

START PRODUCTION EASTED



PLUG + PLAY COMPONENTS

HAND-E



2F-140

3F









EPICK

AIRPICK

WRIST CAMERA

FORCE TORQUE SENSOR









SOFTWARE



APPLICATION KIT

SURFACE FINISHING KIT



INSIGHTS



APPLICATION SOLUTIONS

PALLETIZING SOLUTION

The Robotiq Palletizing Solution redefines ease of use for automated palletizing platforms. Create your program in minutes—directly on the teach pendant—to automatically generate all robot movements and trajectories.

Elevate your workforce with easy-to-use robot solutions that do the work for you.



SCREWDRIVING SOLUTION

The Robotiq Screwdriving Solution gets the work done right in simple small-screw assemblies.

Thanks to the 5-minute changeovers it enables, manufacturers can produce multiple products per assembly line.



MACHINE TENDING SOLUTION

Getting robots up and running is complex and can leave you feeling overwhelmed. With the Machine Tending Solution, we deliver peace of mind that your machines will always be running with accessible automation.

Increase your machine's capacity and reduce downtime with an easy-to-use Robotiq solution that does the work for you.



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



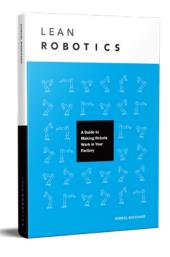
300+ Channel partners globally



LEAN ROBOTICS

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





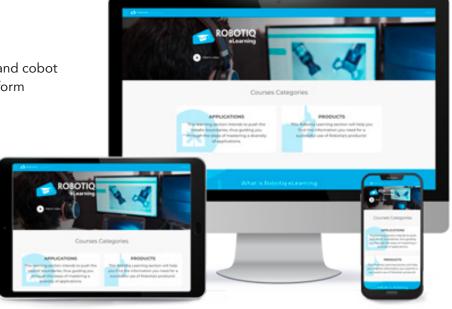


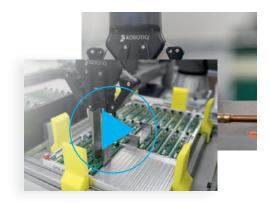
RESOURCES



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.

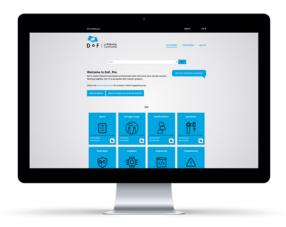
robotiq.com/resource-center/case-studies



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







Get technical insights from cobot experts

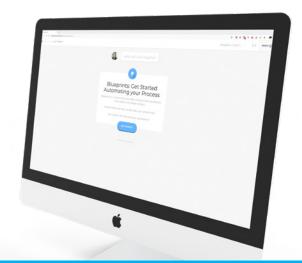
DoF is where industrial automation professionals share their know-how and get answers. Working together, DoF Pros accelerate their robotics projects.

dof.robotiq.com

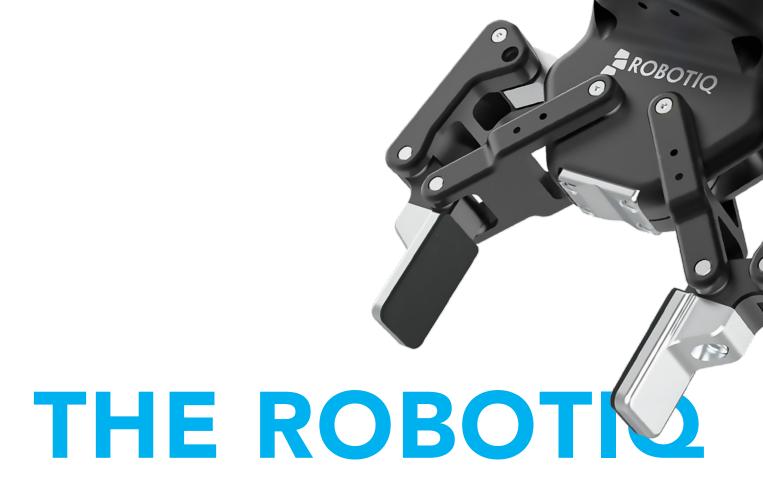
Ready to automate?

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.







