



## End Effector Accessories for the MG400 and Magician E6 Robotic Arms

# End Effectors for MG400 and Magician E6 Robot Arms

The MG400 and Magician E6 have a number of different end effector options (grippers, suction cups, etc.) to facilitate different functions and operations with the robot arm. Below are examples of different end effector tools available.

## Vacuum Pump



Mini vacuum pump box

## Vacuum suction cup kit



One-finger gripper

Four-finger gripper

Two-finger gripper

## Grippers



Mini electromagnetic gripper



Electric gripper

## Soft gripper & Soft beaks



Soft gripper



Soft beaks

## Mini vacuum pump box

The Mini vacuum pump was developed for MG400 to perform air pick tasks with a suction cup. Airpick can pick up an item of varying size, shape, material, and weights, making it an effective solution for packaging, palletizing, pick-and-place, assembly, and machine-tending applications.



Specifications	
Model	Mini vacuum pump box
Size	163 mm*143 mm*53 mm
Protection Grade	IP20
Air Pressure Range	-70 ~ 110 kPa
Control Method	I/O
Size of Air Pipe Joiner	φ4 mm
Rated Voltage	24V DC ± 10%
Weight	800g
Rated Current	0.8 A
Noise Level	65 dB
Peak Current	1.2 A

## Vacuum suction cup kit

Designed to fit tight spaces with different suction cup sizes (4mm, 8mm, 13mm, 16mm) and are able to pick up items of varying sizes, shapes, material and weights. An effective solution for packaging, palletizing, pick-and-place, assembly, and machine-tending applications.



Model	Two-finger gripper	Four-finger gripper
Air Tube Dimension	4 mm	
Suction Cup	4 mm, 8 mm, 13 mm, 16 mm	
Weight	120 g	160 g
Size (Lengths*Width)	100 mm*30 mm	100 mm*100 mm

## Electric gripper (Servo type)

The electric gripper is designed to pick up light-weight parts and is ideal for precise applications. With a gripping force up to 2N for each side, the gripper has finer control over gripping forces, speed, position with high agility. The gripper has multiple methods: Modbus-RTUv, I/O. Gripping distance is adjustable to tune according to the size of the work pieces.



Specifications	
Model	DT-AC-PGE2-001
Gripping force (per jaw)	0.8-2 N
Opening/closing stroke (both sides)	0-12 mm
Opening/closing time	0.2 ± 0.2 s
Weight	0.3 kg
Force repeatability	± 0.1 N
Position repeatability (both sides)	± 0.02 mm
Motor resolution	± 40°
Ingress protection rating	IP40
Communication protocols	Modbus RTU (RS485), I/O
Nominal voltage	24V DC ± 10%
Nominal current	0.2 A
Peak current	0.5 A

### Mini electromagnetic gripper

The mini electromagnetic gripper is easy to use and designed to pick up small items. The gripper can be opened and closed through the I/O interface. With the right extension parts, the Opening/Closing stroke can be extended to 0~20mm.



Specifications	
Model	Electric gripper (Servo type)
Gripping force (per jaw)	3.5-5 N
Opening/closing stroke (both sides)	4 mm
Opening/Closing time	0.03 s / 0.03 s
Weight	0.2 kg
Noise	< 50 dB
IP Level	IP40
Communication protocols	I/O
Nominal voltage	24V DC $\pm$ 10%
Nominal current	0.1 A
Peak current	2.5 A

### Soft gripper kit

The soft gripper is specially designed to pick up small, irregular shaped items or items with fragile surface. It is ideal for packing fruits and vegetables in the food industry. The gripper comes with various grip tools that can be quickly installed and adjusted to fit your needs. The gripper comes with an air supply system with adjustable positive/negative pressure and the gripper spacing is adjustable.



Specifications	
Model	Two/Three/Four finger gripper
Gas connector diameter	4 mm
Maximum working frequency	300 times / min
Precision	0.05 mm
Safe working pressure	120 pa
Service life	3,000,000 times

### Adapter flange for Magician E6

This flange allows the MG400 end effectors (grippers, suction cups, etc.) to be used on the Dobot Magician E6 6-axis robotic arm.

