Cable • 1 x USB to RS485 Adapter • 1 x Parallel mechanism locking pins • 1 x Screw Kit for Fixing End Effector Coupling on UR Robots • 1 x USB stick for UR software package

AGC-UR-KIT-140-W	2F-140 Wrist Connect Kit for UR CB	• 1 x Gripper 2F-140
		• 1 x I/O Coupling Kit including:
		  • 1 x I/O Coupling
		  • 1 x Micro-USB to USB cable
		  • 1 x USB Stick

AGC-UR-KIT-85-W	2F-85 Wrist Connect Kit for UR CB	• 1 x 2F-85 Basic Gripper Unit (with flat rubber overmolded fingertips)
		• 1 x I/O Coupling Kit including:
		  • 1 x I/O Coupling
		  • 1 x Micro-USB to USB cable
		  • 1 x USB Stick

DEMO

AGC-DEMO-KIT-002	2F-85 demo kit for Distributors	• 1 x 2F-85 Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x End-Effector Coupling Kit • 1 x End-Effector Coupling Kit for UR e-Series • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB stick • 1 x I/O Coupling Kit for UR CB series • 1 x 2F-85 Gripper collaborative protector kit

AGC-FTS-S-UR-KIT-002	2F-85 Gripper and FT 300-S Sensor UR kit	• 1 x Gripper 2F-85 UR CB Kit • 1 x FT300-S Sensor kit for UR • 1 x 4 ports USB hub
AGC-FTS-S-UR-KIT-140	2F140 & FT 300-S Sensor kit for UR	• 1 x 2F-140 Gripper UR CB Kit • 1 x FT300-S Sensor kit for UR • 1 x 4 ports USB hub
CUR-AGC-085-RWC5	Combo of 2F85 and Wrist Camera for UR	• 1 x 2F-85 Gripper Basic Unit (with flat rubber overmolded fingertips) • 1 x Wrist Camera kit for UR
CUR-AGC-085-RWC5-FTS-S	Combo of 2F85, Camera & FT300-S for UR	• 1 x 2F-85 Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x Wrist Camera kit for UR • 1 x FT300-S Sensor kit for UR
CUR-AGC-140-RWC5	Combo of 2F140 and Wrist Camera for UR	• 1 x 2F-140 Gripper Basic Unit (with flat rubber overmolded fingertips) • 1 x Wrist Camera kit for UR
CUR-AGC-140-RWC5-FTS-S	Combo of 2F140, Camera & FT300-S for UR	• 1 x 2F-140 Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x Wrist Camera kit for UR • 1 x FT300-S Sensor kit for UR
CUR-DUAL-AGC-085	Combo of Two 2F-85 for Universal Robots	• 2 x 2F-85 Basic Gripper Unit (with flat rubber overmolded fingertips) • 2 x End-Effector Coupling Kit • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB stick • 1 x Dual Adapter Plate • 1 x M12 Splitter male to 2 female
CUR-DUAL-AGC-140	Combo of Two 2F-140 for Universal Robots	• 2 x 2F-140 Basic Gripper Unit (with flat rubber overmolded fingertips) • 2 x End-Effector Coupling Kit • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB stick • 1 x Dual Adapter Plate • 1 x M12 Splitter male to 2 female
CUR-ES-DUAL-AGC-085	Combo of Two 2F-85 for UR e-series	• 2 x 2F-85 Basic Gripper Unit (with flat rubber overmolded fingertips) • 2 x End-Effector Coupling Kit for e-Series • 1 x USB stick • 1 x Dual Adapter Plate • 1 x M8 Splitter - Dual Coupling UR e-Series
CUR-ES-DUAL-AGC-140	Combo of Two 2F-140 for UR e-series	• 2 x 2F-140 Basic Gripper Unit (with flat rubber overmolded fingertips) • 2 x End-Effector Coupling Kit for e-Series • 1 x USB stick • 1 x Dual Adapter Plate • 1 x M8 Splitter - Dual Coupling UR e-Series

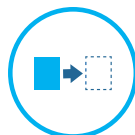# *3-FINGER ROBOT* GRIPPERS

PROVEN DESIGN

- **Rugged and reliable**
- **Fully metallic**
- **High payload**

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

Pick & Place   Assembly   Machine Tending   Quality Testing

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 weight	2.3 kg
Primary communication protocol	Modbus RTU (RS-485)
Secondary communication protocol options	Modbus TCP, EtherNet/IP, PROFINET, EtherCAT, DeviceNet, CANopen

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

SKUs

AGS-UR-KIT	3-Finger Adaptive Gripper kit for UR	• 1 x 3-Finger Adaptive Gripper with Modbus TCP option
		    • 1 x 10 m high flex Supply Cable
		    • 1 x 10m Communication Cable
		    • 1 x USB Cable
		    • 1 x Grease syringe
		• 1 x 3-Finger Coupling S-101
		• 1 x 3-Finger Wrist Adapter Plate S-157
		• 1 x USB Stick

DEMO

AGS-DEMO-KIT	Demo kit for distributors (3F)	• 1 x 3-Finger Adaptive Gripper with Modbus TCP option • 1 x Power supply 24V/2.7A • 1 x 3-Finger demo kit carrying case

COMBO

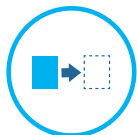| AGS-FTS-S-UR-KIT	3F Gripper and FT300-S Sensor kit for UR	• 1 x 3F Gripper UR KIT • 1 x FTS300 Sensor kit for UR

VACUUM GRIPPERS

AIR PICK

E PICK

SMOOTH HANDLING FOR YOUR APPLICATIONS
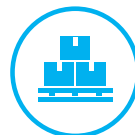
Pick & Place   Assembly   Machine Tending   Palletizing   Packaging

SPECIFICATIONS

	EPick	**Air**Pick
Energy source	Electricity	Compressed air
Gripper weight	710 g	481 g
Maximum Vacuum level	80%	85%
Maximum Vacuum flow	12 L/min	52,7 L/min
Air consumption	-	135,9 L/min
Minimum Feed pressure	-	3 bar
Maximum Feed pressure	-	7 bar
Connection, compressed air	-	8 mm OD Tube
Operating ambient temperature	5 to 40 °C	0 to 50 °C
Humidity	20-80% non condensing	20-80% non condensing

FULLY **CUSTOMIZABLE**
EASY TO **INTEGRATE**
EASY TO **USE**

UP AND **RUNNING** IN **30 MINUTES**

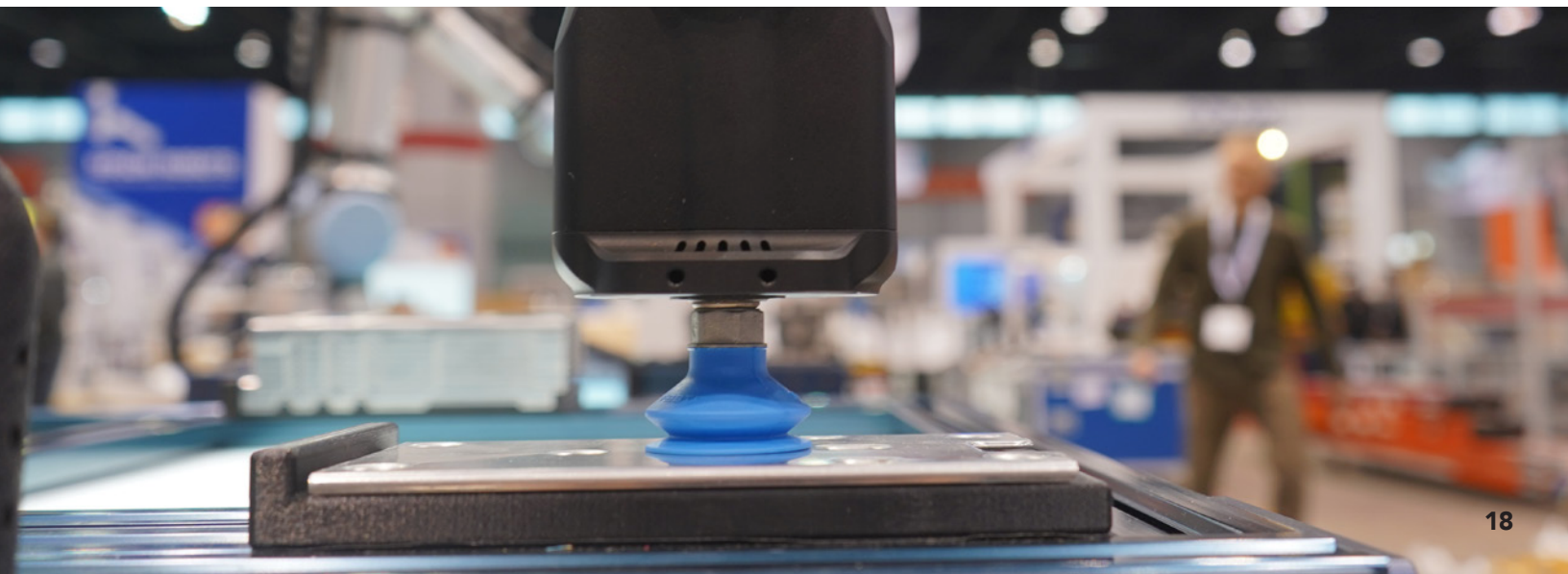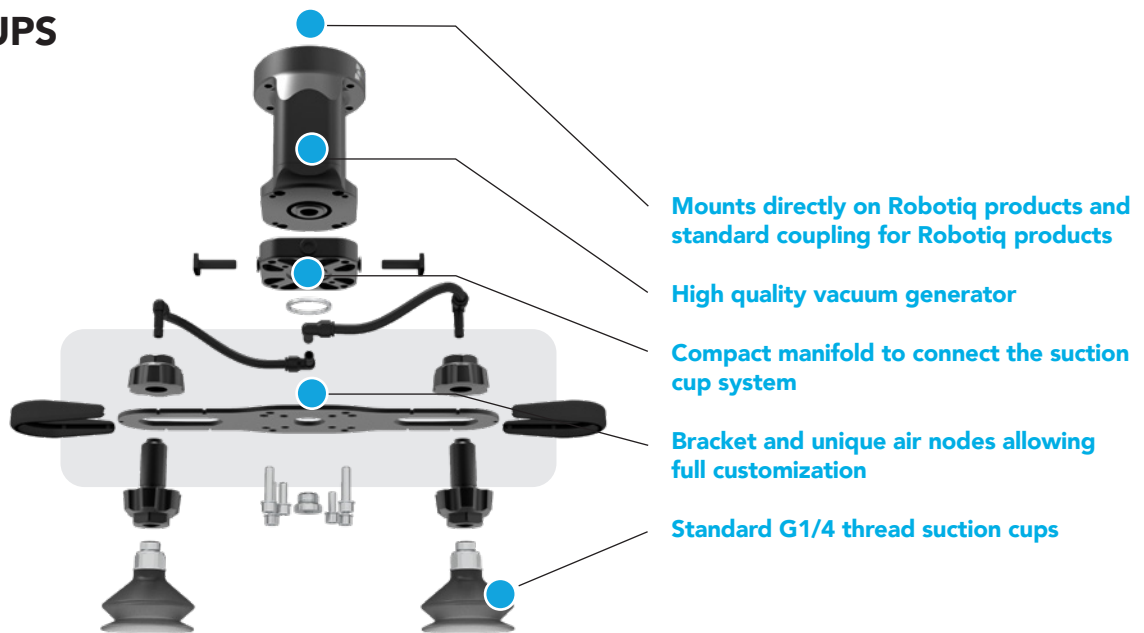**AIR PICK**

