

INDUSTRIAL VACUUM AUTOMATION

Suction Cups

Flat, bellows, oval, foam and special-function cups across the full diameter range.



2

Suction Cups

Flat, bellows, oval, foam and special-function cups across the full diameter range.

The cup is the only part of the system that touches the workpiece, so it decides both what can be held and what the workpiece looks like afterwards. Three choices drive the selection: geometry (flat for rigid and even, bellows for uneven or height-compensating, oval for long and narrow), compound (hardness, marking, temperature and media resistance) and effective diameter, which sets the holding force.

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	A soft, thin sealing lip that conforms without pulling the material into the cup. For paper, film, foil, bags and solar wafer.	
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Maximum contact area on long, narrow workpieces (profiles, strip, extrusions) where a round cup of the same force would not fit.

2.12 Foam-Rubber Cups

2

Universal Flat Cups

The default first choice for flat, rigid, reasonably smooth workpieces. Short cycle time, minimal inner volume, no lateral drift under acceleration. Available in rubber and in polyurethane where abrasion resistance matters.

2.13 Special-Function Cups

6

Nozzle, annular, high-temperature, non-contact Bernoulli, swivelling and electrically conductive designs.



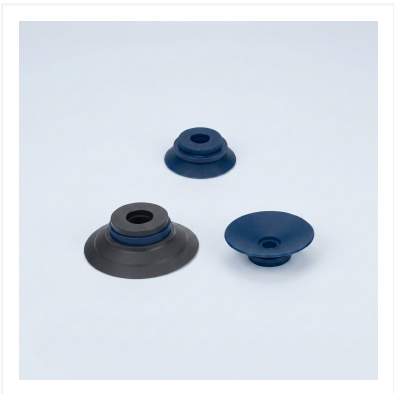
SF Universal Flat Suction Cup

- Handling thin workpiece without permanent deformation
- Short work cycle
- Suitable for workpieces with different sizes and shapes

ORDERING OPTIONS

M Male thread F Female thread

Reference price 93 Kč



SU Universal Flat Suction Cup

- Suitable for handling most the workpieces with a smooth and flat surface or slightly curved surface
- Short work cycle
- Suitable for workpieces with different sizes and shapes

ORDERING OPTIONS

M Male thread F Female thread

Reference price 180 Kč



SPF Flat Suction Cup

16 VARIANTS

- Be able to prevent permanent deformation of workpieces
- Small size, the large suction force
- Short working cycle
- Suitable for workpieces of various sizes and shapes

ORDERING VARIANTS

MODEL	CONNECTION THREAD
SPF2□	SPF2□-M3M
SPF3.5□	SPF3.5□-M3M
SPF5□	SPF5□-M5M
SPF6□	SPF6□-M5M
SPF8□	SPF8□-M5M
SPF10□	SPF10□-M5M
SPF15□	SPF15□-M5M
SPF20□	SPF20□-M5M
SPF25□	SPF25□-M5M
SPF30□	SPF30□-M5M
SPF35□	SPF35□-M5M
SPF40□	SPF40□-M5M
SPF50□	SPF50□-M8M
SPF60□-M10F	-
SPF80□-M10F	-
SPF95□-M10F	-



SFP PU Flat Suction Cup

- Preventing thin workpieces from permanent deformation
- Good wear resistance, long lifetime
- Suitable for workpieces with different sizes and shapes

ORDERING OPTIONS

M Male thread **F** Female thread



SUF

Small Flat Suction Cup

- Good air tightness, suitable for handling workpiece with smooth and even surface
- Suitable for handling small workpieces in the electronic industry

WEIGHT	MATERIAL	DIAMETER
0.1 kg	NBR, Silicone	3.5mm, 5.5mm

TECHNICAL DATA

Diameter

3.5mm, 5.5mm

Material

NBR, Silicone

Connection Thread

M5×0.8 male thread (optional)

Weight

0.1 kg

Model Options

SUF3.5N, SUF3.5S, SUF3.5N-M5M, SUF3.5S-M5M, SUF5.5N, SUF5.5S, SUF5.5N-M5M



SZ Standard Suction Cup

■ Small size and light weight, suitable for workpieces of various sizes and shapes

