

# GET TO GRIPS

## with grippers

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24<sup>th</sup> September, 2020

### with Automata and Schunk - FAQ

#### **How do I attach the new Schunk kits to my Eva robot?**

The kit itself comes with a mounting plate, two bolts that attach straight into the gripper itself and two bolts that attach to Eva's toolplate. The kit also comes with a cable that attaches to the robot and the gripper, allowing for easy mounting and setup. The gripper itself can then be controlled directly through the Choreograph software.

#### **How do I control the gripper through Choreograph?**

When logged into the robot in Choreograph, the user will see a series of IOs on their main admin dashboard. To control the gripper to open and close, simply toggle the digital IOs to 1 and 0 to close and 0 and 1 (on and off) to open. No programming experience or robotics knowledge necessary.

#### **Can the robot control a gripper that's not mounted on it?**

Yes it can! As we're using the standard input/output ports on the robot you can theoretically mount the gripper anywhere you like. For example, if you're looking to hold a part in place during your process then you can definitely include more than one gripper and mount one external to the robot.

#### **How do you limit the amount of force applied by an electric gripper?**

There are a number of different ways to do this. For example, the EGP gripper comes with a dial on the side that allows you to adjust the force of the gripper in 25% increments. A servo gripper, on the other hand, can be controlled with an external controller.

#### **Which grippers would Schunk recommend for handling lab equipment, such as SBS plates and test tubes?**

As you would require a low force gripper, the Schunk EGP40 is a good place to start. This will also come down to the types of gripper fingers used, as they will be the ones to actually manipulate the plates or test tubes. Schunk would therefore recommend a plastic finger that fits neatly around the part, or a rubber-lined finger to avoid damaging the plates or tubes. At Automata, we've recommended 3D printed fingers to our lab automation customers, to give them the flexibility they require.

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### **Does Automata also sell cables?**

Yes we do! If you need cables for your Schunk grippers, please [contact our team](#).

### **What about grippers for larger parts (such as in the automobile industry)? Can I set up multiple grippers to run on one frame?**

Schunk can provide a modular aluminium system which would allow you to mount multiple pneumatic, electric or vacuum grippers. There is also the option of attaching one big gripper to your industrial robot, but in their experience the aluminium frame allows car manufacturers to attach grippers on a rail, as well as diagonally.

### **Are there grippers available for high precision applications, for example picking up small circular parts?**

This will largely be application-dependent and the best tool for the job will be based on factors such as the material that the part is made of, whether it has any standard diameter holes in it and the overall size and shape of the part. If your application requires this level of precision, please [contact our team](#) and they will be more than happy to assist you.

### **Can I send Automata my parts so I can ensure I select the right end of arm tooling?**

Absolutely, we would love to have you send in parts that we can then demo to you and go through how Eva is handling them, what the best gripper to use is and how to programme your process using either Choreograph or our API. Simply [contact our team](#) to find out more and to arrange a demo (remote or on-site!).