• Powerful vacuum flow
• Low noise
• Compact design for cobots

E PICK

• No air supply
• Perfect for non porous material
• Easy to handle

SUCTION CUPS
SYSTEM

Mounts directly on Robotiq products and standard coupling for Robotiq products

High quality vacuum generator

Compact manifold to connect the suction cup system

Bracket and unique air nodes allowing full customization

Standard G1/4 thread suction cups

SKUs

VAC-CB-UR-AIRPICK-KIT1	AirPick Kit for CB-Series UR / 1 Cup	• 1 x Pneumatic vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter) • 1 x Tubing 8mm - 8m • 1 x Vacuum cup (1.5 bellows, 55 mm diameter) • 1 x End-Effector Coupling Kit • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB Stick

VAC-CB-UR-AIRPICK-KIT1-W	AirPick Wrist Connect Kit UR CB / 1 cup	• 1 x Pneumatic vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter)
		• 1 x I/O Coupling Kit including:
		  • 1 x I/O Coupling
		  • 1 x Micro-USB to USB cable
		  • 1 x USB Stick
		• 1 x Vacuum cup (1.5 bellows, 55 mm diameter)
		• 1 x Tubing 8mm - 8m

VAC-CB-UR-AIRPICK-KIT2	AirPick Kit for CB-Series UR / 2 Cups	• 1 x Pneumatic vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter) • 1 x Kit 2 Suction Cups System - two (2) cups (with two (2) of each: vacuum cups of 40mm and 55mm) • 1 x Tubing 8mm - 8m • 1 x End-Effector Coupling Kit • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB Stick

VAC-CB-UR-AIRPICK-KIT2-W	AirPick Wrist Connect Kit UR CB / 2 cups	• 1 x Pneumatic vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter)
		• 1 x I/O Coupling Kit including:
		  • 1 x I/O Coupling
		  • 1 x Micro-USB to USB cable
		  • 1 x USB Stick
		• 1 x Kit 2 Suction Cups System - two (2) cups (with two (2) of each: vacuum cups of 40mm and 55mm)
		• 1 x Tubing 8mm - 8m

VAC-CB-UR-AIRPICK-KIT4	AirPick Kit for CB-Series UR / 4 Cups	• 1 x Pneumatic vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter) • 1 x Kit 4 Suction Cups System- four (4) cups (with four (4) of each: vacuum cups of 40mm and 55mm) • 1 x Tubing 8mm - 8m • 1 x End-Effector Coupling Kit • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB Stick

VAC-CB-UR-AIRPICK-KIT4-W	AirPick Wrist Connect Kit UR CB / 4 cups	• 1 x Pneumatic vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter)
		• 1 x I/O Coupling Kit including:
		  • 1 x I/O Coupling
		  • 1 x Micro-USB to USB cable
		  • 1 x USB Stick
		• 1 x Kit 4 Suction Cups System- four (4) cups (with four (4) of each: vacuum cups of 40mm and 55mm)
		• 1 x Tubing 8mm - 8m

VAC-ES-UR-AIRPICK-KIT1	AirPick Kit for e-Series UR / 1 Cup	• 1 x Pneumatic vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter) • 1 x Tubing 8mm - 8m • 1 x Vacuum cup (1.5 bellows, 55 mm diameter) • 1 x End-Effector Coupling Kit for e-Series (no protector) • 1 x USB Stick

SKUs

VAC-ES-UR-AIRPICK-KIT2	AirPick Kit for e-Series UR / 2 Cups	• 1 x Pneumatic vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter) • 1 x Kit 2 Suction Cups System - two (2) cups (with two (2) of each: vacuum cups of 40mm and 55mm) • 1 x Tubing 8mm - 8m • 1 x End-Effector Coupling Kit for e-Series (no protector) • 1 x USB Stick
VAC-ES-UR-AIRPICK-KIT4	AirPick Kit for e-Series UR / 4 Cups	• 1 x Pneumatic vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter) • 1 x Kit 4 Suction Cups System- four (4) cups (with four (4) of each: vacuum cups of 40mm and 55mm) • 1 x Tubing 8mm - 8m • 1 x End-Effector Coupling Kit for e-Series (no protector) • 1 x USB Stick
VAC-GRP-AIRPICK	AIRPICK Basic Gripper Unit	• 1 x Pneumatic vacuum generator • 1 x Screw kit • 1 x Vacuum cup (1.5 bellows, 40 mm diameter)

DEMO

VAC-UR-KIT-AIRPICK-DEMO	AirPick Demo Kit for Partners on UR	• 1 x Pneumatic vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter) • 1 x Kit 4 Suction Cups System- four (4) cups (with four (4) of each: vacuum cups of 40mm and 55mm) • 1 x Vacuum Suction Cup plate for two (2) cups • 1 x Tubing 8mm - 8m • 1 x End-Effector Coupling Kit • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB stick • 1 x End-Effector Coupling Kit for e-Series (no protector) • 1 x I/O Coupling Kit for CB series

SKUs

VAC-CB-UR-EPICK-KIT1	EPick Kit for CB-Series for UR / 1 cup	• 1 x Electrical vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter) • 1 x Vacuum cup (1.5 bellows, 55 mm diameter) • 1 x End-Effector Coupling Kit • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB Stick

VAC-CB-UR-EPICK-KIT1-W	EPick Wrist Connect Kit UR CB / 1 cup	• 1 x Electrical vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter)
		• 1 x I/O Coupling Kit including:
		  • 1 x I/O Coupling
		  • 1 x Micro-USB to USB cable
		  • 1 x USB Stick
		• 1 x Vacuum cup (1.5 bellows, 55 mm diameter)

VAC-CB-UR-EPICK-KIT2	EPick Kit for CB-Series for UR / 2 cups	• 1 x Electrical vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter) • 1 x Kit 2 Suction Cups System - two (2) cups (with two (2) of each: vacuum cups of 40mm and 55mm) • 1 x End-Effector Coupling Kit • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB Stick

VAC-CB-UR-EPICK-KIT2-W	EPick Wrist Connect Kit UR CB /2 cups	• 1 x Electrical vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter)
		• 1 x I/O Coupling Kit including:
		  • 1 x I/O Coupling
		  • 1 x Micro-USB to USB cable
		  • 1 x USB Stick
		• 1 x Kit 2 Suction Cups System - two (2) cups (with two (2) of each: vacuum cups of 40mm and 55mm)

VAC-CB-UR-EPICK-KIT4	EPick Kit for UR CB-Series/ 4 cups	• 1 x Electrical vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter) • 1 x Kit 4 Suction Cups System- four (4) cups (with four (4) of each: vacuum cups of 40mm and 55mm) • 1 x End-Effector Coupling Kit • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB Stick

VAC-CB-UR-EPICK-KIT4-W	EPick Wrist Connect Kit UR CB / 4 cups	• 1 x Electrical vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter)
		• 1 x I/O Coupling Kit including:
		  • 1 x I/O Coupling
		  • 1 x Micro-USB to USB cable
		• 1 x USB Stick
		• 1 x Suction system for four (4) cups

VAC-ES-UR-EPICK-KIT1	EPick Kit for e-Series for UR / 1 cup	• 1 x Electrical vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter) • 1 x Vacuum cup (1.5 bellows, 55 mm diameter) • 1 x End-Effector Coupling Kit for e-Series • 1 x USB Stick
VAC-ES-UR-EPICK-KIT2	EPick Kit for e-Series for UR / 2 cups	• 1 x Electrical vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter) • 1 x Kit 2 Suction Cups System - two (2) cups (with two (2) of each: vacuum cups of 40mm and 55mm) • 1 x End-Effector Coupling Kit for e-Series • 1 x USB Stick

SKUs

VAC-ES-UR-EPICK-KIT4	EPick Kit for UR e-Series / 4 cups	• 1 x Electrical vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter) • 1 x Kit 4 Suction Cups System- four (4) cups (with four (4) of each: vacuum cups of 40mm and 55mm) • 1 x End-Effector Coupling Kit for e-Series • 1 x USB Stick
VAC-GRP-EPICK	EPICK Basic Gripper Unit	• 1 x Electrical vacuum generator • 1 x Screw kit • 1 x Vacuum cup (1.5 bellows, 40 mm diameter)

DEMO

VAC-UR-KIT-EPICK-DEMO	EPick Demo Kit - UR (E and CB Series)	• 1 x Electric vacuum generator (with one (1) vacuum cup 1.5 bellows, 40 mm diameter) • 1 x Kit 4 Suction Cups System- four (4) cups (with four (4) of each: vacuum cups of 40mm and 55mm) • 1 x Vacuum Suction Cup plate for two (2) cups • 1 x End-Effector Coupling Kit • 1 x 10 m Robotiq device cable • 1 x USB to RS485 adapter • 1 x USB stick • 1 x End-Effector Coupling Kit for e-Series (UR) • 1 x I/O Coupling Kit for CB series

COMBO

|		
CUR-READY-VACUUM	EPick 1cup Force Copilot Insights 1year	• 1 x Electrical vacuum generator • 1 x End effector coupling kit for e-Series • 1 x Vacuum cup (1.5 bellows, 55 mm diameter) • 1 x USB storage device for UR software package • 1 x Quickstart guide • 1 x Force Copilot dongle key • 1 x Yearly subscription to Insights (to be sent by email) • 1 x Lean Robotiq book Used for robots: • e-Series cobot from Universal Robot

