

Flexxbotics

FREE YOUR ROBOT

— **Flexx** **CONNECT** —

REFERENCE | BEACON



UNIVERSAL ROBOTS+
Certified

1 (877) 456 1576 | 12 CHANNEL STREET, BOSTON, MA 02110 | FLEXXBOTICS.COM

Free your robot with Flexxbotic's dynamic automation platform. Flexxbotics aims to optimize collaborative robot changeover through intuitive software/hardware robot productivity tools

Your operators can adapt to changing demand... why should robots be any different. Our experience with hundreds of installs in three continents has shown us manufacturers want more out of their cobots. At Flexxbotics, we are here to deliver to just that!



Flexx Reference

Makes any UR flexible with a
6-degree lockout



Flexx Beacon

Adds connectivity & autonomous
process to mobility

Flexx Connect can help you...



**Redeploy Robots
on Multiple Jobs**



**Increase Robot
Utilization**



**Enable Any Operator
to Move Your Robot**



**Achieve Aggressive
Robot ROI's**

Flexx REFERENCE

The Flexx Reference is a robotic software/hardware 6-degree offset tool that makes any Universal Robot flexible.

Eliminate the need to tirelessly update robot waypoints/moves any time your robotic work cell shifts. The intuitive interface and easy locking mechanism allows any operator to conduct a robot redeployment.

Flexx Reference can help you...



Reduce Redeployment Complexity



Achieve Higher Robot Utilization



Reduce Robot Payback Periods



Focus on New Automation Projects

How does It work?

1. SET YOUR FLEXX FEATURE

To set your first Flexx Feature (reference point) simply Free-Drive the UR into the Flexx Lockout Assembly (6-degree mechanical mating system).

2. CAPTURE THE COORDINATES

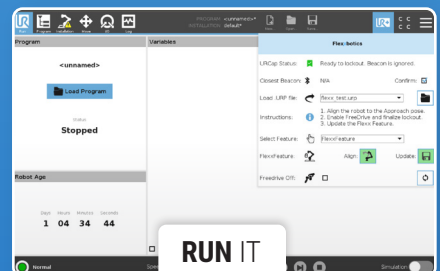
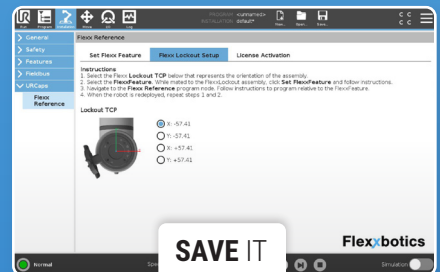
While in the Flexx Lockout, capture the coordinates with the click of a button in the Flexx Reference URCap Plugin. The Flexx Feature is automatically populated in the Flexx Reference Node, which is inserted into your program.

3. UPDATE THE PROGRAM

Program the robot as normal then click update program and all of your waypoints and moves will be converted relative to the captured Flexx Feature. The Flexx Feature is forever remembered in space and in your program.

4. RECAPTURE THE FLEXX FEATURE

The user is now allowed the flexibility to move the robot or work station without the need of reprogramming or docking stations, simply re-capture the Flexx Feature and start the program.



Flexx Reference is great for...



**Redeploying
Your Robot**



**Transitioning Between
Automated & Manual
Processes**

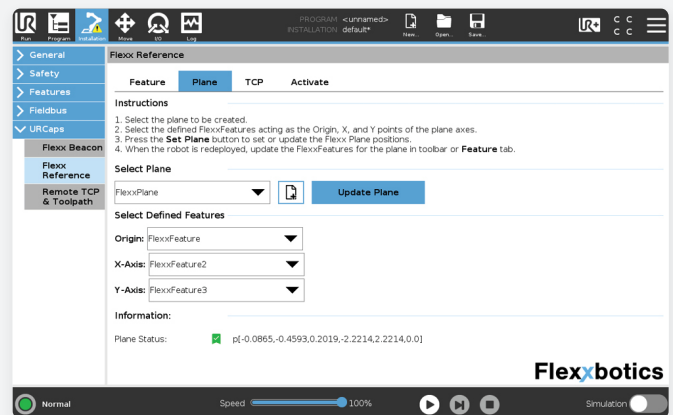
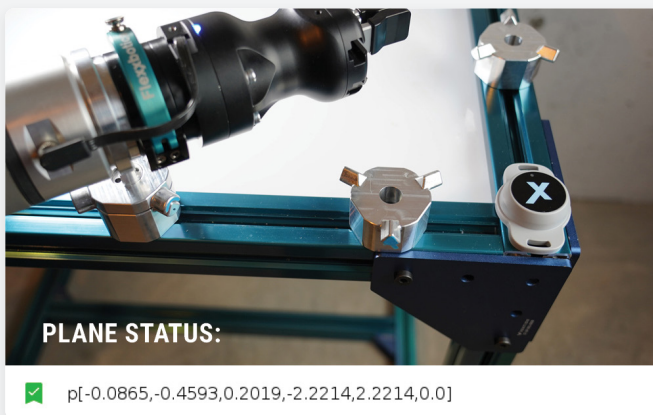