TESTING VACUUM LEVEL (KPA)	PULL-OUT FORCE (N)	WEIGHT (G)
-60	0.15 to 92	0.3 to 18.8

TECHNICAL DATA

Suction Cup Type

U - Flat, C - Flat with ribs, B - 1.5 Bellows, D - Deep

Diameter Options

φ2, φ4, φ6, φ8, φ10, φ13, φ16, φ20, φ25, φ32, φ40, φ50

Material Options

NBR, White silicone, Conductive NBR, Conductive silicone, Mark free rubber

Pull-out Force (N)

0.15 to 92

Weight (g)

0.3 to 18.8

Recommended Hose Diameter (mm)

4 to 6

Testing Vacuum Level (kPa)

-60

Inner Volume (cm³)

Varies by model

Dimensions (D, D1, H, d, Y)

Varies by model



SP3 General - Purpose Suction Cup

- Used on various occasions, suction cups are interchangeable
- Suitable for occasions with limited space
- Discharge static electricity gently to protect workpieces from damage

TECHNICAL DATA

Suction Cup Type

Flat, Bellows, Flower Shape, Oval

Material Options

NBR, White Silicone, Conductive NBR, Conductive Silicone, Polyurethane, EPDM, Natural Rubber

Diameter Options

φ1.5mm, φ2mm, φ3.5mm, φ4mm, φ6mm, φ8mm, φ10mm, φ13mm, φ16mm

Connection Thread Options

M3F, M3M, M5F, M5M

Weight

0.1g to 5.9g depending on size and type

Interchangeability

Yes, suction cups are interchangeable

Static Electricity Discharge

Gently discharges static electricity

2.2

Thin - Lip Flat Cups

A soft, thin sealing lip that conforms without pulling the material into the cup. For paper, film, foil, bags and solar wafer.



SPA Thin - Lip Flat Suction Cup

14 VARIANTS

- Good sealing for the handling of thin and flat workpieces
- Prevents folding during the handling of paper and thin film
- Suitable for workpieces of various sizes and shapes

ORDERING VARIANTS

MODEL	CONNECTION THREAD
SPA10A□	SPA10A□-M5M
SPA10B□	SPA10B□-M5M
SPA10X□	SPA10X□-M5M
SPA15A□	SPA15A□-M5M
SPA15B□	SPA15B□-M5M
SPA15X□	SPA15X□-M5M
SPA15D□	SPA15D□-M5M
SPA20A□	SPA20A□-M5M
SPA20B□	SPA20B□-M5M
SPA25A□	SPA25A□-M6M SPA25A□-M8M
SPA30A□	SPA30A□-M6M SPA30A□-M8M
SPA30B□	SPA30B□-M5M
SPA40A□	SPA40A□-M6M SPA40A□-M8M
SPA50A□	SPA50A□-M6M SPA50A□-M8M



SPD

Thin-Lip Flat Suction Cup

2 VARIANTS

■ Fits thin film workpieces closely

PULL-OUT FORCE (N)	WEIGHT (G)	MATERIAL OPTIONS	RECOMMENDED HOSE DIAMETER (MM)
3.5 to 7.5	0.2 to 0.3	NBR, White silicone	4

TECHNICAL DATA

Inner volume (cm ³)	<0.1	Recommended hose diameter (mm)	4
Diameter options	φ10mm, φ15mm	Material options	NBR, White silicone
Connection thread	M5×0.8 male thread (for SPD15)		

VARIANTS: 2 SIZES

MODEL	PULL-OUT FORCE (N)	WEIGHT (G)
SPD10	3.5	0.2
SPD15	7.5	0.3



SFT Thin-Lip Flat Suction Cup

- Suitable for film, paper, and solar panels, prevent the workpiece from being sucked into the suction cup

ORDERING OPTIONS

M Male thread **F** Female thread



SFA Ultra-Thin-Lip Cup for Plastic Bags

- Suitable for film products, can fit workpiece closely
- Prevent the workpiece from being sucked into suction cup and wrinkling
- Food grade silicone, suitable for food package

ORDERING OPTIONS

M Male thread pcs



STP Ultra-Thin Flower-Shaped Suction Cup

- 35 degrees white silicone is suitable for softer bags, 50 degrees blue silicone is suitable for harder bags

TECHNICAL DATA

S

WS

Flat Cups for Metal Sheet

Compounds chosen for oil, wear and ozone resistance, with a lip profile that resists lateral slip on lubricated sheet.