FT 300-S
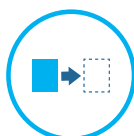**FORCE TORQUE SENSOR**

THE PIONEER OF *COBOT FORCE TORQUE SENSORS*

- Plug + Play for quick and easy integration
- Fully metallic hardware suited for industrial needs
- Wear-free sensing technology means no calibration needed, no production downtime
- High resolution and no loss of precision over time
- *Force Copilot* programming software included
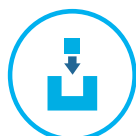
| Insertion | Pick & Place | Assembly | Quality Testing | Machine Tending | Finishing |

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					
Weight	440 g					
Communication protocol	Modbus RTU / Data stream (RS-485)					
IP Rating	IP65					

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

SKUs

FTS-300-S-KIT-001	FT 300-S Sensor Standard Kit	• 1 x FT 300-S sensor without mechanical coupling • 1 x Power and communication cable • 1 x RS-485 to USB converter
FTS-300-S-SEN-001	FT-300 S Basic Sensor Unit	• 1 x FT 300 S sensor alone (no coupling, no cables) • 1 x Screw kit
FTS-300-S-UR-KIT	FT 300-S Sensor kit for UR	• 1 x FT 300-S Basic Sensor Unit • 1 x Mechanical coupling for UR • 1 x 10m High-Flex Cable • 1 x USB to RS485 Adapter • 1 x USB Stick

DEMO

FTS-300-S-DEMO-KIT	FT 300-S Demo kit	• 1 x FT 300-S Basic Sensor Unit • 1 x Mechanical coupling for UR • 1 x 10m High-Flex Cable • 1 x USB to RS485 Adapter • 1 x USB Stick

COMBOS

AGC-FTS-S-UR-KIT-002	2F-85 Gripper and FT 300-S Sensor UR kit	• 1 x Gripper 2F-85 UR CB Kit • 1 x FT300-S Sensor kit for UR • 1 x 4 ports USB hub
AGC-FTS-S-UR-KIT-140	2F140 & FT 300-S Sensor kit for UR	• 1 x 2F-140 Gripper UR CB Kit • 1 x FT300-S Sensor kit for UR • 1 x 4 ports USB hub
AGS-FTS-S-UR-KIT	3F Gripper and FT300-S Sensor kit for UR	• 1 x 3F Gripper UR KIT • 1 x FTS300 Sensor kit for UR
CUR-AGC-085-RWC5-FTS-S	Combo of 2F85, Camera & FT300-S for UR	• 1 x 2F-85 Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x Wrist Camera kit for UR • 1 x FT300-S Sensor kit for UR
CUR-AGC-140-RWC5-FTS-S	Combo of 2F140, Camera & FT300-S for UR	• 1 x 2F-140 Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x Wrist Camera kit for UR • 1 x FT300-S Sensor kit for UR
HND-FTS-S-UR-KIT	Hand-E and FT 300 Sensor Kit for UR	• 1 x Hand-E Gripper Kit for UR CB • 1 x FT300 S Sensor kit for UR

WRIST CAMERA

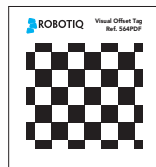## VISION MADE FOR UNIVERSAL ROBOTS

EASY TO USE

- Teach, edit, and run via the teach pendant
- Accelerate changeovers with Visual Offset
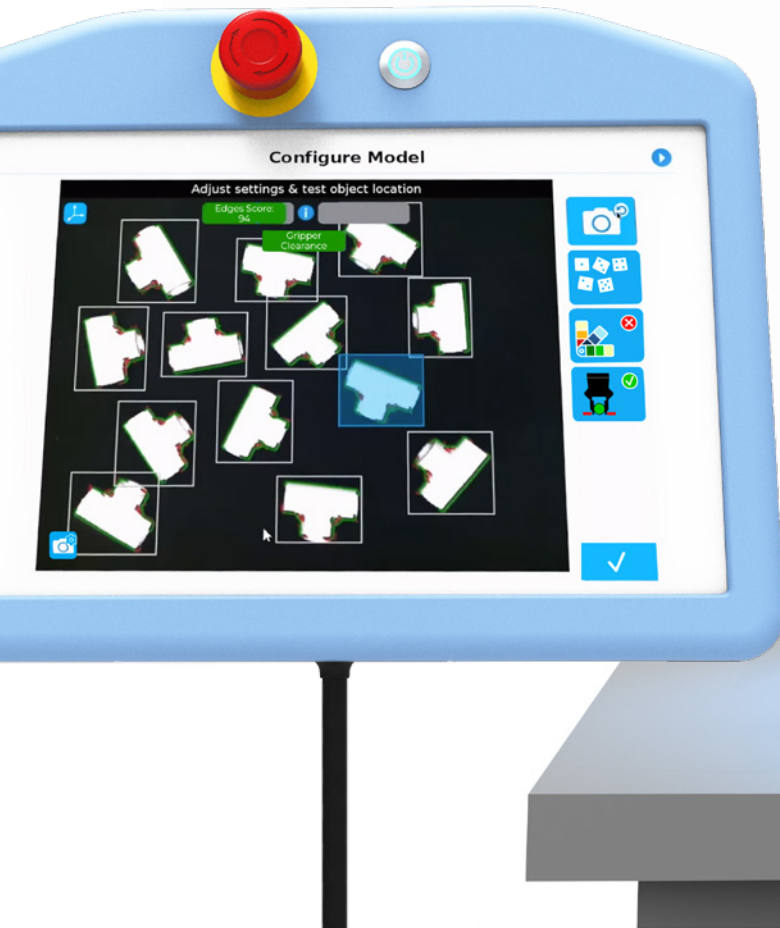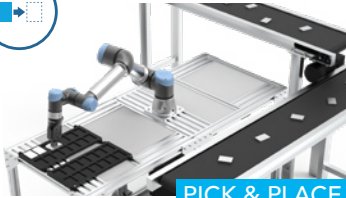- Operate with any expertise level

CAD IMPORT

DXF

VISUAL OFFSET

ROBOTIQ
Visual Offset Tag
Ref. 564PDF

CODE READING

Configure Model

Adjust settings & test object location

Edges Score: 94

Gripper Clearance

FAST & REPEATABLE PART DETECTION

Wrist Camera
CE
2016 S/N Q-0099
Made in Canada

FEATURES | BENEFITS

PICK & PLACE

FEATURES	BENEFITS
CAD Import	▶ Teach a model using your own CAD file
One-click workplane	▶ Create additional workplanes for your pick and place application with only one click
Auto-pick	▶ Automatically creates the picking action with a centered position

MACHINE TENDING

FEATURES	BENEFITS
Parametric part teaching	▶ Ideal for faster blank programming
Gripper clearance check	▶ Robust program minimizes production downtime
Visual offset	▶ Use the Robotiq tag to offset the robot program and accelerate changeovers

QUALITY TESTING

FEATURES	BENEFITS
1D and 2D barcode reading	▶ Perform real time quality control
Image saving	▶ Trace parts in a product assembly / Program picture parameters for a personalized visual traceability

ASSEMBLY

FEATURES	BENEFITS
Shape programming wizard	▶ Program complex parts in minutes
Assembly management	▶ Simultaneously manage different parts for flexible assembly sequences / Enables robot to work in structured or unstructured environments

SPECIFICATIONS

Sensor & Optics	5 MP color sensor, electrically adjustable focus, 70 mm to infinity
Integrated Lighting	Two units (diffused white LED)
Programmable Parameters	• CAD file import teaching (.dxf) • Automatic part teaching (user defined arbitrary shape) • Parametric part teaching (circle, ring, square, rectangle) • Edge editing, object color and clearance validation • 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)
Weight	160 g
Operating Temperature	0°C to 50°C
Camera Internal Image Buffer	DRAM memory

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

SKUs

|		
RWC5-CAM-001	Replacement Wrist Camera	• 1 x Robotiq Wrist Camera with 5m High Flex cable • 1x Screw kit
RWC5-UR-KIT	Wrist Camera Kit for UR	• 1 x Robotiq Wrist Camera unit • 1 x Universal Robot pattern tool plate • 1 x USB Stick • 1 x USB Software Licence Dongle • 1 x 4 ports USB hub • 1 x Calibration Board • 1 x Colored background • 1 x Wrist Camera Tags (5)

DEMO

RWC5-DEMO-KIT	Wrist Camera Demo Kit for UR	• 1 x Robotiq Wrist Camera unit • 1 x Universal Robot pattern tool plate • 1 x USB Stick • 1 x USB Software Licence Dongle • 1 x 4 ports USB hub • 1 x Calibration Board • 1 x Colored background • 1 x Wrist Camera Tags (5)

COMBOS

CUR-AGC-085-RWC5	Combo of 2F85 and Wrist Camera for UR	• 1 x 2F-85 Gripper Basic Unit (with flat rubber overmolded fingertips) • 1 x Wrist Camera kit for UR
CUR-AGC-085-RWC5-FTS-S	Combo of 2F85, Camera & FT300-S for UR	• 1 x 2F-85 Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x Wrist Camera kit for UR • 1 x FT300-S Sensor kit for UR
CUR-AGC-140-RWC5	Combo of 2F140 and Wrist Camera for UR	• 1 x 2F-140 Gripper Basic Unit (with flat rubber overmolded fingertips) • 1 x Wrist Camera kit for UR
CUR-AGC-140-RWC5-FTS-S	Combo of 2F140, Camera & FT300-S for UR	• 1 x 2F-140 Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x Wrist Camera kit for UR • 1 x FT300-S Sensor kit for UR
CUR-HND-RWC5	Hand-E & Wrist Camera Combo for UR	• 1 x Hand-E Gripper Basic Unit (with flat rubber overmolded fingertips) • 1 x Hand-E Fingertip Starting Kit • 1 x Wrist Camera kit for UR
CUR-HND-RWC5-FTS-S	Hand-E, Camera and FT300-S Combo for UR	• 1 x Hand-E Basic Gripper Unit (with flat rubber overmolded fingertips) • 1 x Wrist Camera kit for UR • 1 x FT300-S Sensor kit for UR

