STC Series

1.5 Bellows Suction Cup Special for Metal Sheet

METAL SHEET

SLIPPING RESISTANCE

OILY SURFACE

RoHS

Features

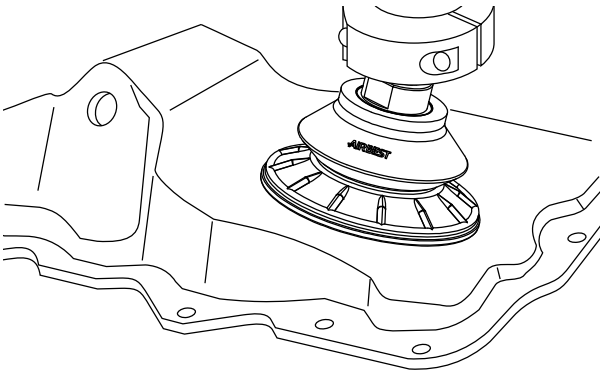
◇ 1.5 Bellows structure
◇ Internal large area pattern support structure
◇ Various sizes and specifications are available

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℃, it can be used to pick up high temp metal sheet
◇ The max. temp of HD material is 160℃, it can be used to pick up high temp glass without mark
◇ Suitable for workpieces with different sizes and shapes

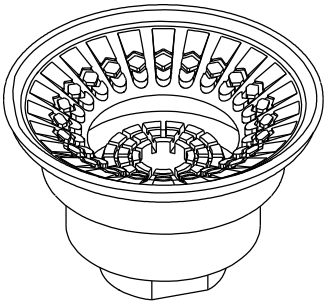
Applications

◇ 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



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How to order

STC 50 N - G3F
① ② ③ ④

① Series	② Diameter	③ Material & Hardness		④ Connection thread
STC	22 - ϕ22mm	N - NBR	60	G2F - G1/4 female thread
	30 - ϕ30mm	HK - Extra high temp rubber	65	G3F - G3/8 female thread
	40 - ϕ40mm	HD - High temp/mark free material	60	G2M - G1/4 male thread
	50 - ϕ50mm			M10M - M10×1.5 male thread
	60 - ϕ60mm			M14M - M14×1.5 male thread
	80 - ϕ80mm			RA - Rectangular adapter
	100 - ϕ100mm			
	125 - ϕ125mm			

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 G2M	G2F	G3F
STC22HK-□	STC22HK-G2M	STC22HK-G2F	STC22HK-G3F
STC30HK-□	STC30HK-G2M	STC30HK-G2F	STC30HK-G3F
STC40HK-□	STC40HK-G2M	STC40HK-G2F	STC40HK-G3F
STC50HK-□	STC50HK-G2M	STC50HK-G2F	STC50HK-G3F
STC60HK-□	STC60HK-G2M	STC60HK-G2F	STC60HK-G3F
STC80HK-□	STC80HK-G2M	STC80HK-G2F	STC80HK-G3F
STC100HK-□	STC100HK-G2M	STC100HK-G2F	STC100HK-G3F
STC125HK-□	STC125HK-G2M	STC125HK-G2F	STC125HK-G3F

Model	Connection thread G2M	G2F	G3F
STC22HD-□	STC22HD-G2M	STC22HD-G2F	STC22HD-G3F
STC30HD-□	STC30HD-G2M	STC30HD-G2F	STC30HD-G3F
STC40HD-□	STC40HD-G2M	STC40HD-G2F	STC40HD-G3F
STC50HD-□	STC50HD-G2M	STC50HD-G2F	STC50HD-G3F
STC60HD-□	STC60HD-G2M	STC60HD-G2F	STC60HD-G3F
STC80HD-□	STC80HD-G2M	STC80HD-G2F	STC80HD-G3F
STC100HD-□	STC100HD-G2M	STC100HD-G2F	STC100HD-G3F
STC125HD-□	STC125HD-G2M	STC125HD-G2F	STC125HD-G3F

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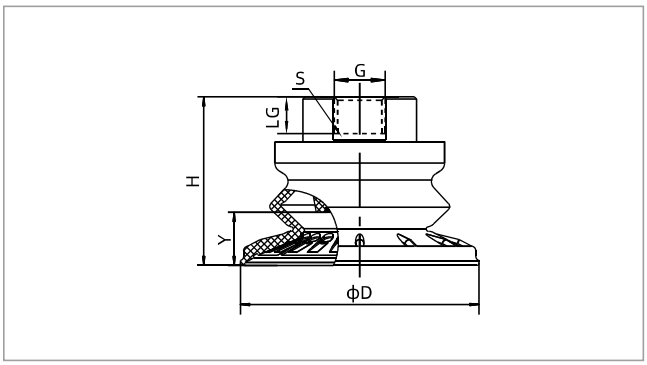
AIRBEST