- > 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



48H

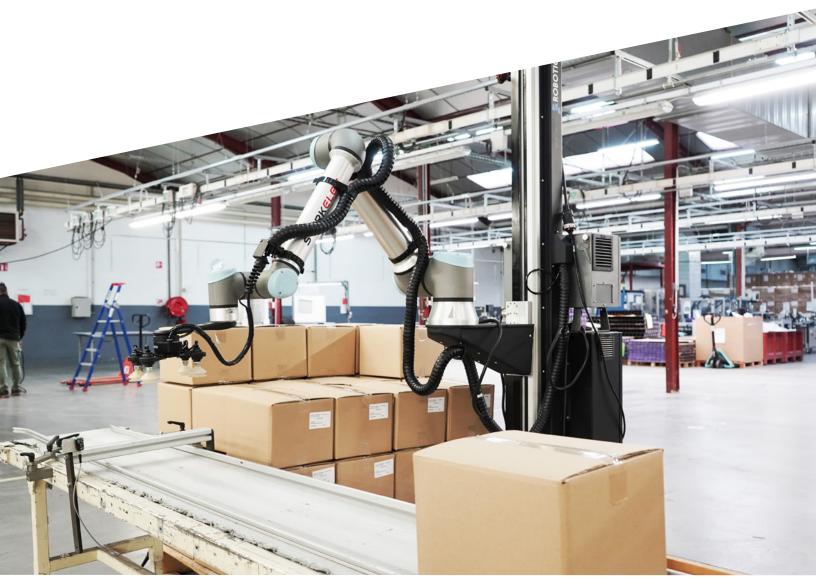
LEADTIME

A PPLICATION SOLUTIONS

PALLETIZING SOLUTION

Automation should simplify your life. Not make it more complicated.













IT'S ALL CONNECTED

No need to design or program the connection between the robot controller and hardware; 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? The Robotiq software generates optimized cobot motions based on the pallet layout. It also synchronizes motion control of the cobot and 7th axis for the AX Series. Plus, seamless movements 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've built an environment for safe integration. We also support third-party safeguard devices.

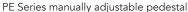


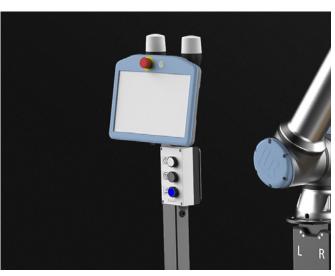




AX Series fully integrated vertical axis







PE Series teach pendant stand and operator box



WHAT'S THE DIFFERENCE?



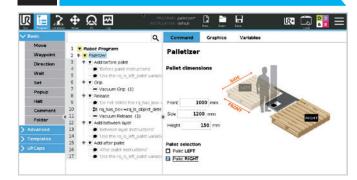
SET UP YOUR APPLICATION IN 3 EASY STEPS

All you need to do is create the pallet pattern to automatically generate and optimize all trajectories and robot movements.





2 ENTER PALLET DIMENSIONS



3 SET PALLET PATTERN





CONFIGURATOR

Still not sure our solution is for you? Easily validate product fit for your application.

Plus, find out whether the AX Series or PE Series is a better fit for you.

All you need:

- 1. Box dimensions, weight and orientation
- 2. Pallet dimensions
- 3. Pallet pattern

Validate KPIs and solution fit right from the start with your own data!



SPECIFICATIONS

Вох	AX Series	PE Series
Max payload with EOAT	Up to Up to	16 kg 35 lb
Max box throughput	Up 13 cycle	to es/min*
Min box dimensions $50 \times 50 \times 50 \text{ mm}$ $2 \times 2 \times 2 \text{ in.}$		
*Depending on box weight, dimensions, and surface, as well as pallet dimensions		

and layout.

Pallet	AX Series	PE Series
Pallet dimensions – width	from 300 to from 12	
Pallet dimensions – depth	from 300 to from 12	o .= .,
Pallet height (empty)	min 5 min	
Pallet height (filled)	max 2750 mm max 108 in.	max 1500 mm max 60 in.
Number of box patterns	Two	max

ROBOTIQ PALLETIZING SOLUTION

SKUs

SOL-PAL-UR-1500	ROBOTIQ PALLETIZING SOL AX-SERIES	**ROBOTIQ PALLETIZING SOLUTION AX-SERIES **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-PDSTL	ROBOTIQ PALLETIZING SOL PE-SERIES	ROBOTIQ PALLETIZING SOLUTION PEDESTAL PE-SERIES *NO GRIPPER INCLUDED IN THIS SKU* • 1 x pedestal base including: • 1 x Mechanically welded assembly • 1 x Control Box (PLC) • 4 x Pallet sensors • 2 x Status Lights with 10m cable • 1 x Teach pendant holder with operator buttons • 1 x Cable management system • 1 x Box detection sensor • 1 x Material Handling Copilot software dongle license Used for robots: • UR10, UR10e and UR16e
SOL-PAL-UR-VAC-1500	ROBOTIQ PALLETIZING SOL 1.5 M / AIRPICK	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

SKUs

ROBOTIQ PALLETIZING SOLUTION

SOL-PAL-UR-VAC-PDSTL

ROBOTIQ PALLETIZING SOL PDSTL / AIRPICK

ROBOTIO PALLETIZING SOLUTION PEDESTAL WITH AIRPICK VACUUM GRIPPER

- 1 x pedestal base including:
 - 1 x Mechanically welded assembly
 1 x Control Box (PLC)