APPLICATION KITS
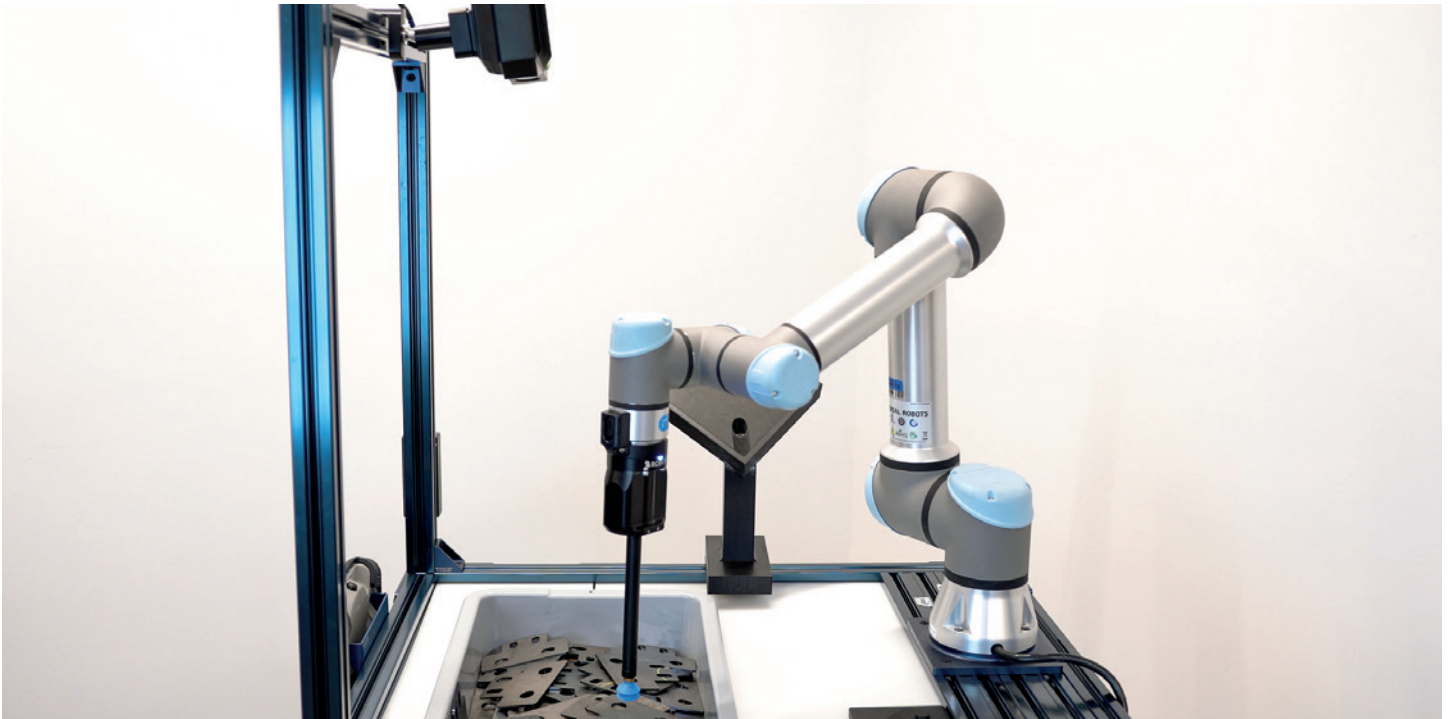
BIN PICKING *KIT*

## AUTOMATE REPETITIVE, TEDIOUS AND NON-ERGONOMIC TASKS

Aligned with our core value of democratizing automation, the Bin Picking Kit sets a clear path for locating, picking, handling, and placing parts.

It's not just about the combination of great products, it's also about the extensive knowledge we make available to you.

Try bin picking with a "Robotiq touch".

WHAT'S INCLUDED

- EPick with the extension kit
- Machine Tending Copilot
- Pickit M-HD camera
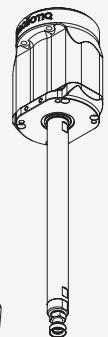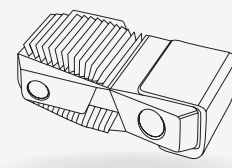
Bin picking module on **ROBOTIQ eLearning**

WHY **ROBOTIQ?**

EXPERIENCE
PROVEN PRODUCTS

Robotiq's EPick and Pickit's M-HD 3D camera.

E PICK
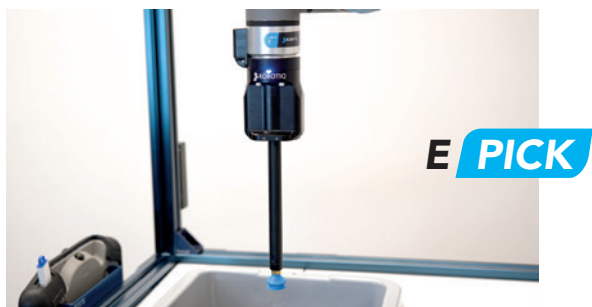
Pickit

eLEARNING **LESSONS**

Our eLearning lessons set clear expectations on feasibility and cell throughput.

EASY **INTEGRATION**

We provide guidance through every step involved in bin picking.
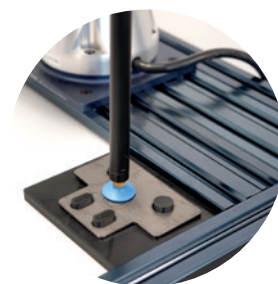
FAST **DEPLOYMENT**

The value we bring makes it an optimal solution to earn a quick ROI thanks to low costs and fast deployment speed.

START PRODUCTION FASTER

SPECIFICATIONS

Bin	
Maximum bin dimensions	800 x 600 x 450 mm *31.5 x 23.6 x 17.7 in*

Parts	
Minimum part dimensions	10 x 10 x 5 mm *0.4 x 0.4 x 0.2 in*
Minimum part thickness	1.5 mm *0.06 in*

Extension kit specifications	
Vacuum tube extension	from 20 to 60 cm *from 7.9 to 23.6 in*

SKUs

SOL-BP-ES-UR-KIT	Bin Picking Kit for UR eSeries	• 1 x Pick-it M-HD 3D Vision System • 1 x EPick kit for UR e-Series / One (1) cup • 1 x Machine Tending Copilot • 1 x Extension Kit for Vacuum Grippers

DEMO

BP-PICKIT-MHD-DEMO	Pick-it M-HD from Pick-It 3D - Demo Kit	• Pick-it M-HD 3D camera • Pick-it 2.0 industrial processor • Pick-it 2.0 software • M-HD/L-HD cable set • Ethernet cable, Green 5 m • Ethernet cable, Grey 5 m • Set of 3 region markers M-HD • Robot calibration plate M-HD • Pick-it quick start guide

SANDING *KIT*

AUTOMATE ONE OF THE TOUGHEST, DIRTIEST JOBS

- Save hours of programming
- Increase quality and productivity
- Reduce worker injuries
- The only complete sanding solution for Universal Robots

WHAT'S INCLUDED

- Finishing Colilot
- Orbital tool
- Braket
- Sanding Media
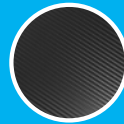- Quick Start Guide
- Air control Accessories

FINISHING C⊃PILOT

SUPPORTED MATERIALS

- WOOD
- PLASTIC
- METAL
- FIBERGLASS
- SOLID SURFACE
- CARBON FIBER

GENERATE A FINISHING PATH IN MINUTE

Program complex finishing trajectories by teaching less than 10 waypoints, even on complex, spherical surfaces. Apply constant force at each cycle.
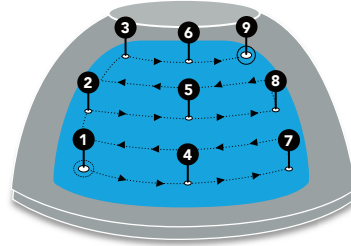
PRO TIPS

Robotiq is a pioneer in force control for collaborative robots. Our sanding **e-learning platform** includes our best lessons learned in the past 10 years. Use it to save hours of programming: elearning.robotiq.com.

VALIDATE PART LOCATION

The contact offset node uses reference points on the part to validate its position. If there's a slight change, the robot program automatically adapts all related parameters.

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	3/16"
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
Compatible sanders	Dynabrade 56854B, 56819B, 56830B, 56863B, 56844B, 57404B, 57814B

Control valve	
Air supply inlet/outlet	1/4" NPT thread

Sanding media kit	
Grits	60, 80, 120, 320, 400

SKUs

SAND-ES-UR-KIT	Sanding Kit for UR e-Series	• 1 x Air random orbital sander with Mounting kit onto UR robot • 1 x Finishing Copilot kit for UR e-Series • 1 x Air control accessories
SAND-FTS-S-CB-UR-KIT	Sanding Kit & FT 300-S for UR CB-Series	• 1 x Air random orbital sander with Mounting kit onto UR robot • 1 x FT 300 S Sensor kit for UR • 1 x Air control accessories.

DEMO

SAND-ES-UR-KIT-DEMO	Sanding Kit Demo for UR e-Series	• 1 x Dynabrade sander and mounting • 1 x Finishing Copilot software dongle license • 1 x Air control accessories

SURFACE FINISHING *KIT*

AUTOMATE ONE OF THE TOUGHEST, DIRTIEST JOBS

- Save hours of programming
- Increase quality and productivity
- Connect with the world's leading finishing tools

WHAT'S INCLUDED

- Finishing Copilot dongle license
- Mirka mechanical bracket
- Dynabrade mechanical bracket
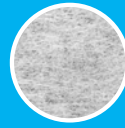- Valve accessories kit
- Robot program template

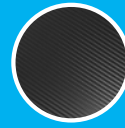| WOOD | PLASTIC | METAL | FIBERGLASS | SOLID SURFACE | CARBON FIBER |

EASY TO INTEGRATE, EASY TO USE

Finishing applications for collaborative robots require many hardware and software components to communicate together. Integration can take months… but not anymore! The surface finishing kit is the only hardware and software all-in-one solution for cobots.

