Suction Components - Overview

■ Material Properties of Suction Cups

Select an appropriate cup material according to the usage environment, conditions, atmosphere, conductivity, and material and properties of the workpiece.

<Material property list>

Pad Material		Rubber Type					Sponge Type
		Nitrile Rubber	Silicon Rubber	Conductive Silicon Rubber	Fluoro Rubber	Phlorosilicon Rubber	Chloroprene Rubber
Applications		Cardboard Plywood Metal Plates Other common materials	Semiconductors Removal of molded parts Thin materials Food-related		Chemical atmosphere High Temperature	Removal of molded parts	Uneven surface
Color		Black	White*	Black	Gray	Light Brown	Black
Max. Operating Temp.		110°C	180°C		230°C	180°C	80°C
Min. Operating Temp.		-30°C	-40°C		-10°C	-50°C	-45°C
Weather Resistance		Δ	0		0	0	0
Ozone Resistance		×	0		0	0	0
Oil Resistance / Solvent Resistance	Gasoline, Light Oil	0	Δ		0	Δ	×
	Benzene, Toluene	X~△	Δ		0	Δ	Δ
	Alcohol	0	0		△~○		Δ
	Ether	X~△	X~△		X~△	-	×
	Ketone	×	0		×	-	×
Acid Resistance / Alkali Resistance	Water	0	0		0	-	0
	Organic Acid	×	0		△~○	-	×
	Alkaline	0	0		×	0	0

©: Most suitable Hardly affected C: Suitable Slightly affected but can withstand use depending on the condition

Long workpieces such as circu

Placement of multiple suction cups

If multiple suction cups are attached to one vacuum generator and one of the cups falls off, the degrees of vacuum of the other cups are reduced. Take fall prevention measures.

It is ideal to install a vacuum generator piping for each suction cup.

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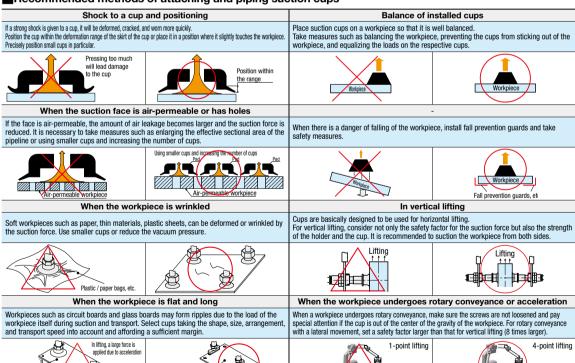
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△: Allowed. If possible, do not use X: Not suitable Seriously affected and not suitable for use

(Note) The above table just shows general properties of materials, which may vary depending on usage conditions and other factors and are not guaranteed.

Recommended methods of attaching and piping suction cups



Vacuum Generator

Checking the suction force (vacuum pressure)

It is recommended to install a sensor or a gauge so that the vacuum pressure can be checked.

Vacuum (

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Vacuum Pressure Sensor

It is effective as a safety measure for detecting abnormalities and suction condition.

Long workpieces such as circuit

Vacuum Generato

boards and semiconductors

^{*} Some products have black, semitransparent, and sky blue variations.