**Conducting Maintenance
On Your Workcells**



**Evaluating Prototype
Applications**

High Accuracy Solution - 3x the features, 3x the accuracy



Specifications

Accuracy	Standard: $\pm 1\text{mm}$ / High Accuracy: $\pm 0.1\text{-}0.5\text{MM}$
Locking time	1-2 Minutes
Material	Aluminum
Robot Compatibility	UR E-Series robots
End Effector Compatibility	All UR+ End Effectors and others
Lead Time	1 Week

Flexx BEACON

Flexx Beacon provides bluetooth communication/proximity scanning between your Universal Robot and your manufacturing work cell.

Give your operators a repeatable and efficient process when your robot experiences job changeover.

Flexx Beacon enables...



**Bluetooth Technology
To Locate & Connect The
Robot To Surroundings**



**Positional Awareness,
Allowing Efficient
Mobility**

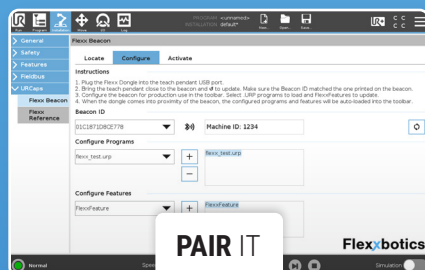


**Intelligent Layer
To Load Correct Part
& Program**

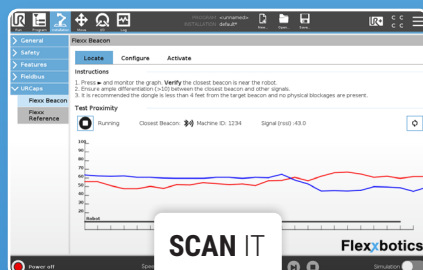


**Allow Any
Operator To Conduct
Redeployment**

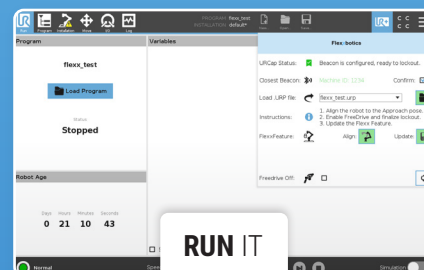
How does It work?



1. PAIR IT
Configure your Flexx Beacons relative to each station/program



2. SCAN IT
Bring the Flexx Scanner in proximity of your Flexx Beacon. The Flexx Scanner recognizes where it is and loads all the correct parameters.



3. RUN IT
Your operator now has everything they need to run the program. Press play and free your operator for other jobs.

Specifications

Scanning Range	Up to 4ft	Power	Battery (Lithium 3V)
Communication	BLE 5.0	Beacon Spacing	3-100ft
IP Rating	67	Lead Time	1 Week

ABOUT US

Our mission at Flexxbotics is to Free Your Robot from the complexities surrounding a dynamic robotic work cell.

At the core, we are a robotic process improvement company looking to break down the technical barrier needed to make your automation equipment as active as your operators.



We believe in three maxims that drive & influence every product we build:



Everyone Should Have The Privilege To Operate a Robot



Every Robot Should Always Be Active



Every Robot's ROI Should Always Be Met

Flexxbotics is a resident at **MassRobotics!**

Contact Us

1 (877) 456 1576
12 Channel St, Boston, MA 02110
sales@flexxbotics.com
flexxbotics.com