SDM

Flat Suction Cup for Sheet Metal

- Long lifetime, excellent wear resistance, ozone resistance, oil resistance
- Effectively prevent deformation of the metal sheet during handling

TECHNICAL DATA

G2F

G3F



SFF

Flat Suction Cup for Sheet Metal

- Effectively enhance the friction force between suction cups and workpieces
- Suitable for workpieces with different sizes and shapes

A specification table is not published for this family. Confirm dimensions, performance data and ordering details before purchase.



SFM

Flat Suction Cup for Oily Sheet Metal

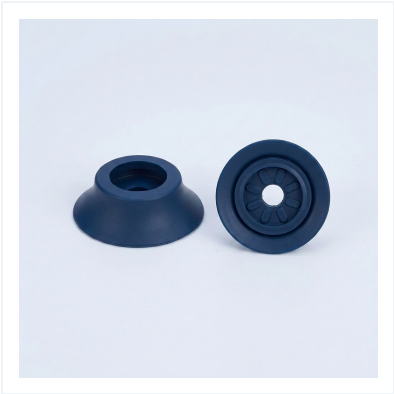
- Easy to fit workpieces with different shapes of surfaces
- Long lifetime and wear resistance, ozone resistance, and oil resistance are excellent

ORDERING OPTIONS

Model Connection thread

Application - Specific Flat Cups

Tuned for one industry each: wood, glass and rough or textured surfaces.



SFD

Flat Suction Cup for Wood

2 VARIANTS

- Excellent airtightness for workpieces with rough or smooth surfaces
- Prevent thin workpiece from permanent deformation

ORDERING VARIANTS

MODEL	CONNECTION THREAD F - FEMALE THREAD
SFD40□	SFD40□-G1F
SFD70□	SFD70□-G2F



SFG

Flat Suction Cup for Glass

4 VARIANTS

- Excellent airtightness
- Large friction coefficients, prevent deformation of the workpiece
- Short work cycle, with high stock, it can suck glass with a certain curvature

ORDERING VARIANTS: STROKE

STANDARD	H: HIGH STROKE
SFG125□-G2F SFG125□-G3F	-
SFG150□-G4F	SFG150H□-G4F
SFG200□-G4F	-
SFG400□-G4F	-



SFK Flat Suction Cup for Rough Surfaces

4 VARIANTS

- Suitable for workpieces with rough or uneven surfaces
- Slipping resistance
- Prevent thin workpiece from permanent deformation
- Short work cycle
- Suitable for workpieces with different sizes and shapes

ORDERING VARIANTS

MODEL	CONNECTION THREAD
SFK110E	SFK110E-G4F SFK110E-G4F-V
SFK160E	SFK160E-G4F SFK160E-G4F-V
SFK200E	SFK200E-G4F SFK200E-G4F-V
SFK250E	SFK250E-G4F SFK250E-G4F-V

2.5

Large-Diameter Flat Cups

Where a single cup has to carry the load. High pull-out force at the cost of inner volume and evacuation time.