 - 4 x Pallet sensors
 - 2 x Status Lights with 10m cable
 - 1 x Teach pendant holder with operator buttons
 - 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, UR10e and UR16e

DEMO

PAL-UR-VAC-1500-DEMO	DEMO ROBOTIQ PALLETIZING SOLUTION 1.5M	DEMO OF ROBOTIQ PALLETIZING SOLUTION 1.5 M WITH AIRPICK VACUUM GRIPPER AX-SERIES 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
PAL-UR-VAC-PDSTL-DEMO	DEMO ROBOTIQ PALLETIZING SOLUTION PDSTL	DEMO OF ROBOTIQ PALLETIZING SOLUTION PEDESTAL WITH AIRPICK VACUUM GRIPPER PE-SERIES 1 x pedestal base including: 1 x Mechanically welded assembly 1 x Control Box (PLC) 4 x Pallet sensors 2 x Status Lights with 10m cable 1 x Teach pendant holder with operator buttons 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, UR10e and UR16e

ROBOTIQ SCREWDRIVING SOLUTION

Elevate your workforce

- Consistent screwdriving around the clock.
- 5-min production changeovers.
- Complete solution designed for flexible automation of your screwdriving tasks.





Fewer injuries and a happier workforce

When you automate a screwdriving task, you keep employees from harm and can redirect them to value-added tasks. Elevate your workforce with a simple and easy-to-use automation solution.

CONSISTENT SCREWDRIVING AROUND THE CLOCK

- Free workers for higher-value tasks
- Reduce repetitive strain injuries
- Improve product quality
- Solve labor shortages







A single fastening solution to handle production changeovers in small-screw assembly

Deploy and master your robotic screwdriving application by adding Robotiq Screwdriving Solution to a UR cobot. So intuitive, no robotics experience is required.

Get a simple, cost-effective automation solution, and say hello to consistent screwdriving around the clock.

Designed for **flexible automation**

- Buy "off the shelf"
- Automate easily, without massive investment
- Intuitive to deploy and duplicate
- 5-min production changeovers

Screwdriving Fit Tool

https://links.robotiq.com/screwdrivingfittool

PROGRAM YOUR APPLICATION IN 2 EASY STEPS





Control the screwdriver directly from the UR Toolbar to use, test or set it. Seamlessly integrate the force sensing, vacuum, cobot, screwdriver, and screw feeder. Automatically apply error-proofing functions to improve productivity and quality.

SCREWDRIVER



SCREW FEEDER



ROBOTIO SCREWDRIVING SOLUTION

SPECIFICATIONS

Screwdriver SD-100	Min	Typical	Max
Torque range	0.5 Nm 4.5 in-lb	-	4 Nm 35 in-lb
Torque precision	-	±10% ¹	-
Screw diameter	M2.5 #3	-	M5 #10
Speed	1 RPM	-	500 RPM
Air consumption	-	65 L/min	-
Weight	1.5 kg 3.3 lb		
Dimensions	272 mm x 143.5 mm x 75 mm 10 3/4 x 5 5/8 x 3 in		
Warranty	2M cycles or 1 year under normal operation		
ESD-safe	Yes		

^{1.} Value at initial factory calibration. Torque precision typically increases when calibrated in operating conditions, depending on joint materials.

Screw Feeder SF-300	Min	Мах
Screw diameter	M2.5 #3	M5 #10
Screw length	6 mm¹ 1/4 in	25 mm 1 in
Screw head height	-	5 mm 3/16 in
Typical feed rate	-	3 s per screw
Screw chamber volume	300 сс	
Dimensions (W x D x H)	157 mm x 286 mm x 171 mm 6 3/16 x 11 ½ x 6 3/4 in	
Power supply	120/220V AC to 24V DC	
Weight	5.2 kg 11.4 lb	
Warranty	2M cycles or 1 year under normal operation	
ESD-safe	Ye	es

^{1.} For socket head screws, the minimum screw length is 10mm. Please validate with your Robotiq representative for shorter screws.