PROGRAM IN MINUTES

Teach a finishing path on a flat surface out of only 4 waypoints and let the program adjust to different part sizes. Add custom weaving movements specific to your process in no time.
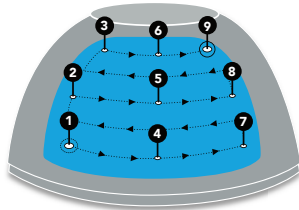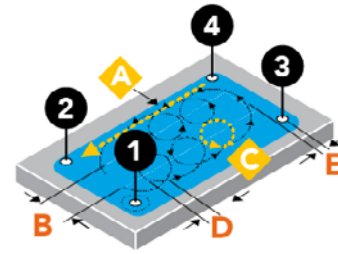
GENERATE COMPLEX PATHS

Program complex finishing trajectories by teaching fewer than 10 waypoints. Finishing Copilot generates a complete path and applies consistent force at each cycle, whether it's on a curved (6 waypoints), or spherical (9 waypoints) surface.

VALIDATE PART LOCATION

The contact offset node uses reference points on the part to validate its position. If there's a slight change, the robot program automatically adapts all related parameters.

SPECIFICATIONS

Pneumatic specifications	
Valve maximum operating pressure	8.3 Bars
Valve input port	1/4 NPT
Electrical Specifications	
Air supply inlet/outlet	24 V

Mirka bracket	
External enveloppe without sander	[77 89 37] mm
Added height	7 mm
Product weight without sander	0.221 kg
Dynabrade bracket	
External enveloppe without sander	[100 119 31] mm
Added height	9 mm
Product weight without sander	0.420 kg

MIRKA-SCREW-KIT	Mirka screw kit	• Screw kit to fix Mirka sander on UR robot
SAND-APL-ROS-002	Mounting bracket kit for Mirka sander	• 1 x Mechanical Bracket • 1 x Mirka Screw Kit
SCM-ES-UR-KIT	SCM Finishing kit for UR eSeries	• 1 x Finishing Copilot software dongle license • 2 x Mounting Kit for Mirka Orbital Sanders on UR • 1 x Valve accessories kit Used for robots: • Universal Robot eSeries: UR10e & UR16e Compatible with Mirka Sanders: MR-30, MR-34, MR-350, MR-350CV, MR-35SVG, MR-38CV, MR-5, MR-508, MR-525, MR-5V, MR-6, MR-608, MR-625, MR-6V, MROS-150, MR-150NV, MR-325CV, MROS-325NV, MROS-343CV, MROS-383CV, MROS-525CV, MROS-550CV, MROS-625CV, MROS-650CV, MRPS-300CV
SURF-ES-UR-KIT	Surface Finishing kit for UR e-Series	• 1 x Finishing Copilot software dongle license • 1 x Mounting kit for Dynabrade and Mirka Orbital Sanders • 1 x Air control accessories ***Refer to User Manual for sanders compatibilities
SURF-FTS-S-CB-UR-KIT	Surface Finishing kit for UR CB-Series	Surface Finishing kit & FT 300-S for UR CB Series Included: • 1 x FT 300 S Sensor kit for UR • 1 x Mounting kit for Dynabrade and Mirka Orbital Sanders • 1 x Air control accessories ***Refer to User Manual for sanders compatibilities

CNC MACHINE TENDING *KIT*

ROBOTIQ'S CNC MACHINE TENDING KIT IS YOUR FIRST STEP TOWARDS FAST AND SIMPLE AUTOMATION. THE KIT IS OPTIMIZED FOR CNC MACHINING OPERATIONS.

WHAT'S INCLUDED

- **Machine Tending Copilot** including Force Copilot and Contact Offset
- **Dual Hand-E grippers** with angled bracket (90°)
- **Fingertip starter kit** including a fingertip extender for larger parts
- **Robotiq Wrist Camera (optional)** including the new Visual Offset function
- **eLearning Course** on how to best use your kit

EVERYTHING YOU NEED IN ONE KIT

1 **IMPROVE CYCLE TIME WITH A DUAL HAND-E CONFIGURATION**

Increase productivity and improve your cycle time with a dual configuration, which lets you handle more objects at a time.

2 **MOVE YOUR ROBOT FROM ONE MACHINE TO ANOTHER FOR A FASTER ROI**

Machine Tending Copilot includes Force Copilot and Contact Offset, which lets you move your robot from one machine to another without having to reprogram it.

3 **INCREASE PRECISION AND RELIABILITY WITH FORCE COPILOT**

Force Copilot helps you execute repeatable part positioning within a CNC fixture.

4 **BUILT FOR INDUSTRIAL APPLICATIONS AND HARSH ENVIRONMENTS**

With an IP rating of 67, Hand-E and the Robotiq Wrist Camera can withstand harsh industrial conditions, such as chips, cutting oil, and coolant.

5 **DON'T WORRY ABOUT PART PRESENTATION**

Pick any part with an easy-to-use camera built for Universal Robots. The new Visual Offset function on the Robotiq Wrist Camera lets you locate a tray of parts without any complex part presentation systems.

SPECIFICATIONS

Dual Hand-E Setup	UR5	UR10
Total weight	2.40 kg	2.40 kg
Total weight with camera	2.56 kg	2.56 kg

Hand-E Adaptive Gripper		
Stroke	50 mm	50 mm
Grip force	20 to 185 N	20 to 185 N
IP rating	IP67	IP67

Wrist Camera		
Minimum field of view	10 x 7.5 cm	10 x 7.5 cm
Maximum field of view	64 x 48 cm	100 x 75 cm
Minimum part size (as percentage of field of view)	10%	10%
Maximum part size (as percentage of field of view)	60%	60%
Focus range	70 mm to infinite	70 mm to infinite
IP rating	IP67	IP67

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

CNC-ES-UR-KIT	CNC Machine Tending Kit for UR E-series	• 1 x Dual Hand-E e-Series kit • 1 x Machine Tending Copilot • 2 x Kit of two (2) Grooved Fingertips for 2F-85 Gripper-V4 • 2 x 2F-85 Fingertip conversion kit • 2 x Kit of two (2) Fingertip Extenders for Hand-E
CNC-RWC5-ES-UR-KIT	CNC MT Kit with Camera for UR E-series	• 1 x Dual Hand-E e-Series kit • 1 x Robotiq Wrist Camera Kit • 1 x Machine Tending Copilot • 2 x Hand-E Fingertips Starting Kit • 2 x Kit of two (2) Grooved Fingertips for 2F-85 Gripper-V4 • 2 x 2F-85 Fingertip conversion kit • 2 x Kit of two (2) Fingertip Extenders for Hand-E

EXTERNAL TOOL FINISHING *KIT*

AUTOMATE APPLICATIONS WITH AN EXTERNAL TOOL

- Save hours of programming
- Compensate for external tool wear
- Program with an intuitive interface
- Operate with any expertise level
- Automate one of the toughest, dirtiest jobs

## WHAT'S INCLUDED

- Finishing Copilot
- Hand-E adaptative grippers

COMPENSATE FOR TOOL WEAR

Finishing Copilot's contact offset node uses a point on the external tool as a reference to measure wear. With 0.2 mm precision, Contact Offset validates the tool's exact position at any moment. If there's a slight change, the robot program will automatically adjust all relevant parameters.

SET EXTERNAL TOOL CENTER POINT

Robotiq Finishing Copilot software, which is included in the kit, allows you to program an external TCP. It lets the robot know that the finishing tool is external to the robot, unlike most cobot applications. The finishing tasks is then processed with the robot bringing the part to the external TCP.
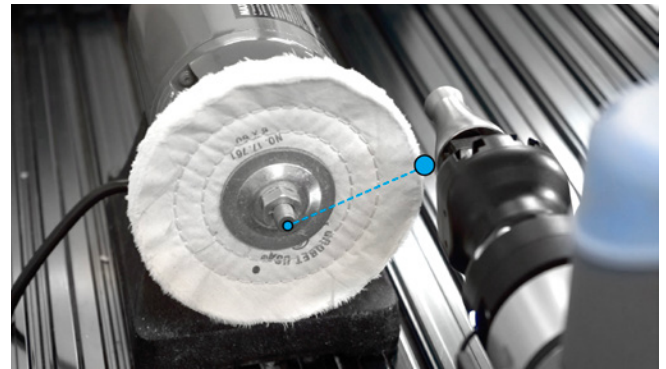
SPECIFICATIONS

Hand-E Adaptive Gripper	
Adjustable stroke	50 mm
Grip force	20 to 185 N
Payload	5 kg
Weight	1 kg
Position resolution	0.2 mm
Closing speed	20 to 150 mm/s
Ingress protection (IP) rating	IP 67

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

THE GRIPPER FOR COBOTS

Hand-E offers a strong grip, an intuitive interface and IP 67 rating

SKUs

ETF-ES-UR-KIT	External tool finishing kit UR e-Series	• 1 x Hand-E Gripper Kit for UR e-Series • 1 x Finishing Copilot kit for UR e-Series
ETF-FTS-S-CB-UR-KIT	Ext. Tool fin. Kit & FT 300-S for UR CB	• 1 x Hand-E Gripper and FT 300 Sensor Kit for UR • 1 x Quick Start Guide for External Tool Finishing for UR CB-Series

APPLICATION
SOLUTION
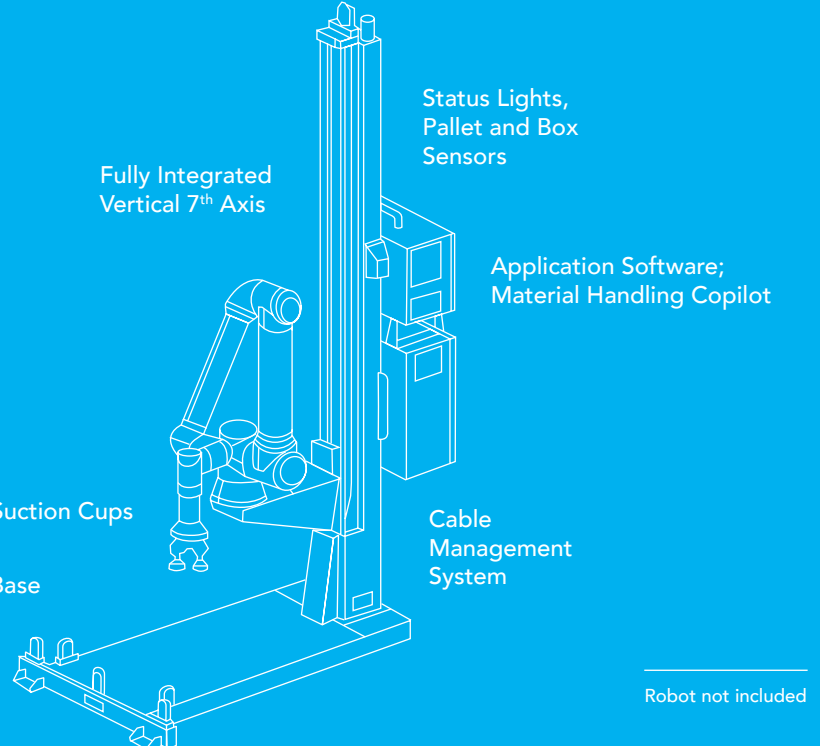
ROBOTIQ PALLETIZING *SOLUTION*