SFGT Large Flat Suction Cup

4 VARIANTS

- Excellent airtightness for workpieces with rough or smooth surfaces
- Prevent thin workpiece from permanent deformation

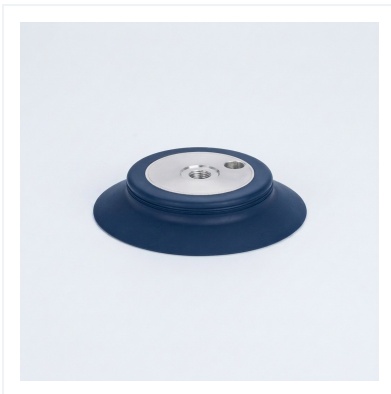
TESTING VACUUM LEVEL (KPA)	PULL-OUT FORCE (N)	WEIGHT (G)	MATERIAL
-60	110 to 1010	48 to 584	White silicone (WS)

TECHNICAL DATA

Testing vacuum level (kPa)	-60	Material	White silicone (WS)
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VARIANTS: 4 SIZES

MODEL	PULL-OUT FORCE (N)	INNER VOLUME (CM ³)	RECOMMENDED HOSE DIAMETER (MM)	WEIGHT (G)
SFGT65-G3F	110	3.5	8	48
SFGT90-G3F	320	11	8	110
SFGT120-G3F	550	25	10	226
SFGT160-G4F	1010	81	10	584



SFU Large Flat Suction Cup

- Prevent thin workpieces from permanent deformation
- Excellent airtightness, the large suction force
- Short work cycle
- Reduce customer costs greatly
- Suitable for workpieces with different sizes and shapes

A specification table is not published for this family. Confirm dimensions, performance data and ordering details before purchase.

2.6

Heavy-Load Cups

Replaceable wearing parts on a reusable body, so the consumable cost of heavy handling stays low.



SH Heavy-Duty Flat Suction Cup

- Be able to prevent permanent deformation of workpieces
- Handling of workpieces with a flat surface and short working cycle
- Wearing parts can be replaced, and suction cups can be recycled

ORDERING OPTIONS

50 ϕ 50mm 100 - ϕ 100mm **WS** White silicone 50



SHB Heavy-Duty Bellows Suction Cup

- Wearing parts can be replaced, and suction cup can be recycled to highly reduce cost

ORDERING OPTIONS

50 ϕ 50mm 100 - ϕ 100mm **WS** White silicone 50
R1 Vertical, male thread connection **M12F** M12×1.75 female thread
LR1 Lateral, female thread connection **G2F** G1/4 female thread

1.5-Fold Bellows Cups

One and a half convolutions: enough stroke to absorb height tolerance and cushion the approach, without the lateral softness of a deep bellows.



SBA

1.5-Fold Bellows Suction Cup

- Easy to fit the uneven surface of the workpiece, has a buffer effect
- Can handle workpiece with high temperature
- The fitting can be used repeatedly, greatly reducing the customer's cost
- Suitable for workpieces with different sizes and shapes

ORDERING OPTIONS

Model	Connection thread	M Male thread	F Female thread
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SBB

Large 1.5-Fold Bellows Suction Cup

- Easy to fit the uneven surface of the workpiece, and had a buffer effect
- Handling thin workpiece without permanent deformation
- It will be more reliable and stable during heavy load handling
- Suitable for handling large, heavy, and vulnerable workpieces

TECHNICAL DATA

Nil - 4-φ7 flange hole	F - Female thread	-	SBB200N-G4F
SBB250N	-	SBB300N	-



SBF

1.5-Fold Bellows Cup for Sheet Metal

- Easy to fit the uneven surface of the workpiece, and has a buffer effect

ORDERING OPTIONS

Model	Connection thread
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Reference price NT\$1,233-1,573



STC 1.5-Fold Bellows Cup for Sheet Metal

- Effectively enhance friction force between suction cups and workpieces

ORDERING OPTIONS

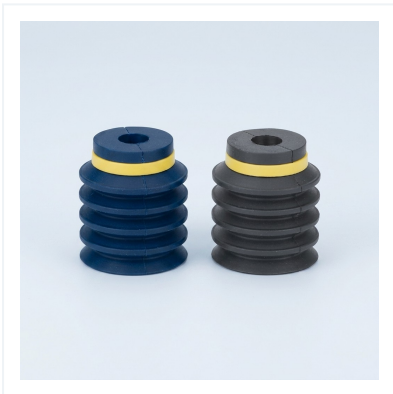
Model Connection thread

Reference price NT\$1,260

2.8

Multi-Fold Bellows Cups

2.5 and 4.5 folds for large height differences and for lifting a workpiece clear before traversing.