ROBOTIQ SCREWDRIVING SOLUTION

OVERVIEW

Feature	What is it?	Advantage
Error-proofing	Pre-programmed error-detection and recovery functions: • Screw presence detection. • Torque and screw position control. • OK/Not OK confirmation.	 Ensures correct torque is applied. Prevents screw transport failures. Prevents fastening failures. Saves programming time.
Vacuum transportation system	Integrated vacuum system that allows for reliable screw transport while ensuring maximal slender reach.	 Allows the robot to validate screw presence at all times. Allows the system to transport screws of any material. Requires no customization. Enables maximal reach into tight spaces.
One-SKU solution	With one SKU, you get the screwdriver, screw feeder, screwdriver bits and vacuum sleeves, screwdriving URCap, and the latest force-sensing technology.	Simplifies ordering.Simplifies tracking.
Dual sensors in screw feeder	Dual sensor indicates both screw ready and screw cleared from workspace.	 Prevent pick command from activating if a screw is not ready. Avoid collisions. Coordinate robot and screw feeder movements.
Automated communication between every components	Getting separate components (screw feeder, screwdriver, robot, and more) to communicate has never been easier.	 Simple programming to help you master your processes. Decrease deployment time.
Designed to reach tight spaces	We've designed a compact and lightweight screwdriver with flexible vacuum sleeves for optimum screwdriving.	Allows screwdriving in chamber holes.Allows screwdriving in tight spaces.
Open program tree	Robotiq Screwdriving URCap integrates the force sensing and force control functions to automatically program a pick and a screw, but the program tree is open for you to develop any advanced programming sequence.	 Adapt the solution to fit your unique application.

SERVICES

At Robotiq, we strive to free more human hands from repetitive tasks. To do so, we offer tools and services to empower you to deploy your project on your own and master your processes.

SCREWDRIVING PROOF OF CONCEPT

Our team of coaches is here to help you prove that our solution can work for your application, as well as avoid technical issues and simplify your introduction to the robot world.

Examples services:

- Demonstrate application fit
- Validate cycle time
- Demonstrate repeatability

REMOTE AND ONSITE TRAININGS FOR ROBOTIQ SCREWDRIVING SOLUTION

Our training aims to fast-track your introduction to the ever-growing collaborative robot industry.

- Intro to cobots
- Solution installation
- Solution operation
- Troubleshooting and maintenance
- Calibration
- Force Copilot for Assembly





ROBOTIO SCREWDRIVING SOLUTION

SOL-SDS-CB-D1F3-IH	Screwdriving Sol. CB-Series Imp. Hex	Robotiq Screwdriving Solution for CB-Series Robots with Imperial Hex Socket Bit Starting Kit Complete Solution that Includes: SD-100 Screwdriver Basic Kit SF-300 Screw Feeder Basic Kit FT 300-S Force Torque Sensor Kit Imperial Hex Socket Screwdriving Bit Starting Kit (5/64, 7/64, 3/32 in.)
SOL-SDS-CB-D1F3-MH	Screwdriving Sol. CB-Series Met. Hex	Robotiq Screwdriving Solution for CB-Series Robots with Metric Hex Socket Screwdriving Bit Starting Kit Complete Solution that Includes: SD-100 Screwdriver Basic Kit SF-300 Screw Feeder Basic Kit FT 300-S Force Torque Sensor Kit Metric Hex Socket Screwdriving Bit Starting Kit (2, 2.5, 3 mm)
SOL-SDS-CB-D1F3-P	Screwdriving Sol. CB-Series Phillips	Robotiq Screwdriving Solution for CB-Series Robots with Phillips Screwdriving Bit Starting Kit Complete Solution that Includes: SD-100 Screwdriver Basic Kit SF-300 Screw Feeder Basic Kit FT 300-S Force Torque Sensor Kit Phillips Screwdriving Bit Starting Kit (PH1 & PH2)
SOL-SDS-CB-D1F3-T	Screwdriving Sol. CB-Series Torx®	Robotiq Screwdriving Solution for CB-Series Robots with Torx® Screwdriving Bit Starting Kit Complete Solution that Includes: SD-100 Screwdriver Basic Kit SF-300 Screw Feeder Basic Kit FT 300-S Force Torque Sensor Kit Torx® Screwdriving Bit Starting Kit (T8, T10, T15, T20)
SOL-SDS-ES-D1F3-IH	Screwdriving Sol. e-Series Imp. Hex	Robotiq Screwdriving Solution for e-Series Robots with Imperial Hex Socket Bit Starting Kit Complete Solution that Includes: SD-100 Screwdriver Basic Kit SF-300 Screw Feeder Basic Kit Force Copilot Software Imperial Hex Socket Screwdriving Bit Sarting Kit (5/64, 7/64, 3/32 in.)
SOL-SDS-ES-D1F3-MH	Screwdriving Sol. e-Series Metric HS	Robotiq Screwdriving Solution for e-Series Robots with Metric Hex Socket Screwdriving Bit Starting Kit Complete Solution that Includes: SD-100 Screwdriver Basic Kit SF-300 Screw Feeder Basic Kit Force Copilot Metric Hex Socket Screwdriving Bit Starting Kit (2, 2.5, 3 mm)

