V17 Vacuum Gripper for R17

The V17 vacuum gripper option for the R17 robot arm comprises an assembly with the suction cups on a mounting plate with the pneumatic fittings behind it.

This option is usually supplied ready fitted to the robot arm. It is supplied complete with valve and vacuum ejector requiring no extra attachments between the robot and the controller.

Features

The R17 Vacuum option is supplied with 3 suction ports which are routed internally within the robot to the custom pneumatic circuit (supplied) that connects to the controller.
The top of the design however has four extra tapped holes for custom configuration or multiple additional components to be added on.

The pneumatic circuit controlling the vacuum includes a feedback sensor to notify the controller if the vacuum has connected onto an object or not. Simple programming can then determine whether to try again or abort etc.

Specifications

Air Consumption: 46 L/min (ANR)
Maximum vacuum pressure: –88kPa (12.76 Psi)
Maximum suction flow rate: 24 L/min (ANR)
Total suction cups supplied: 3 on the default model.

Applications and Uses

Vacuum pickup is ideal for items that have a flat smooth surface to contact. Vacuum pickups are less precise than grippers but will lift from the top of an item as opposed to gripping from the sides.

We at ST Robotics can also customise the V12 housing if the default model is unsuitable to your needs.
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