SBL 4.5-Fold Bellows Suction Cup

- Suitable for handling workpieces with irregular shape

ORDERING OPTIONS

M Male thread **F** Female thread

Reference price 225 Kč



SBOF 2.5-Fold Oval Bellows Suction Cup

- Excellent wearing resistance, long lifetime

ORDERING OPTIONS

Model Connection thread **M** Male thread **F** Female thread

Universal & PU Bellows Cups

General-purpose bellows in rubber and polyurethane compounds. Polyurethane where abrasion resistance and non-marking both matter.



SB Universal Bellows Suction Cup

- Easy to fit the uneven surface of the workpiece, and has a buffer effect
- Handling thin workpiece without permanent deformation
- Suitable for workpieces with different sizes and shapes

ORDERING OPTIONS

Model	Connection thread	M Male thread	F Female thread
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Reference price 112 Kč



SBP PU Bellows Suction Cup

- Prevent thin workpieces from permanent deformation

ORDERING OPTIONS

Model	Connection thread	M Male thread	F Female thread
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SGP PU Bellows Suction Cup

- Suitable for workpieces with different sizes and shapes

ORDERING OPTIONS

Model	Connection thread	M Male thread	F Female thread
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SXP PU Bellows Suction Cup

- Easy to fit the uneven surface of the workpiece, and has a buffer effect

ORDERING OPTIONS

Model Connection thread **M** Male thread **F** Female thread



SPC Bellows Suction Cup

13 VARIANTS

- Large suction force, and have good buffer effect when sucking workpiece with uneven surface
- Good sealing and long compressed stroke, suitable for handling workpieces with an uneven surface
- Suitable for workpieces of various sizes and shapes

ORDERING VARIANTS

MODEL CONNECTION THREAD M - MALE THREAD

SPC3□	SPC3□-M3M
SPC5□	SPC5□-M5M
SPC7□	SPC7□-M5M
SPC10□	SPC10□-M5M
SPC12□	SPC12□-M5M
SPC15□	SPC15□-M5M
SPC18□	SPC18□-M5M
SPC20□	SPC20□-M5M
SPC25□	SPC25□-M5M
SPC30□	SPC30□-M8M
SPC40□	SPC40□-M8M
SPC60□	SPC60□-M8M
SPC90□	SPC90□-G1M



SPJ

Bellows Suction Cup

14 VARIANTS

- Compensate the height difference and good buffer when have contact with workpieces
- Good sealing for handling of workpieces with uneven surface
- Available in various sizes

ORDERING VARIANTS

MODEL	CONNECTION THREAD M - MALE THREAD
SPJ4□	SPJ4□-M3M
SPJ6□	SPJ6□-M5M
SPJ8□ SPJ8□-PK	SPJ8□-M5M SPJ8□-M5M-PK
SPJ10□ SPJ10□-PK	SPJ10□-M5M SPJ10□-M5M-PK
SPJ15□ SPJ15□-PK	SPJ15□-M5M SPJ15□-M5M-PK
SPJ20□ SPJ20□-PK	SPJ20□-M5M SPJ20□-M5M-PK
SPJ25□ SPJ25□-PK	SPJ25□-M5M SPJ25□-M5M-PK
SPJ30□ SPJ30□-PK	SPJ30□-M5M SPJ30□-M5M-PK
SPJ35□ SPJ35□-PK	SPJ35□-M5M SPJ35□-M5M-PK
SPJ40□ SPJ40□-PK	SPJ40□-M5M SPJ40□-M5M-PK
SPJ50□ SPJ50□-PK	SPJ50□-M8M SPJ50□-M8M-PK
SPJ60□	-
SPJ70□	-
SPJ80□	-

Reference price NT\$1,250

Application - Specific Bellows Cups

Sealing geometries for soft packaging, spherical bodies and thin sheet that must not deform.