ROBOTIO SCREWDRIVING SOLUTION

SKUs

SOL-SDS-ES-D1F3-P	Screwdriving Sol. e-Series Phillips	Robotiq Screwdriving Solution for e-Series Robots with Phillips Screwdriving Bit Starting Kit Complete Solution that Includes: SD-100 Screwdriver Basic Kit SF-300 Screw Feeder Basic Kit Force Copilot Software Phillips Screwdriving Bit Starting Kit (PH1 & PH2)
SOL-SDS-ES-D1F3-T	Screwdriving Sol. e-Series Torx®	Robotiq Screwdriving Solution for e-Series Robots with Torx® Screwdriving Bit Starting Kit Complete Solution that Includes: SD-100 Screwdriver Basic Kit SF-300 Screw Feeder Basic Kit Force Copilot Software Torx® Screwdriving Bit Starting Kit (T8, T10, T15, T20)
SOL-SDS-SD100	SD-100 Screwdriver Basic Kit	SD-100 Screwdriver Basic Kit Including:
SOL-SDS-SF300	SF-300 Screw Feeder Basic Kit	SF-300 Screw Feeder Basic Kit Including:

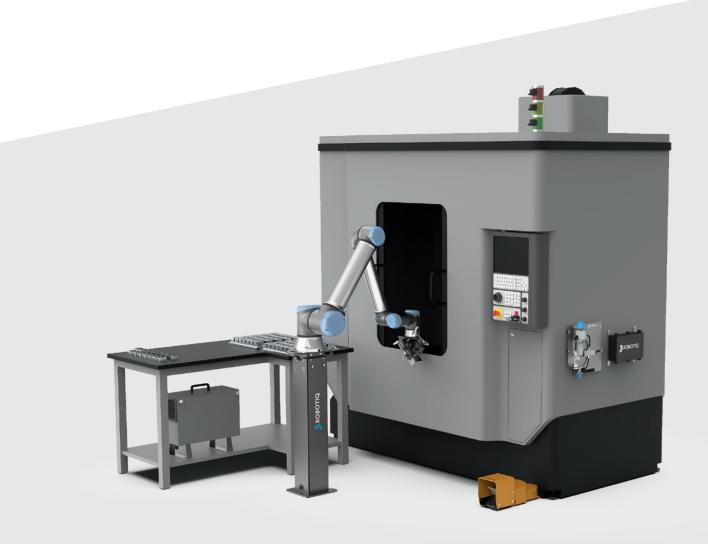
ROBOTIQ SCREWDRIVING SOLUTION

DEMO

SOL-SDS-ES-D1F3-DEMO	Robotiq Screwdriving Solution - Demo Kit	Demo Kit: Robotiq Screwdriving Solution for e-Series Robots Complete Solution that Includes:
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MACHINE TENDING SOLUTION

Automation should simplify your life. Not make it more complicated.



Keep chips flying

Getting robots up and running is complex and can leave you feeling overwhelmed. With the Machine Tending Solution, we deliver peace of mind that your machines will always keep running through accessible automation.





Increase your machine's capacity and reduce downtime

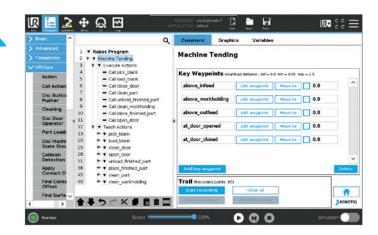
with an easy to use Robotiq solution that does the work for you.

Create programs 75% faster than with traditional programming, thanks to guidance on setting key waypoints and simple action menus.



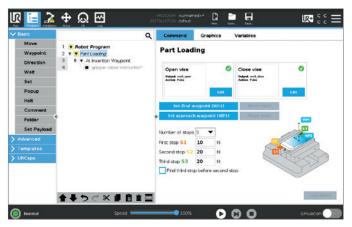
1 SET KEY WAYPOINTS

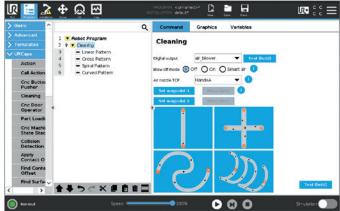
Once they're set, they become reference points for your operations.



2 REFINE OPERATIONS

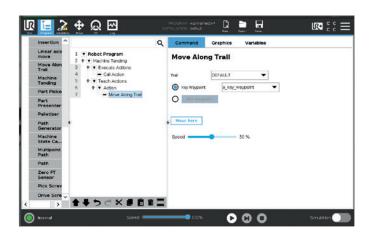
Use our action menus and adapt the solution to your needs.





3 CREATE YOUR SMART MOVES

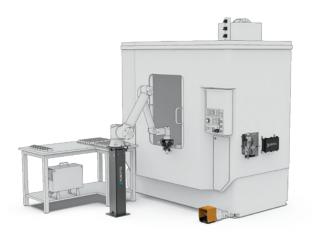
Machine Tending Copilot creates optimized movements between your key waypoints, finding the best path through the pre-defined flyzone and automatically avoiding collisions within the workcell.



IT COULDN'T BE EASIER!