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

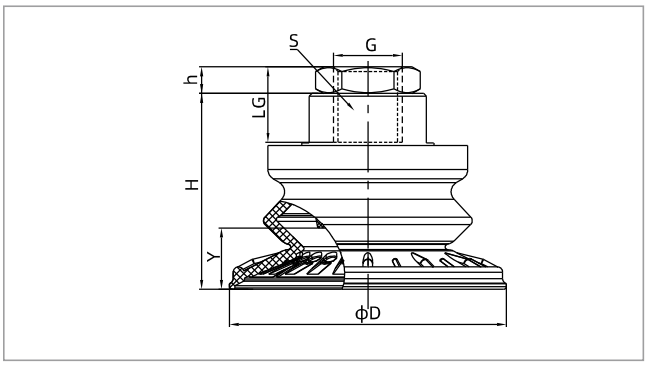
◇ Note: Testing vacuum level -60kPa, workpiece with smooth and clean surface. The data of pull-out force as above are figured out without considering safety factor. The data may be different according to different workpiece surfaces

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	5	13	9	11.5
STC60□-G2F	62.5	41	G1/4	5	13	9	14.5
STC80□-G2F	82	49.5	G1/4	5	13	9	22.5
STC100□-G2F	103	55	G1/4	5	13	9	25
STC125□-G2F	128	68	G1/4	5	13	9	32

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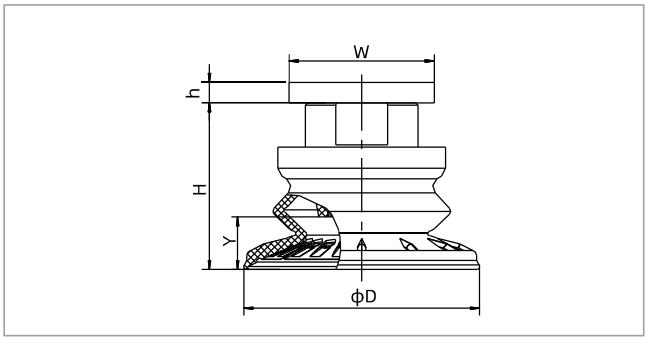
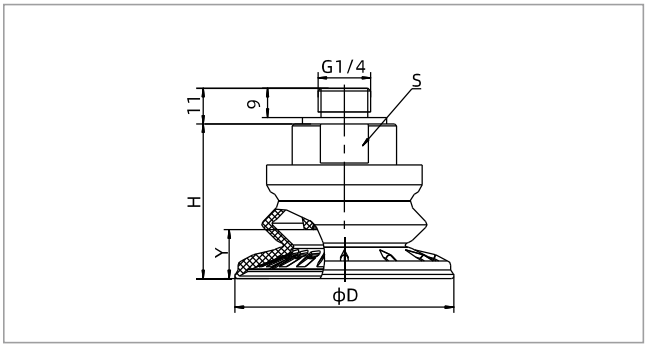
Dimensions(mm)



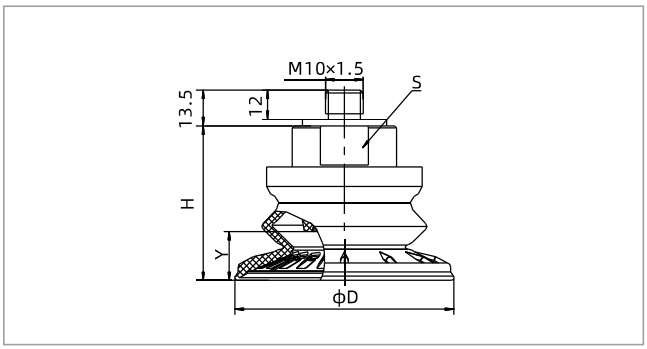
RA - Rectangular adapter

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



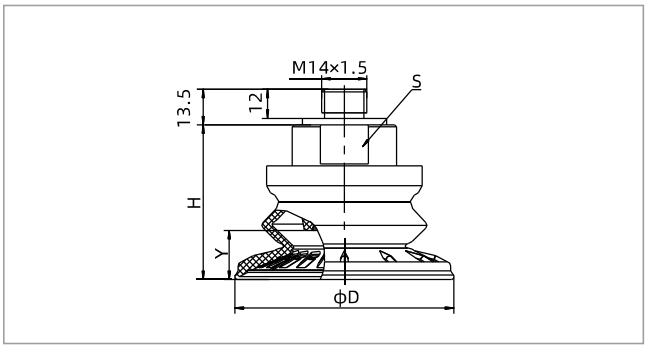
M - Male thread

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



M - Male thread

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



M - Male thread

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
STC60□-M14M	62.5	41	22	14.5
STC80□-M14M	82	49.5	22	22.5
STC100□-M14M	103	55	22	25
STC125□-M14M	128	68	22	32

◇ Note: The dimensional tolerance conforms to GBT3672.1-2002-1 M3 rubber product dimensional tolerance standard