Simplicity Meets Flexibility

AUTOMATICALLY GENERATED AND OPTIMIZED SMOOTH MOTION	UP TO 13 BOXES PER MINUTE

EASE-OF-USE IS REDEFINED
WITH THE ROBOTIQ PALLETIZING SOLUTION

Open the box, and the hardware and software is already connected. **Plan your set-up** in just three steps directly on the robot control device.
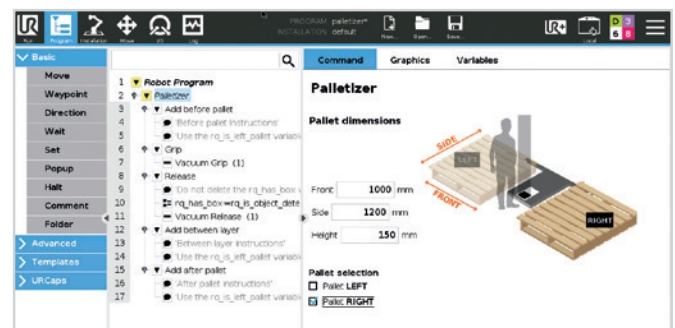
WHAT'S **IN THE BOX?**

Status Lights,
Pallet and Box
Sensors

Fully Integrated
Vertical 7th Axis

Application Software;
Material Handling Copilot

AirPick, Bracket, Suction Cups

Cable
Management
System

Robot Base

Robot not included

SET-UP YOUR APPLICATION
IN 3 EASY-STEPS

Enjoy a quick and 3 easy step set-up through our user-friendly platform.

Experience how seamless it is to use our application software called Material Handling Copilot. Generate and automatically optimize all trajectories and robot movements. Ready, set and go!

1   ENTER **BOX DIMENSIONS & WEIGHT**
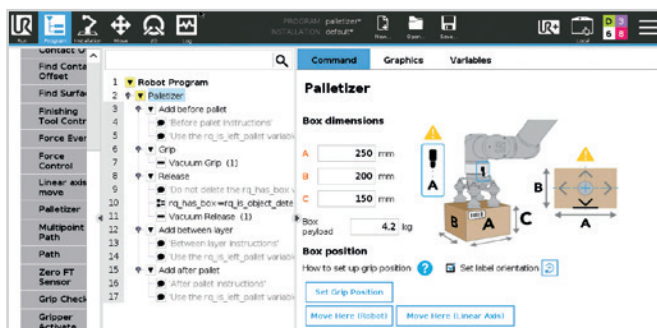
2   ENTER **PALLET DIMENSIONS**

3   SET **PALLET PATTERN**
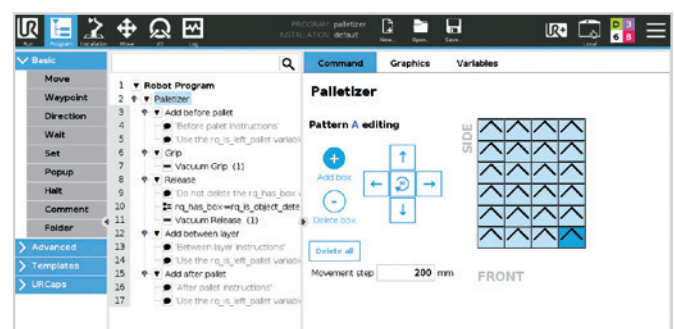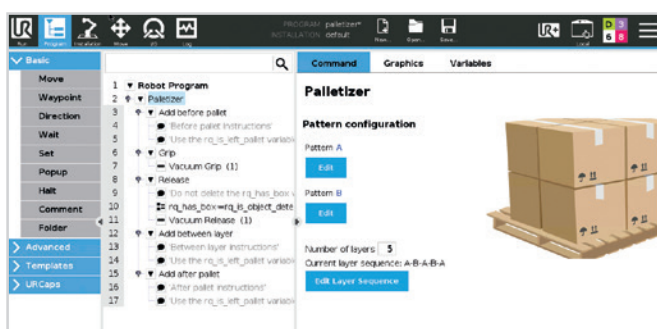
IT'S ALL CONNECTED

No need to design or program the connection between the robot controller and 7th axis or box sensor; we've done it.

All the elements included in the box are connected, so you don't have to spend any time on this.

HIGH PERFORMANCE

**Earn an ROI faster than with other cobot solutions, because of the high performance cycle time.**

What makes it perform so well? Optimized, synchronized motion control of the cobot and 7th axis. Plus, seamless movements also mean a longer life cycle for your cobot.

FITS EASILY WITHIN YOUR EXISTING FLOOR PLAN

The Robotiq Palletizing Solution fits easily within your existing floor plan, given its small footprint. No need to reorganize your floor layout around a central robot.

SAFETY FIRST

Because safety is crucial, we have built an environment for safe integration. We also support third-party safeguard devices.
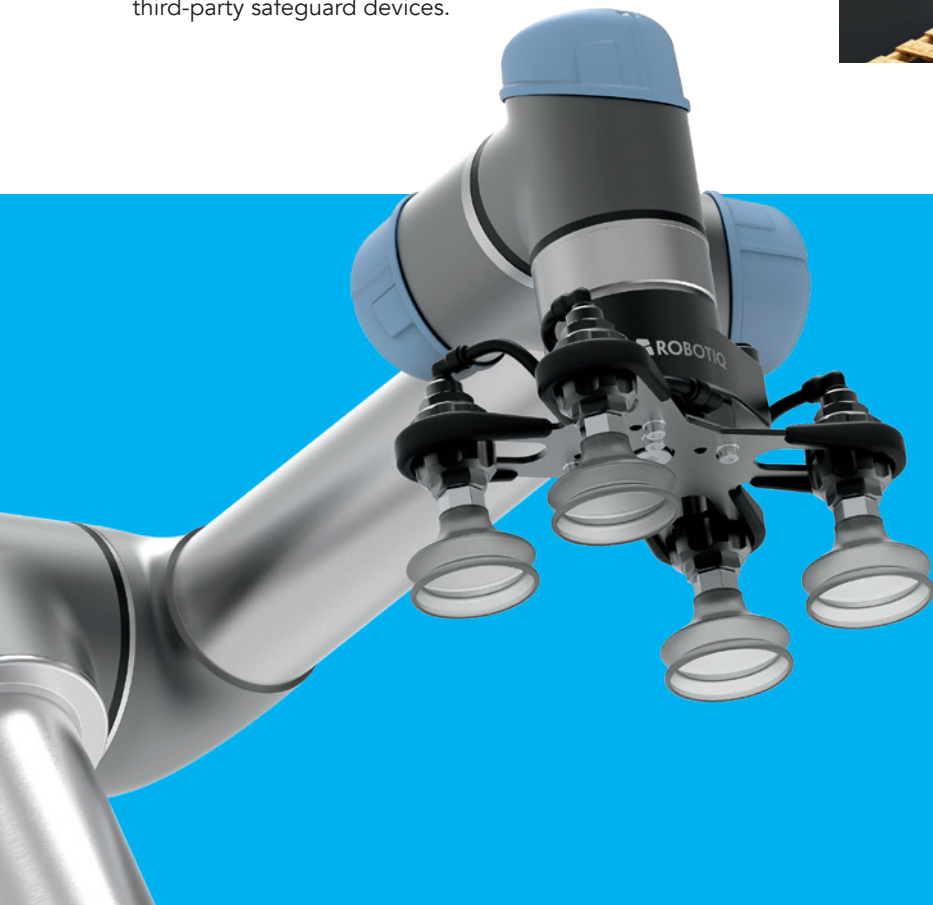
AIRPICK INCLUDED

With the Robotiq Palletizing Solution, you don't need to buy components from different sources. Our AirPick vacuum gripper is included.

- Industrial grade components
- Powerful vacuum flow
- Compact design
- Low noise
- Low maintenance

THE CONFIGURATOR

Still not sure our solution is for you?
Easily validate product fit for your situation
with the Configurator.

Validate your KPIs straight from the start.
Validate your throughput with your own data!

SPECIFICATIONS

Box	
Max Box weight	Up to 8 kg *Up to 17.5 lb*
Max Box throughput	Up to 13 boxes/min*
Min Box dimensions	50 x 50 x 50 mm *2 x 2 x 2 in*

*Depends on box weight, dimensions, surface, pallet dimensions and layouts.

Pallet	
Pallet dimensions - width	from 300 to 1219 mm *from 12 to 48 in*
Pallet dimensions - depth	from 300 to 1219 mm *from 12 to 48 in*
Pallet height (empty)	min 25mm *min 2 in*
Pallet height (filled)	max 2200mm *max 87 in*
Max number of box patterns	2

SOL-PAL-UR-1500	Robotiq Palletizing Sol 1.5 M	*NO GRIPPER INCLUDED IN THIS SKU*
		
		• 1 x 7th axis base including:
		   • 1 x Mechanically welded assembly
		   • 1 x Vertical axis 1500mm
		   • 1 x Motor
		   • 1 x Control Motion Box (PLC, Drive, safety relay)
		   • 4 x Pallet sensors
		   • 2 x Beacon Lights for status
		   • 1 x Cable management system
		• 1 x Box detection sensor
		• 1 x Material Handling Copilot software dongle license
		
		Used for robots:
		• UR10 CB-Series and e-Series

SOL-PAL-UR-VAC-1500	Robotiq Palletizing Sol 1.5 M / airpick	• 1 x 7th axis base including:
		   • 1 x Mechanically welded assembly
		   • 1 x Vertical axis 1500mm
		   • 1 x Motor
		   • 1 x Control Motion Box (PLC, Drive, safety relay)
		   • 4 x Pallet sensors
		   • 2 x Beacon Lights for status
		   • 1 x Cable management system
		• 1 x Box detection sensor
		• 1 x Extra reach bracket
		• 1 x Vacuum Gripper kit (Airpick, suctions cups, brackets for 2 or 4 cups)
		• 1 x Air tube 8mm
		• 1 x Gripper coupling kit
		• 1 x Material Handling Copilot software dongle license
		