Instead of hard-wiring the machine like with traditional automation, our communication modules are non-invasive and do not require installation by certified technicians

The solution can be deployed in 2–3 hours.



	Single gripper	Double gripper
System core	Machine Tending Copilot software Robotiq MT controller Pneumatic panel Button Activator Air nozzle kit	
Gripper	Hand-E adaptive gripper MT fingertips starting kit	2x Hand-E adaptive grippers 2x MT fingertips starting kit Dual bracket + New compact dual Hand-E bracket
Machine interface	Stacklight detector Footswitch activator (if lathe)	
Add-ons	•	Vrist Camera stable pedestal



Press buttons on the HMI



Monitor machine status



Control workholding

Robotiq Wrist Camera (Optional)



Ideal for faster blank programming and picking parts in an unstructured environment.

- 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

SKUs

ROBOTIO MACHINE TENDING SOLUTION

SOL-MT-ES-DUAL-HND	Machine Tending Solution-Dual Hand-E	 1 x Machine Tending Copilot for UR E-Series 1 x Button Activator 1 x Air Nozzle Kit 2 x Machine Tending Fingertips starting kit 1 x Robotiq Machine Tending Controller 1 x Pneumatic Panel 1 x Dual Hand-E Gripper kit 1 x Compact dual Hand-E bracket 1 x Installation Hardware 1 x Quick Start Guide Compatible with UR Eseries
SOL-MT-ES-SINGLE-HND	Machine Tending Solution-Single Hand-E	 1 x Machine Tending Copilot for UR E-Series 1 x Button Activator 1 x Air Nozzle Kit 1 x Machine Tending Fingertips starting kit 1 x Robotiq Machine Tending Controller 1 x Pneumatic Panel 1 x Hand-E Gripper 1 x Installation Hardware 1 x Quick Start Guide Compatible with UR Eseries

MACHINE INTERFACE

SOL-MT-FOOT-ACT	Footswitch activator	 1 x Footswitch Actuator 1 x 5m Pneumatic Tubing 1 x Pneumatic Valve kit 1 x Installation Hardware Requires a kit of the MACHINE TENDING SOLUTION family
SOL-MT-STK-LGHT	Stack light detector	 3 x Photo Sensors 3 x 2.5m Extension Cable 1 x Installation Hardware Requires a kit of the MACHINE TENDING SOLUTION family

ADD-ONS

ROBOTIO MACHINE TENDING SOLUTION

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)
SOL-MT-BUT-ACT-KIT	Button activator kit	 1 x Button Activator 1 x 5m Pneumatic Tubing 1 x Pneumatic Components Note: This kit is intended as a 2nd button activator when required
SOL-ROBOT-ADJ-PED	Robotiq adjustable pedestal	 1 x Adjustable Pedestal 1 x Installation Hardware Compatible with UR5, UR5e, UR10, UR10e, UR16e
SOL-ROBOT-CBL-MNGT-UR5 SOL-ROBOT-CBL-MNGT-UR10 SOL-ROBOT-CBL-MNGT-UR16	Cable management sleeve kit for universal robots	 2 x Flexible Wrap-Around Robotic Cable Management. Compatible with UR5, UR5e, UR10, UR10e, UR16e

DEMO

SOL-MT-DEMO-KIT	Machine Tending Solution Demo Kit	 1 x Demo Copilot for UR E-Series 1 x Button Activator 1 x Footswitch Activator 1 x Air Nozzle Kit 1 x Stack Light Detector 2 x Machine Tending Fingertips starter kit 1 x Robotiq Machine Tending Controller 1 x Pneumatic Panel 1 x Compact Dual Hand-E Bracket 1 x Dual Adapter Plate 1 x M8 Splitter Dual Coupling UR e-Series
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PLUG + PLAY COMPONENTS





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









ding 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)	0.2 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)
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
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

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 End-Effector Coupling Kit for UR e-Series 1 x I/O Coupling Kit for CB series
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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 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 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 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

SI ECII ICAIIOI15		
	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 us	ser manual at support.robotiq.com for official specification	ns.

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
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
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
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
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
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

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 I/O Coupling Kit for UR CB series 1 x 2F-85 Gripper collaborative protector kit
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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
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 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 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 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 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









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.		

