

Data Sheet: Self-Centering Suction Cup Assembly

Product Name: Self-Centering Suction Cup Assembly

Model Number: SELF-CEN-SUCK-ASM-006

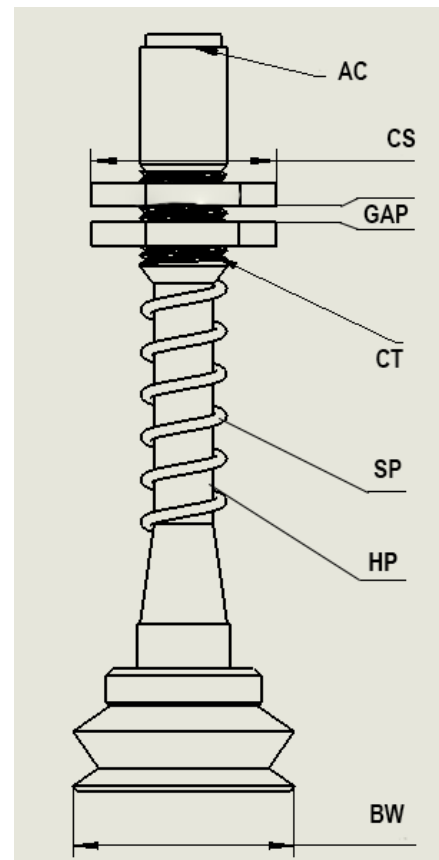
Patent Status: Patent Pending

1. Description

The self-centering suction cup assembly is designed to improve positioning accuracy and ease of use in various applications. Its innovative design allows for automatic alignment on surfaces.

2. Technical Specifications

Vaccum Entry Port (AC)	Direction Air inlet type Air fitting pipe size	VERTICLE PUSH TO CONNECT φ4, φ6, φ8,
Mounting (CS & CT)	Hexagon width across flats (CS) Hollow thread pipe(CT)	Side to side: 24mm M16, inner diameter: 10mm
Spring Material (SP) SU304 stainless steel or spring steel 50CrV4(up to order)	Hollow Pipe inner diameter 6mm	BARROW WIDTH φ40, φ35 or φ25(customizable)
Part Length 122	Weight 6mm Pad Material Silicon rubber	Room for Mounting(GAP) 6mm(customizable)



3. Features

- Self-centering functionality for precise positioning.
- Durable materials ensuring longevity and reliability.
- Suitable for diverse applications in robotics, manufacturing, and more.
- Simple and quick installation process.
- Customization is available.

4. Applications

- Robotics and Automation
- Industrial Equipment

- Automotive Industry
 - Packaging and Assembly
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5. Compliance

- ISO 9001
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6. Instructions

- Installation: Installation is straight forwards. If you have any problem, please check the www.rds-robotics.com for more details.
 - Warning: When handling heavy or dangerous workpieces, ensure measures are in place to counter potential loss of adsorption force, such as installing drop prevention guides.
 - When transporting items using vacuum adsorption with vacuum pads, be aware that adsorption force can be lost if vacuum pressure drops. Additionally, vacuum pressure may diminish due to pad wear and cracking, or vacuum leakage from piping. Regular maintenance of vacuum equipment is essential to prevent such issues. Additionally, a pneumatic online checking system can help prevent vacuum loss. For more details, please visit www.rds-robotics.com.
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7. Maintenance

As pads are primarily made of rubber, deterioration over time is inevitable. The rate of deterioration can be influenced by factors such as usage conditions, environment, and temperature. It is important to conduct regular maintenance. If you notice any damage, splitting, cracking, or abrasion on a pad that seems detrimental, replace it immediately. Additionally, take precautions to avoid damaging the exterior of the pad. Additionally, a pneumatic online checking system can help prevent vacuum loss. For more details, please visit www.rds-robotics.com.

8. Contact Information

For inquiries or further information, please contact:

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