		Used for robots:
		• UR10 CB-Series and e-Series

DEMO

| PAL-UR-VAC-1500-DEMO	Demo Robotiq Palletizing Solution 1.5m	DEMO OF ROBOTIQ PALLETIZING SOLUTION 1.5 M WITH AIRPICK VACUUM GRIPPER
		
		• 1 x 7th axis base including:
		   • 1 x Mechanically welded assembly
		   • 1 x Vertical axis 1500mm
		   • 1 x Motor
		   • 1 x Control Motion Box (PLC, Drive, safety relay)
		   • 4 x Pallet sensors
		   • 2 x Beacon Lights for status
		   • 1 x Cable management system
		• 1 x Box detection sensor
		• 1 x Extra reach bracket
		• 1 x Vacuum Gripper kit (Airpick, suctions cups, brackets for 2 or 4 cups)
		• 1 x Air tube 8mm
		• 1 x Gripper coupling kit
		• 1 x Material Handling Copilot software dongle license
		
		Used for robots:
		• UR10 CB-Series and e-Series

SOFTWARE

FORCE C⊃PILOT

FORCE CONTROL MADE EASY

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

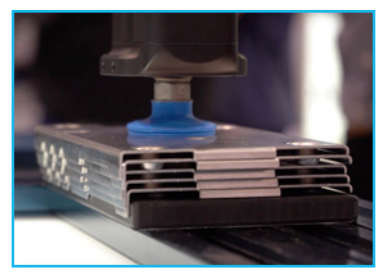FORCE COPILOT
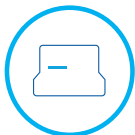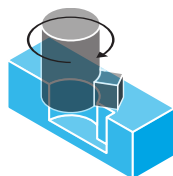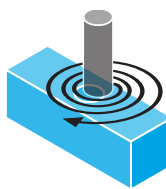
Machine Tending

Assembly
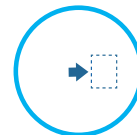
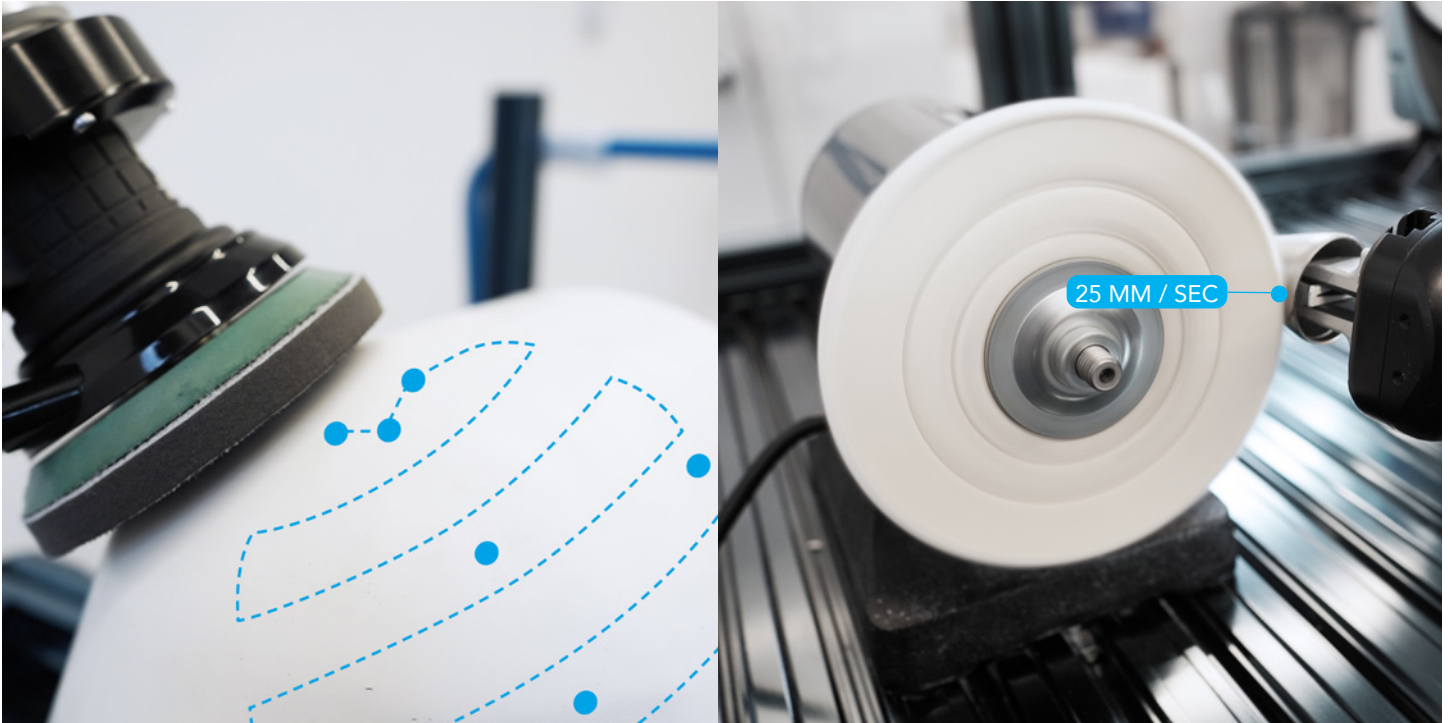## Pick and Place

PRECISELY DETECT CONTACTS

INDEX PARTS

ALIGN WITH HOLE
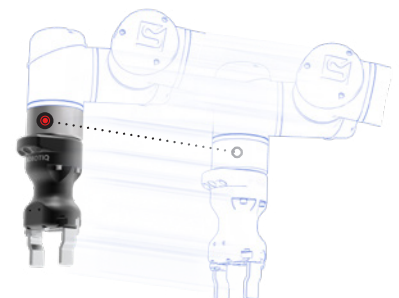
FOLLOW TRAJECTORIES

FINISHING C⟳PILOT

25 MM / SEC

A SOFTWARE MADE FOR FINISHING APPLICATIONS

- Save hours of programming
- Generate finishing trajectories in minutes
- Compensate for external tool wear
- Set an external tool center point
- Operate with any level of expertise

OTHER FEATURES

- Find a surface
- Perform various insertions
- Hand-guide your robot
- Follow complex trajectories
- Edit point-to-point trajectories
- Apply constant force and define the stiffness for each axis
- Reset sensor values to zero

PART TO PROCESS

## SET EXTERNAL TOOL CENTER POINT

Finishing Copilot lets you program an external TCP. This tells the robot that the finishing tool is external to the robot, unlike in most collaborative robot applications. The finishing task is then processed with the robot bringing the part to the external TCP.

COMPENSATE FOR TOOL WEAR

The contact offset node uses a point on the external tool as a reference to measure wear. Contact offset validates the tool's exact position anytime you wish. If there's a slight change, the robot program automatically adapts all related parameters.
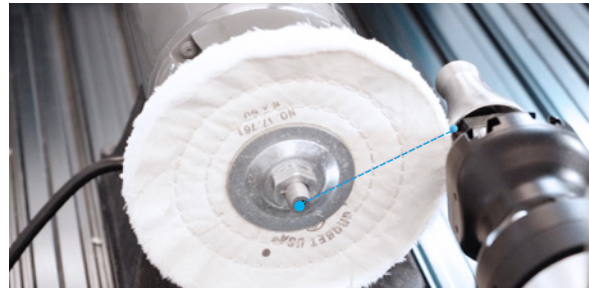
PROCESS TO PART
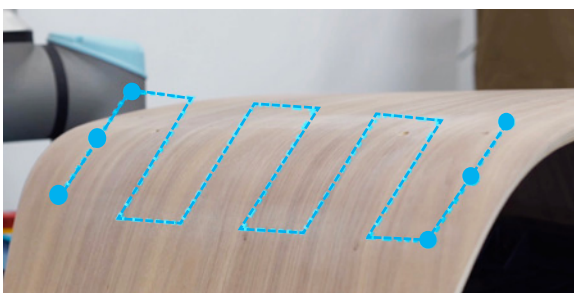
GENERATE A FINISHING PATH IN MINUTES

Program complex finishing trajectories by teaching fewer than 10 waypoints. Whether it's on a flat (4 waypoints), curved (6 waypoints), or spherical (9 waypoints) surface, Finishing Copilot generates a complete path and applies consistent force at each cycle.
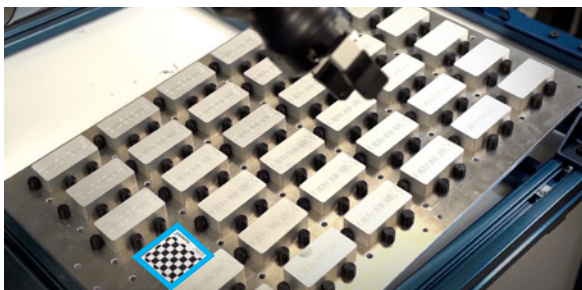
VALIDATE PART POSITION

The contact offset node uses reference points on the part to validate its position. If there's a slight change, the robot program automatically adapts all related parameters.

MACHINE TENDING C⮂PILOT

A SOFTWARE MADE FOR MACHINE TENDING
Compatible with only UR+ end of arm tooling

Locate your tray between cycles to ensure repeatable part picking.

Move your robot from a machine to another without having to reprogram it.

Validate your vise's exact position at any moment with a simple contact. The robot will automatically adapt all relevant parameters.

Find the exact surface on your fixture to execute repeatable part positionning.

