

# Flexible Robotic Fixturing for Welding

## Industries:

- Automotive parts
- Motorized vehicles
- Machinery

## Process Application:

- High-mix robotic welding



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**GIVE YOUR ROBOTS  
"HAND-LIKE"  
CAPABILITIES TO  
INCREASE HIGH-MIX  
WELDING FLEXIBILITY  
WITH **THE ADAPTIVE  
GRIPPER****

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## Current Process

A large variety of small components such as brackets and studs need to be welded on a larger assembly.

These small components have to be placed into a custom made fixture to be welded by a robot.

## Issues

- Fixtures are not flexible. High-mix, low-volume batches are then difficult to automate.
- Custom made fixtures are expensive to design and modify.
- Ferry wheels typically used for robotic welding are expensive.



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# GRIP IT ALL.

## The Solution: Robotiq Adaptive Gripper

- 3 articulated fingers and 4 grasping modes to pick a wide variety of geometric sizes and shapes.
- Send simple commands and let the gripper adapt to any geometric shape.
- Use partial stroke for short pick-up time.
- Integration-friendly on any robot; supports multiple communication protocols.
- The Gripper, combined with a vision system, provides all the flexibility and precision desired for welding applications.



## Adaptive Gripper Advantages in High-Mix Welding

- Significantly **reduce fixture costs** and complexity.
- **Reduce operational costs** and reaction time **to engineering changes**.
- **Increase production consistency**.
- **Perfectly suited to mixed-model production**.

**REDUCE COSTS AND INCREASE FLEXIBILITY, PRODUCTIVITY AND EFFICIENCY OF YOUR PRODUCTION PROCESSES.**



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## How to Get Started?

Contact us to discuss with one of our engineers about the Robotiq flexible fixturing application and calculate your ROI potential.

As an advanced robotic component provider, we are committed to work with you and your robotic integrator to increase your productivity.