

STC Series

AIRBEST

1.5 Bellows Suction Cup Special for Metal Sheet



METAL
SHEET



SLIPPING
RESISTANCE



OILY
SURFACE

RoHS

Suction Cup

Features

- ◇ 1.5 Bellows structure
- ◇ Internal large area pattern support structure
- ◇ Various sizes and specifications are available

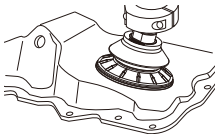
Advantages

- ◇ Easy to fit the uneven surface of workpiece, and has buffer effect
- ◇ Effectively enhance friction force between suction cups and workpieces
- ◇ The max. temp of HK material is 250°C, it can be used to pick up high temp metal sheet
- ◇ The max. temp of HD material is 160°C, it can be used to pick up high temp glass without mark
- ◇ Suitable for workpieces with different sizes and shapes



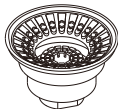
Applications

- ◇ Suitable for fast handling of metal plates, short cycle time
- ◇ Handling metal sheet and aluminum plates without deformation
- ◇ The internal special pattern groove design prevents the oily sheet metal from slipping during handling
- ◇ Used in automotive stamping metal parts handling system



Structure

- ◇ 1.5 Bellows structure, large compressed stroke
- ◇ Suction cup and fitting are one-piece structure design



SZ
SP3
SUF
SAN
SAO
SOFA
STP
SFT
SFA
SST
SEL
SLP
SES
SFP
SEP
SXP
SGP
SBOP
STC
SFF
SOB
SOF
SDG
SDM
SOM
SFP
SDM
SPU
SFK
SHT
SDL
SPG
SFGT
SPD
SB
SBA
SF
SU
SP2P
SPA
SPD
SPF
SPC
SPJ
SPU
SH
SHB
SBB
SOP
SNP

1.5 Bellows Suction Cup Special for Metal Sheet

How to order

STC 50 N - G3F

① ② ③ ④

① Series	② Diameter	③ Material & Hardness	④ Connection thread
STC	22 - ϕ 22mm	N - NBR	G2F - G1/4 female thread
	30 - ϕ 30mm	HK - Extra high temp rubber	G3F - G3/8 female thread
	40 - ϕ 40mm	HD - High temp/mark free material	G2M - G1/4 male thread
	50 - ϕ 50mm		M10M - M10 $\times$ 1.5 male thread
	60 - ϕ 60mm		M14M - M14 $\times$ 1.5 male thread
	80 - ϕ 80mm		RA - Rectangular adapter
	100 - ϕ 100mm		
	125 - ϕ 125mm		

Selection

Model	Connection thread					
	G2M	M10M	M14M	G2F	G3F	RA
STC22N-□	STC22N-G2M	STC22N-M10M	STC22N-M14M	STC22N-G2F	STC22N-G3F	STC22N-RA
STC30N-□	STC30N-G2M	STC30N-M10M	STC30N-M14M	STC30N-G2F	STC30N-G3F	STC30N-RA
STC40N-□	STC40N-G2M	STC40N-M10M	STC40N-M14M	STC40N-G2F	STC40N-G3F	STC40N-RA
STC50N-□	STC50N-G2M	STC50N-M10M	STC50N-M14M	STC50N-G2F	STC50N-G3F	STC50N-RA
STC60N-□	STC60N-G2M	STC60N-M10M	STC60N-M14M	STC60N-G2F	STC60N-G3F	STC60N-RA
STC80N-□	STC80N-G2M	STC80N-M10M	STC80N-M14M	STC80N-G2F	STC80N-G3F	STC80N-RA
STC100N-□	STC100N-G2M	STC100N-M10M	STC100N-M14M	STC100N-G2F	STC100N-G3F	STC100N-RA
STC125N-□	STC125N-G2M	STC125N-M10M	STC125N-M14M	STC125N-G2F	STC125N-G3F	STC125N-RA

Model	Connection thread			Model	Connection thread		
	G2M	G2F	G3F		G2M	G2F	G3F
STC22HK-□	STC22HK-G2M	STC22HK-G2F	STC22HK-G3F	STC22HD-□	STC22HD-G2M	STC22HD-G2F	STC22HD-G3F
STC30HK-□	STC30HK-G2M	STC30HK-G2F	STC30HK-G3F	STC30HD-□	STC30HD-G2M	STC30HD-G2F	STC30HD-G3F
STC40HK-□	STC40HK-G2M	STC40HK-G2F	STC40HK-G3F	STC40HD-□	STC40HD-G2M	STC40HD-G2F	STC40HD-G3F
STC50HK-□	STC50HK-G2M	STC50HK-G2F	STC50HK-G3F	STC50HD-□	STC50HD-G2M	STC50HD-G2F	STC50HD-G3F
STC60HK-□	STC60HK-G2M	STC60HK-G2F	STC60HK-G3F	STC60HD-□	STC60HD-G2M	STC60HD-G2F	STC60HD-G3F
STC80HK-□	STC80HK-G2M	STC80HK-G2F	STC80HK-G3F	STC80HD-□	STC80HD-G2M	STC80HD-G2F	STC80HD-G3F
STC100HK-□	STC100HK-G2M	STC100HK-G2F	STC100HK-G3F	STC100HD-□	STC100HD-G2M	STC100HD-G2F	STC100HD-G3F
STC125HK-□	STC125HK-G2M	STC125HK-G2F	STC125HK-G3F	STC125HD-□	STC125HD-G2M	STC125HD-G2F	STC125HD-G3F