OTHER FEATURES

- Hand-guide your robot
- Follow complex trajectories
- Edit point-to-point trajectories
- Apply constant force and define the stiffness for each axis
- Reset sensor values to zero

MACHINE TENDING
C⮂PILOT

SKUs

CP-FORCE-ES-UR-KIT	Force Copilot kit for UR e-Series	• 1 x Force Copilot License Dongle • 1 x Teach Pendant Stylus • 1 x UR Wrist Axis Sticker

DEMO

CP-FORCE-ES-UR-DEMO-KIT	Copilot Demo kit for UR e-Series	• 1 x Full Copilot Software Suites License Dongle • 1 x Teach Pendant Stylus • 1 x UR Wrist axis sticker

FINISHING C⊃PILOT

SKUs

CP-FIN-ES-UR-KIT	Finishing Copilot kit for UR e-Series	• 1 x Finishing Copilot License Dongle • 1 xTech Pendant Stylus • 1 x UR Wrist Axis Sticker

MACHINE TENDING C⊃PILOT

SKUs

CP-MT-ES-UR-KIT	Machine Tending Copilot for UR E-Series	• 1 x Machine Tending Copilot License Dongle • 1 x Teach Pendant Stylus • 1 x UR Wrist Axis Sticker

INSIGHTS

REMOTE ACCESS

- • **Manage your robot from anywhere**
- • **Get support from robotics expert**

MONITOR PRODUCTION

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

OPTIMIZE PERFORMANCE

- • **Track progress**
- • **Analyze trends**
- • **Download events log**

HOW IT WORKS

Robot/operational network   Insights cloud service   Insights user(s)

Insights IIOT Device

Insights mobile:
Alerts & reports

Insights web app:
remote access, monitoring & optimization
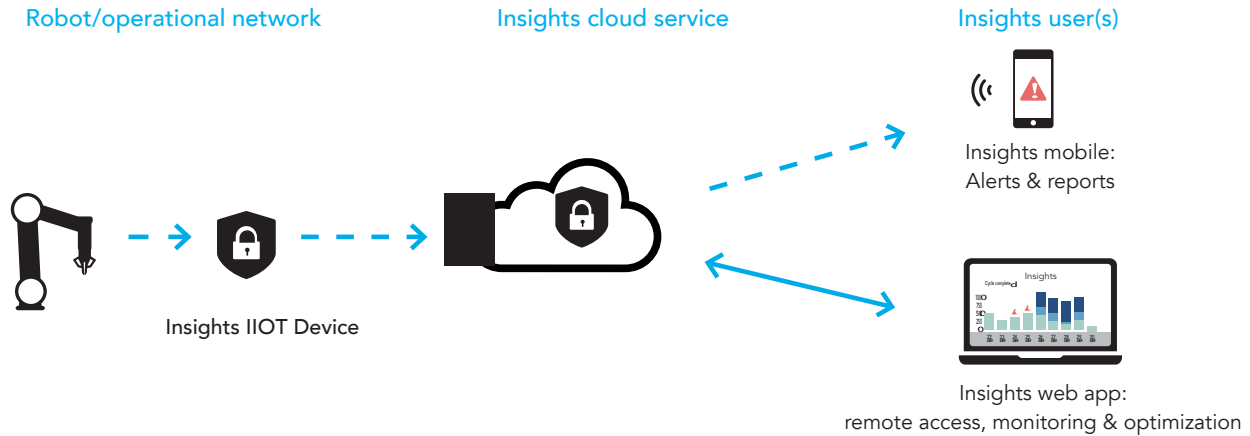
As easy as 1-2-3!

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	✓	✓
Backup and Robot Log Files	✓	✓
Preconfigured 4G LTE/Wi-Fi Router & antennas		✓
Prepaid international SIM card[2]		✓
Logitech C920 webcam		✓
Connection 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.

INS-CXN-AME	Insights Connection Kit Americas	• Preconfigured 4G LTE/ Wi-Fi Router & antennas (Americas) • USA power supply & 24V power stripped cables • Prepaid international SIM card • Logitec C920 Camera • Accessories: Ethernet cable, USB key, USB splitter, USB extension cable
INS-CXN-EUR	Insights Connection Kit Europe & Asia	• Preconfigured 4G LTE/ Wi-Fi Router & antennas (Europe & Asia) • USA power supply & 24V power stripped cables • Prepaid international SIM card • Logitec C920 Camera • Accessories: Ethernet cable, USB key, USB splitter, USB extension cable
INS-STK-AME-001	Insights Starter Kit Americas	Insights 1-year advanced subscription plan: • Remote Access • Real-time dashboard • Real-time robot alerts • Performance reports • Production Monitoring (KPI) • Diagnostics Tools • All software updates Insights connection kit Preconfigured 4G LTE/ Wi-Fi Router & antennas (Americas) • USA power supply & 24V power stripped cables • Prepaid international SIM card • Logitec C920 Camera • Accessories: Ethernet cable, USB key, USB splitter, USB extension cable
INS-STK-EUR-001	Insights Starter Kit Europe & Asia	Insights Starter Kit Europe & Asia Included: Insights 1-year advanced subscription plan • Remote Access • Real-time dashboard • Real-time robot alerts • Performance reports • Production Monitoring (KPI) • Diagnostics Tools • All software updates Note: Subscription plans may change without prior notice Insights connection kit • Preconfigured 4G LTE/ Wi-Fi Router & antennas (Europe & Asia) • USA power supply & 24V power stripped cables • Prepaid international SIM card • Logitec C920 Camera • Accessories: Ethernet cable, USB key, USB splitter, USB extension cable
INS-SUB-ADV-001	Insights One-Year Advanced Subscription	• Real-time robot overview • Email reports scheduler • Robot SMS alerts • Robot Remote Access • Production performance timeline & KPIs • Robot Digital I/Os • Downloadable Events Log • All software updates
INS-SUB-RENEW-001	Insights Renewal / Monthly Adjustment	• Remote Access • Real-time dashboard • Real-time robot alerts • Performance reports • Production Monitoring (KPI) • Diagnostics tools • All software updates Note: Subscription plans may change without prior notice

|		
INS-STK-AME-DEMO	Insights Partner Demo kit - Americas	Insights unlimited partner subscription plan • Remote Access • Real-time dashboard • Real-time robot alerts • Performance reports • Production Monitoring (KPI) • Diagnostics Tools • All software updates Note: Subscription plans may change without prior notice Insights connection kit • Preconfigured 4G LTE/ Wi-Fi Router & antennas (Americas) • USA power supply & 24V power stripped cables • Prepaid international SIM card • Logitec C920 Camera • Accessories: Ethernet cable, USB key, USB splitter, USB extension cable
INS-STK-EUR-DEMO	Insights Partner Demo kit - Europe&Asia	Insights Partner Demo kit Europe & Asia Included: • Insights unlimited partner subscription plan • Remote Access • Real-time dashboard • Real-time robot alerts • Performance reports • Production Monitoring (KPI) • Diagnostics Tools • All software updates Note: Subscription plans may change without prior notice Insights connection kit • Preconfigured 4G LTE/ Wi-Fi Router & antennas (Europe & Asia) • USA power supply & 24V power stripped cables • Prepaid international SIM card • Logitec C920 Camera • Accessories: Ethernet cable, USB key, USB splitter, USB extension cable

START PRODUCTION FASTER

IN THE WORLD

⬤ HEADQUARTERS

🔵 DISTRIBUTORS
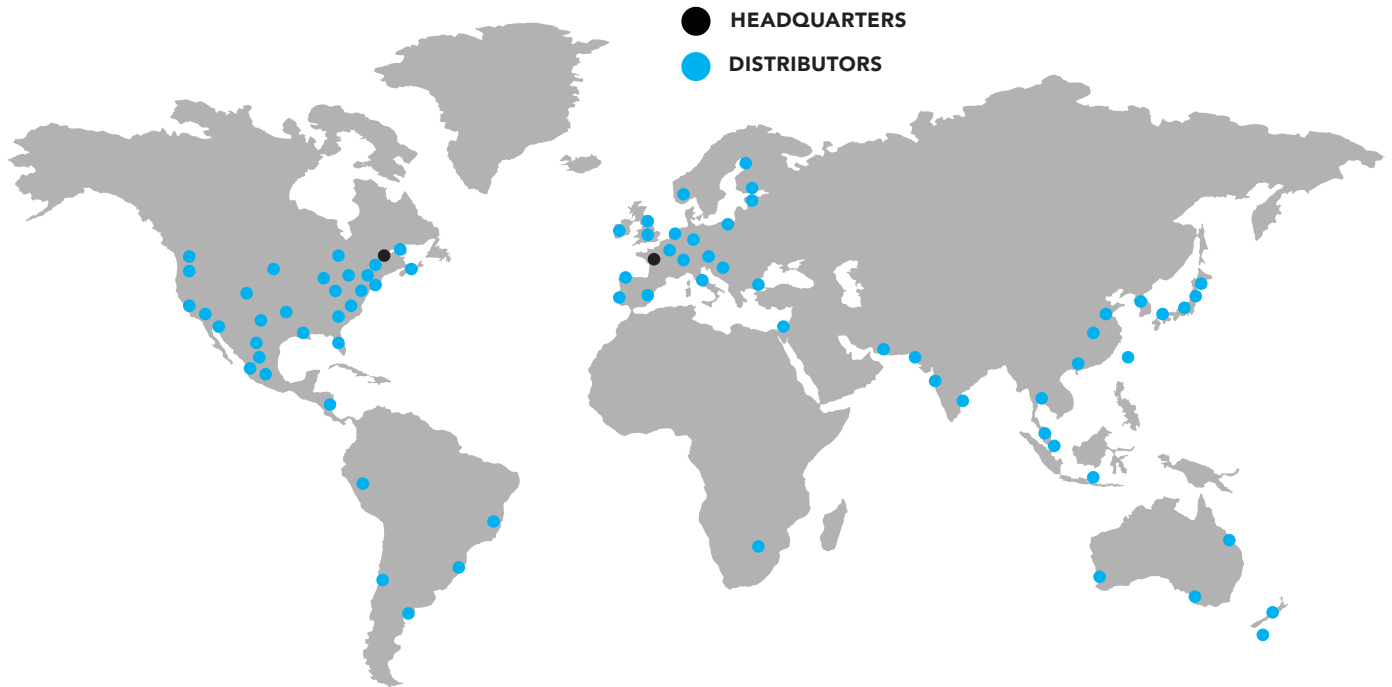
CONTACT US

AMERICAS

Sales
1-418-380-2788 ext. 2
iss@robotiq.com

Support
1-418-380-2788 ext. 3
support@robotiq.com

966, chemin Olivier, Suite 500,
Lévis, QC, G7A 2N1, Canada

EUROPE

Lyon, France
+33 4 81 13 27 10

13 avenue des Tulipiers
69500 Bron
France

LET'S KEEP IN TOUCH

For any questions concerning robotic and automated handling or if you want to learn more about the advantages of using flexible electric handling tools, contact us.

Join us on social media:

OUR TEAM BEHIND THE PRODUCTS

We work hard, have fun and love what we do!

The team at Robotiq is what makes the products stand out.

We believe in what we do, and we're constantly seeking to do more and better!

ROBOTIQ

robotiq.com

START PRODUCTION FASTER