3-FINGER ROBOT GRIPPERS

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
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DEMO

СОМВО

AGS-FTS-S-UR-KIT	3F Gripper and FT300-S Sensor kit for UR	1 x 3F Gripper UR KIT
AG5-F15-5-UR-KII	or dripper and F1500-5 Sensor kit for UK	 1 x FTS300 Sensor kit for UR







SMOOTH HANDLING FOR YOUR APPLICATIONS







Assembly



Machine Tending



Palletizing



Packaging

SPECIFICATIONS

	E Pick	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



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



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



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





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
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 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
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 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
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 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)



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)
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)
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 AirPick Demo Kit for Partners on UR (with 4 1 x Kit (with f 1 x Va 1 x Tul 1 x En 1 x 10 1 x US 1 x En	eumatic vacuum generator one (1) vacuum cup 1.5 bellows, 40 mm diameter) 4 Suction Cups System- four (4) cups our (4) of each: vacuum cups of 40mm and 55mm) cuum Suction Cup plate for two (2) cups oing 8mm - 8m d-Effector Coupling Kit m Robotiq device cable B to RS485 adapter d-Effector Coupling Kit for e-Series (no protector) O Coupling Kit for CB series
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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
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 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
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 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
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 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
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



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
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 End-Effector Coupling Kit for e-Series (UR) 1 x I/O Coupling Kit for CB series
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сомво

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 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





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						
SPECIFICATIONS	FX	FY	FZ	MX	MY	MZ
Measuring range		± 300 N			± 30 Nm	
Overload capacity		500%			500%	
Signal noise		0.1 N		0.00	5 Nm	0.003 Nm
Recommended threshold for contact detection		1 N		0.02	2 Nm	0.01 Nm
Tool deflection at maximum measurable load		0.01 mm		0.17	deg	0.09 deg
External noise sensitivity			lmr	mune		
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.



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

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
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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 KIT1 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



EASY TO USE

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

CAD IMPORT

VISUAL OFFSET

CODE READING











FAST & REPEATABLE PART DETECTION



APPLICATIONS



FEATURES

CAD Import

One-click workplane

Auto-pick

BENEFITS

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



Parametric part teaching Gripper clearance check

Visual offset

- Ideal for faster blank programming
- Robust program minimizes production downtime
- Use the Robotiq tag to offset the robot program and accelerate changeovers



1D and 2D barcode reading Image saving

- Perform real time quality control
- Trace parts in a product assembly
 Program picture parameters for a personalized visual traceability



Shape programming wizard

Assembly management

- Program complex parts in minutes
- 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.



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 1x 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 Software Licence Dongle 1 x 4 ports USB hub 1 x Calibration Board 1 x Colored background 1 x Wrist Camera Tags (5)
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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

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



SUPPORTED MATERIALS













WOOD

PLASTIC

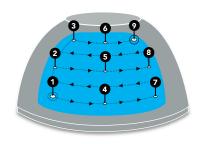
FIBERGLASS

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

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
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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



SUPPORTED MATERIALS













WOOD

FIBERGLASS

SOLID SURFACE

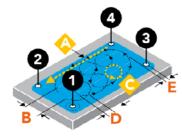
CARBON FIBER

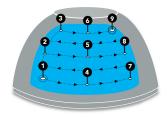
EASY TO INTEGRATE, EASY TO USE

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

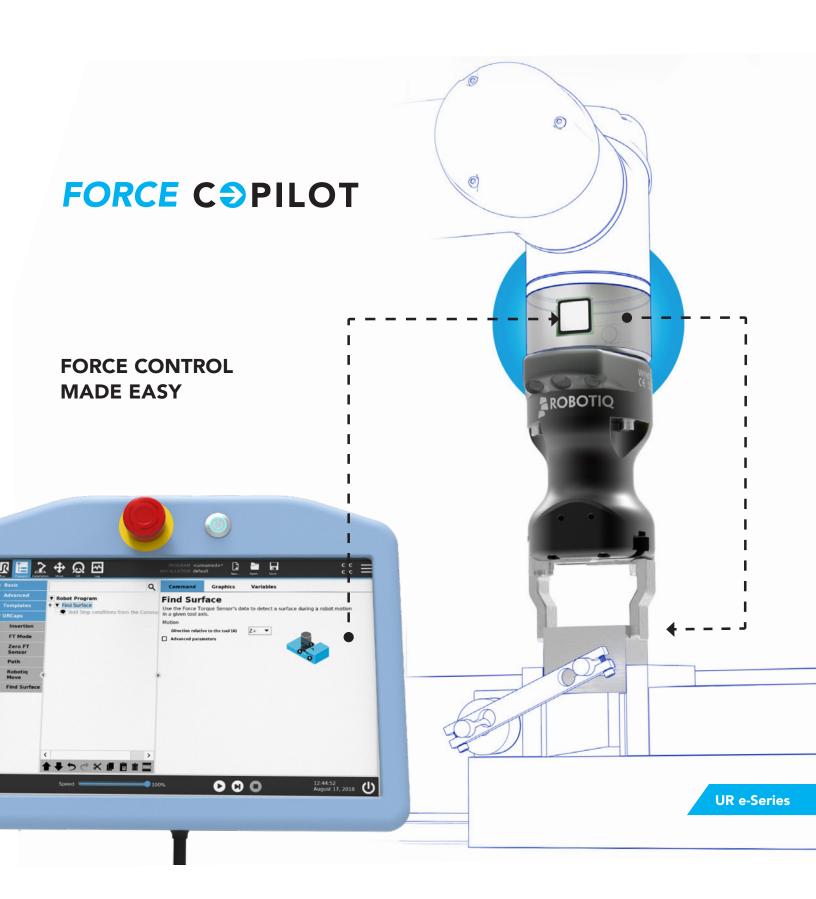
Mirka bracket	
External enveloppe without sander	[77 89 37] mm
Added height	7 mm
Product weight without sander	0.221 kg
Dynabrade bracket	
External enveloppe without sander	[100 119 31] mm
Added height	9 mm
Product weight without sander	0.420 kg