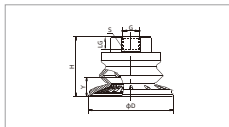
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Technical parameters

Model	Vertical pull-out force N	Lateral pull-out force N	Lateral pull-out force Oily surface (N)	Inner volume cm ³	Min. curve radius of workpiece mm	Weight g	Recommended hose dia. mm	MPQ pcs
STC22	23	20	6.5	1.5	20	8.6	6	5
STC30	35	28	12	6.3	35	12	6	5
STC40	62	37	34	7.2	40	13.5	6	1
STC50	85	58	55	11.2	45	21	8	1
STC60	141	88	83	22.5	52	29	8	1
STC80	236	141	136	57	70.5	51	8	1
STC100	371	228	221	92	95	77	8	1
STC125	558	352	335	191	140	165	10	1

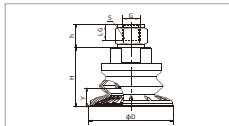
○ Note: Testing vacuum level -60kPa, workpiece with smooth and clean surface. The data of pull-out force as above are figured out without considering safety factor. The data may be different according to different workpiece surfaces

Dimensions(mm)



F - Female thread

Model/Size	D	H	G	LG	S	Y
STC22□-G2F	22	25	G1/4	10	16	5.5
STC30□-G2F	32	28	G1/4	11	17	9.5
STC40□-G2F	42	28.5	G1/4	11	17	10
STC50□-G3F	52	36.2	G3/8	13	22	11.5
STC60□-G3F	62.5	41	G3/8	13	22	14.5
STC80□-G3F	82	49.5	G3/8	13	22	22.5
STC100□-G3F	103	55	G3/8	13	22	25
STC125□-G3F	128	68	G3/8	13	22	32



F - Female thread

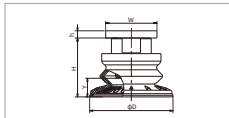
Model/Size	D	H	G	h	LG	S	Y
STC22□-G3F	22	25	G3/8	14	11	22	5.5
STC30□-G3F	32	28	G3/8	14	11	22	9.5
STC40□-G3F	42	28.5	G3/8	14	11	22	10
STC50□-G2F	52	36.2	G1/4	14	11	22	11.5
STC60□-G2F	62.5	41	G1/4	14	11	22	14.5
STC80□-G2F	82	49.5	G1/4	14	11	22	22.5
STC100□-G2F	103	55	G1/4	14	11	22	25
STC125□-G2F	128	68	G1/4	14	11	22	32

STC Series

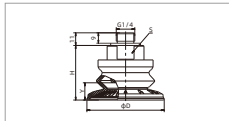
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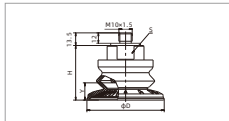
Dimensions(mm)



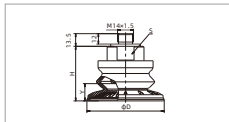
RA - Rectangular adapter



M - Male thread



M - Male thread



M - Male thread

○ Note: The dimensional tolerance conforms to GB/T16723-2002-1 M3 rubber product dimensional tolerance standard

Model/Size	D	H	W	h	Y
STC22□-RA	22	25	31.8×31.8	4.7	5.5
STC30□-RA	32	28	31.8×31.8	4.7	9.5
STC40□-RA	42	28.5	31.8×31.8	4.7	10
STC50□-RA	52	36.2	31.8×31.8	4.7	11.5
STC60□-RA	62.5	41	31.8×31.8	4.7	14.5
STC80□-RA	82	49.5	31.8×31.8	4.7	22.5
STC100□-RA	103	55	31.8×31.8	4.7	25
STC125□-RA	128	68	31.8×31.8	4.7	32

Model/Size	D	H	S	Y
STC22□-G2M	22	25	17	5.5
STC30□-G2M	32	28	17	9.5
STC40□-G2M	42	28.5	17	10
STC50□-G2M	52	36.2	22	11.5
STC60□-G2M	62.5	41	22	14.5
STC80□-G2M	82	49.5	22	22.5
STC100□-G2M	103	55	22	25
STC125□-G2M	128	68	22	32

Model/Size	D	H	S	Y
STC22□-M10M	22	25	17	5.5
STC30□-M10M	32	28	17	9.5
STC40□-M10M	42	28.5	17	10
STC50□-M10M	52	36.2	22	11.5
STC60□-M10M	62.5	41	22	14.5
STC80□-M10M	82	49.5	22	22.5
STC100□-M10M	103	55	22	25
STC125□-M10M	128	68	22	32

Model/Size	D	H	S	Y
STC22□-M14M	22	25	17	5.5
STC30□-M14M	32	28	17	9.5
STC40□-M14M	42	28.5	17	10
STC50□-M14M	52	36.2	22	11.5
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STC80□-M14M	82	49.5	22	22.5
STC100□-M14M	103	55	22	25
STC125□-M14M	128	68	22	32