

EZGripper™

Robotic Grippers



What do you want to pick up?

SAKE®
Robotics

- Easily pick up most objects

EZGrippers help provide a high success rate when picking up objects. The fingers stay straight when picking up objects at the end of the fingers. The fingers automatically wrap around objects when they are grasped closer to the palm of the gripper.

- Super durable for real work

EZGrippers can handle abuse as they are designed to operate in unstructured environments which can be rough on end effectors.

- Large payload

5 kg per gripper. If you need more payload, you can synchronize 2 or more EZGrippers together. We provide mounts for 1, 2 and 3 EZGripper configurations.

- Lightweight

Your robot payload includes your end-effector. The EZGripper weighs ~400 grams to maximize your remaining robot payload.

- Easy to use with your robot

Universal Robots
ROS
Python/Linux/Windows 10
C#/Windows 10

- Human safe

Designed for robots that work with people in human environments



| | |
|-------------------|--|
| Grasp Width | 145mm |
| Payload | 5 kg (wrapping grasp on 9cm pipe) 2.5 kg (pinch grasp on 9cm pipe) |
| Gripper Weight | 365g + 35g (mount) |
| Grasp Force | 0N – 35N |
| Servo | Robotis Dynamixel MX-64AR |
| Operating Voltage | 12V |
| Software | Opensource Python, ROS, Windows, Linux, URDF, 3D models |
| Robots | Universal Robot UR3/UR5/UR10 Rethink Robotics Fetch Robotics Robotis Attaches to most other robots |

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EZGripper Fingers

The EZGripper fingers have a sleek pointed design to enable slipping between objects when picking.

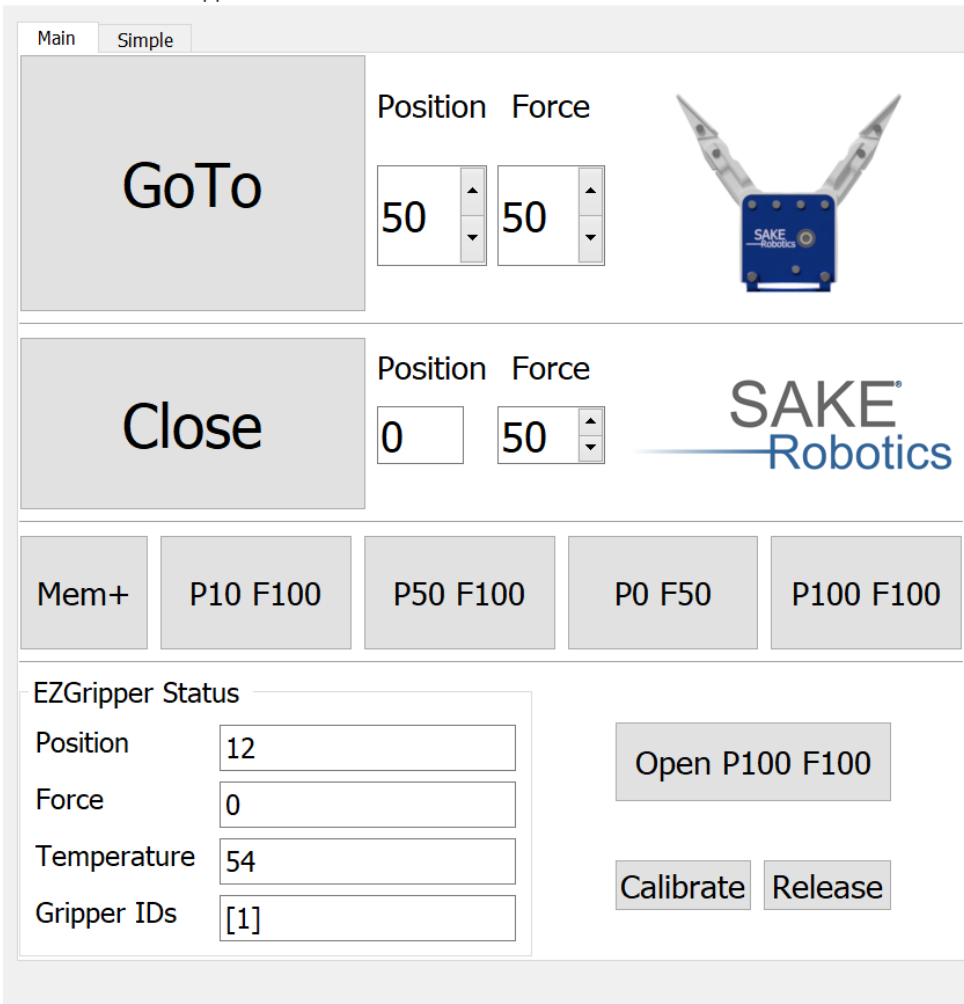
The fingers flexibly rotate inwards in a compliant fashion enabling the fingers to easily slide between objects and a surface (table, crate, etc.)