SURFACE FINISHING KIT

SKUs

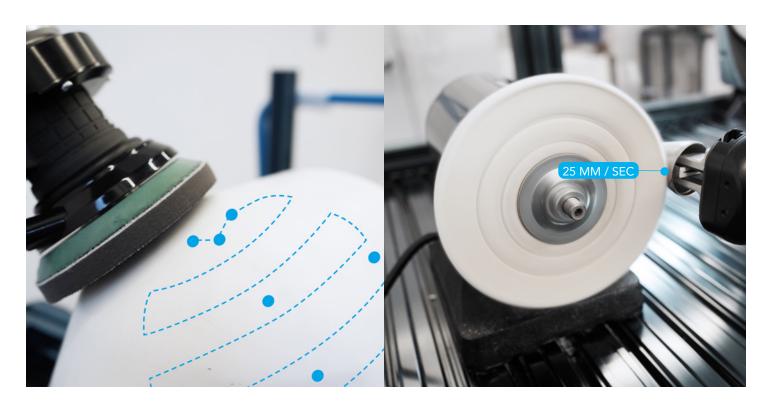
MIRKA-SCREW-KIT	Mirka screw kit	Screw kit to fix Mirka sander on UR robot
SAND-APL-ROS-002	Mounting bracket kit for Mirka sander	1 x Mechanical Bracket1 x Mirka Screw Kit
SURF-ES-UR-KIT	Surface Finishing kit for UR e-Series	 1 x Finishing Copilot software dongle license 1 x Mounting kit for Dynabrade 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

SOFTWARE





FINISHING COPILOT



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

AUTOMATE FINISHING TASKS THE EASY WAY





COMPENSATE FOR TOOL WEAR

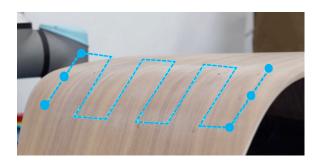
The contact offset node uses a point on the external tool as a reference to measure wear. Contact offset validates the tool's exact position anytime you wish. If there's a slight change, the robot program automatically adapts all related parameters.

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.







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.

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.



MACHINE TENDING COPILOT

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



Locate your tray between cycles to ensure repeatable part picking.



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



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



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



FORCE COPILOT

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
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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
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SKUs

FINISHING COPILOT

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
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SKUs

MACHINE TENDING COPILOT

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
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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

TAKE PRODUCTION TO THE NEXT LEVEL

HOW IT WORKS



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.

Contact your local Robotiq distributor for pricing.

Subscription plans may change without prior notice.

 $^{^{2}}$ Equivalent to a 1-month period.

INS-CXN-AME Insights Connection Kit Americas Insights Connection Kit Americas Insights Connection Kit Americas Insights Connection Kit Europe & Asia Insights 1-year advanced subscription plan: Insights 1-year advanced subscri			
INS-CXN-EUR Insights Connection Kit Europe & Asia Insights 1-year advanced subscription plan: Insights 1-year a	INS-CXN-AME	_	 USA power supply & 24V power stripped cables Prepaid international SIM card Logitec C920 Camera Accessories: Ethernet cable, USB key, USB splitter,
Remote Access Real-time dashboard Real-time robot alerts Performance reports Production Monitoring (KPI) Diagnostics Tools Insights Starter Kit Americas Americas	INS-CXN-EUR		 (Europe & Asia) USA power supply & 24V power stripped cables Prepaid international SIM card Logitec C920 Camera Accessories: Ethernet cable, USB key, USB splitter,
	INS-STK-AME-001	_	 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,
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-STK-EUR-001	_	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,
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-ADV-001		 Email reports scheduler Robot SMS alerts Robot Remote Access Production performance timeline & KPIs Robot Digital I/Os Downloadable Events Log
INS-SUB-RENEW-001 Insights Renewal / Monthly Adjustment 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-SUB-RENEW-001		 Real-time dashboard Real-time robot alerts Performance reports Production Monitoring (KPI) Diagnostics tools All software updates

DEMOS

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



CONTACT US

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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:











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!**



START PRODUCTION EACTER