SBLP Bellows Suction Cup for Soft Packaging

- Have good airtightness when grabbing a soft packing bag or flexible workpiece

WEIGHT	MATERIAL	CONNECTION THREAD	DIAMETER
14.4g, 24.1g, 43.3g	Food grade silicone	G1/4, G3/8, G1/2	30mm, 40mm, 50mm

TECHNICAL DATA

Model
SBLP30S-G2M, SBLP40S-G3M, SBLP50S-G4M

Diameter
30mm, 40mm, 50mm

Height
36.5mm, 40mm, 55mm

Connection Thread
G1/4, G3/8, G1/2

Weight
14.4g, 24.1g, 43.3g

Material
Food grade silicone

Special Features
Thin sealing lip, bellows structure, large vacuum flow



SBS Bellows Cup for Spherical Workpieces

- Effectively fit the surface of the spherical workpiece

ORDERING OPTIONS

33 $\varnothing$ 33mm	WS White silicone 50	34 $\varnothing$ 34mm	WSA White silicone 30
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SBT Bellows Cup for Thin Workpieces

- Suitable for handling workpieces with irregular shape
- Grabbing a soft package with good airtightness
- Direct contact with food

PULL-OUT FORCE (N)	WEIGHT (G)	MATERIAL	CONNECTION THREAD
8	1.3	NBR	M5×0.8 female thread

TECHNICAL DATA

Model	SBT16	Pull-out force (N)	8
Inner volume (cm ³)	<0.1	Weight (g)	1.3
Diameter	φ16mm	Material	NBR
Connection thread	M5×0.8 female thread		

2.11

Oval Cups

Maximum contact area on long, narrow workpieces (profiles, strip, extrusions) where a round cup of the same force would not fit.



SAO Oval Flat Suction Cup

- Small sizes, large suction force, suitable for handling long and narrow workpieces

TECHNICAL DATA

4×10 8×20	WS - White silicone 50	5×10 4×30	CN - Conductive NBR 55
6×10 5×30	CS - Conductive silicone 55		



SOB Oval Suction Cup for Sheet Metal

- Handling long and narrow workpieces with even surfaces or curvature
- Suitable for workpieces with different sizes and shapes

ORDERING OPTIONS

Model	Connection thread
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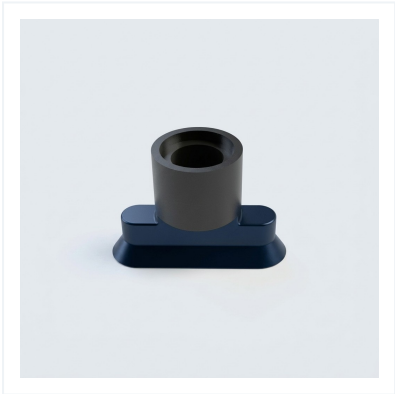


SOF Oval Flat Cup for Sheet Metal

- Handling long and narrow workpieces
- Effectively enhance friction force between suction cups and workpieces
- Suitable for workpieces with different sizes and shapes

ORDERING OPTIONS

Model	Connection thread
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SOFA Oval Flat Suction Cup

- Handling long and narrow workpieces or flat workpieces with reinforced rib on surface

MATERIAL	CONNECTION THREAD	SIZE
NBR	M5F	6×18

TECHNICAL DATA

Series	SOFA	Size	6×18
Material	NBR	Hardness	55
Connection Thread	M5F		



SOM Oval Flat Cup for Narrow Workpieces

- Easy to fit the workpieces with different shapes of surfaces

ORDERING OPTIONS

Model	Connection thread
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SOG Oval Concave Cup for Cylindrical Workpieces

- Suitable for handling the cylindrical workpiece

ORDERING OPTIONS

Model	Connection thread
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Foam - Rubber Cups

A closed-cell foam face that seals across joints, perforations, ribs and coarse texture. Circular and rectangular.