The fingers can have attachments on both the front and back sides of the finger. It is easy to develop specific finger pads for all kinds of applications.

The EZGrippers come with 30mm by 50mm finger pads



SAKE Robotics: EZGripper Control Panel



The screenshot shows the EZGripper Control Panel with the following elements:

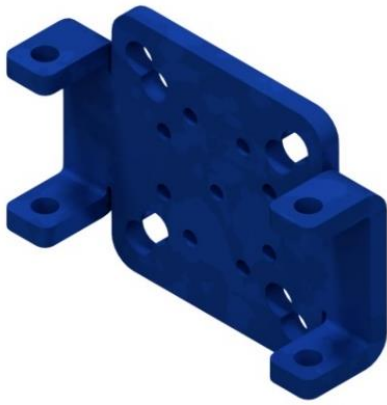
- Mode Selection:** 'Main' and 'Simple' tabs.
- GoTo Section:** A large 'GoTo' button, 'Position' and 'Force' sliders both set to 50, and a small image of the gripper.
- Close Section:** A large 'Close' button, 'Position' set to 0 and 'Force' set to 50, and the SAKE Robotics logo.
- Memory Presets:** Buttons for 'Mem+', 'P10 F100', 'P50 F100', 'P0 F50', and 'P100 F100'.
- Status Section:** 'EZGripper Status' with fields for Position (12), Force (0), Temperature (54), and Gripper IDs ([1]). It also includes 'Open P100 F100', 'Calibrate', and 'Release' buttons.

Easy to Use Software

The EZGripper App makes controlling the grippers very intuitive and efficient. The EZGrippers have programmable position (0-100) and force (0-100).

You can also control the grippers through Python on Linux and ROS or C# or Python on Windows 10

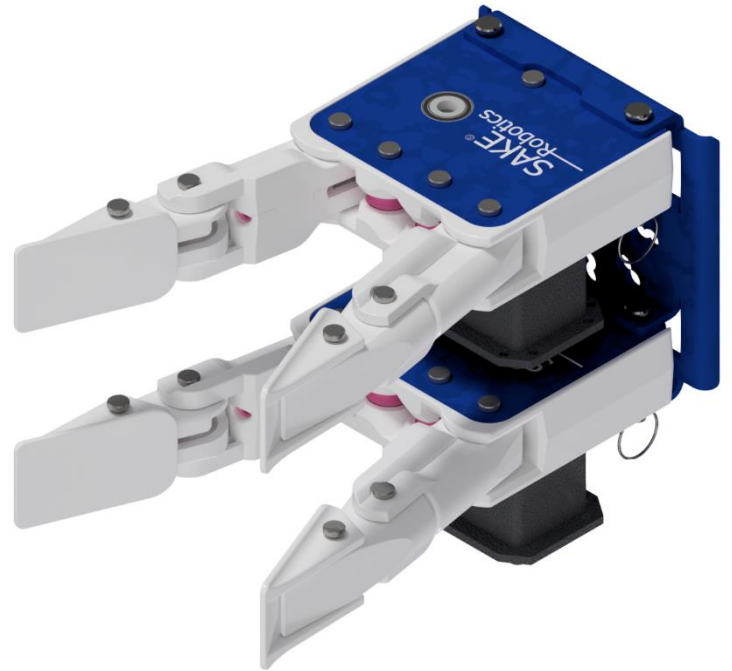
Software available on GitHub
<https://github.com/SAKERobotics/SAKERobotics>



“Universal” Robot Mount

This strong yet lightweight aluminum mount is easily bolted to a wide variety of robotic arms. The mount is designed for the EZGripper to be center aligned to the robot wrist for most robots. This allows 360 degree rotation about the wrist with the grasp center aligned to the axis of rotation.

Other mounts are available that hold 2 and 3 grippers.



Universal Robots Integration

EZGrippers include all necessary hardware, cables and software for fast installation with UR3, UR5, and UR10. This includes our easy to use interface for controlling the grippers or programmatic control via the Python interface.