SNP

Rectangular Foam Suction Cup

■ Long lifetime, good sealing, and large suction force

VACUUM LEVEL	CONNECTION THREAD
- 60 kPa	G1/4, G3/8, G1/2

TECHNICAL DATA

Material

Neoprene foam rubber (NF), Geranium foam rubber (OF)

Dimensions

Available in sizes such as 50×135 mm, 60×135 mm, 75×107 mm, 68×290 mm, 140×290 mm

Connection Thread

G1/4, G3/8, G1/2

Weight

Ranges from 202 g to 1,235 g depending on size

Pull-out Force

Ranges from 60 N to 720 N depending on size

Vacuum Level

- 60 kPa

Support Plate

Large area support plate

Compatibility

Suitable for workpieces of various sizes and shapes



SOP

Circular Foam Suction Cup

- Long lifetime, good sealing, and large suction force

SUCTION FORCE	WEIGHT	SUPPORT PLATE	SIZES
Large	Lightweight	Large area	Available in various sizes

TECHNICAL DATA

Lifetime
Long
Sealing
Good
Suction Force
Large
Support Plate
Large area
Weight
Lightweight
Materials
NF (Neoprene foam rubber), OF (Geranium foam rubber)
Sizes
Available in various sizes

2.13

Special-Function Cups

Nozzle, annular, high-temperature, non-contact Bernoulli, swivelling and electrically conductive designs.



SAN

Nozzle Suction Cup

- Fast handling of mini type workpieces, ideal for occasions with limited space

TECHNICAL DATA

Diameter
0.8mm, 1.1mm
Material
NBR, White silicone, Conductive NBR, Conductive silicone
Hardness
55 (NBR, Conductive NBR), 50 (White silicone), 55 (Conductive silicone)
Connection/Thread
M5×0.8 male thread (for SAN 1.1)



SDL Annular Suction Cup

- Good sealing
- Detection instrument can be designed in the hollow part for separation of vacuum and detection
- Firm installation

VACUUM LEVEL (KPA)	PULL-OUT FORCE (N)	WEIGHT (G)	MATERIAL
-60	258	107	NBR

TECHNICAL DATA

Model	SDL100N-G1F	Pull-out force (N)	258
Inner volume (cm ³)	44	Weight (g)	107
Recommended hose diameter (mm)	8	Vacuum level (kPa)	-60
Diameter (mm)	100	Material	NBR
Connection thread	G1/8 female thread		

Reference price NT\$3,360



SHT High-Temperature Suction Cup

- Strong wear resistance
- Excellent high-temperature resistance can achieve long time contact with the workpiece

TECHNICAL DATA

60 - φ60mm	G1F - G1/8 female thread	90 - φ90mm	G2F - G1/4 female thread
G1F	G2F		



SNT Non-Contact Suction Cup

6 VARIANTS

- To achieve non-contact handling of the workpiece

MAX AIR CONSUMPTION (NL/MIN)	PULL-OUT FORCE (N)	AIR SUPPLY PRESSURE (BAR)	WORKING TEMPERATURE (°C)
80 to 420	2 to 89	5	0~60

TECHNICAL DATA

Air Supply Pressure (bar)	5	Working Temperature (°C)	0~60
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VARIANTS: 6 SIZES

MODEL	PULL-OUT FORCE (N)	MAX AIR CONSUMPTION (NL/MIN)	WEIGHT (G)	RECOMMENDED HOSE DIAMETER (MM)	DIAMETER (MM)
SNT20	2	80	9.5	6	20
SNT30	4	100	32	8	30
SNT40	6.5	130	51	8	40
SNT60	13	200	116	8	60
SNT100	46	350	252	8	100
SNT120	89	420	365	8	120



SPU Swivel Flat Suction Cup

- Be able to prevent thin-walled workpieces from permanent deformation
- Suitable for workpieces of various sizes and shapes

ORDERING OPTIONS

15 ϕ 15mm 50 - ϕ 50mm	WS White silicone 50
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SPH

Conductive Mark - Free Suction Cup

- It can be used in conditions requiring electrostatic protection, such as electronic products

A specification table is not published for this family. Confirm dimensions, performance data and ordering details before purchase.

CONTACT

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Product images are visual references. Confirm dimensions, materials and ordering details before purchase.