

MAX Bell-Shaped Suction Cups for Handling Sheet Metal

Size: 30-115mm

Material: TPE



Sheet
metal



Skid
resistance



Greasy
surface



Longlife

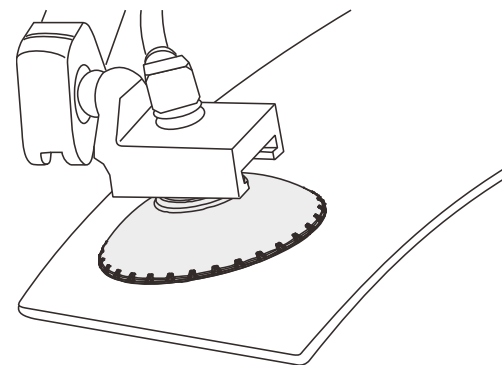


Introduction

- Bell-shaped, specially structured suction cup for maximum holding force at high accelerations, especially on oily metal sheets
- Lightweight design of the tooling ideal for high-speed applications
- Very good adaptation to different workpiece contours thanks to the significantly increased stroke of the suction cup
- Flexible sealing lip seals very well even on rough workpiece surfaces

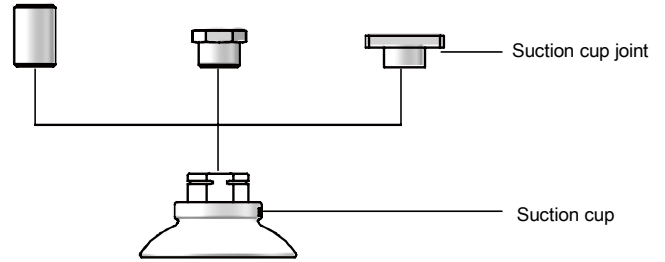
Application

- High-speed suction cups with very low weight for high holding and lateral forces for fast handling of sheet metal and car body parts
- Handling of workpieces with oily surfaces
- Loading and unloading of CNC metalworking and laser cutting machines
- Handling of sheet metal blanks during destacking
- Handling of workpieces with convex surfaces



Structure

- Lightweight, round bell-shaped suction cup with flexible sealing lip and optimal internal structure
- Wear-resistant material TPE of suction cup
- Vulcanized connection nipple out of reinforced plastics (very high strength)
- Available as assembled suction cups with various connection types



purchase guide

MAX 30 TPE G1/4-AG

① ② ③ ④

① Product series	② Size specification	③ Material and Shore hardness	④ Connection
MAX	30 - 30mm 40 - 40mm 50 - 50mm 60 - 60mm 80 - 80mm 100 - 100mm 115 - 115mm	TPE - 80°	G1/4-AG - G1/4 male thread G1/4-IG - G1/4 female thread G3/8-AG - G3/8 male thread G3/8-IG - G3/8 female thread M10× 1.5-AG - M10× 1.5 male thread M16× 1.5-AG - M16× 1.5 male thread RA rectangular adapter <small>Note:AG=MalethreadIG=Femalethread</small>

Model specifications

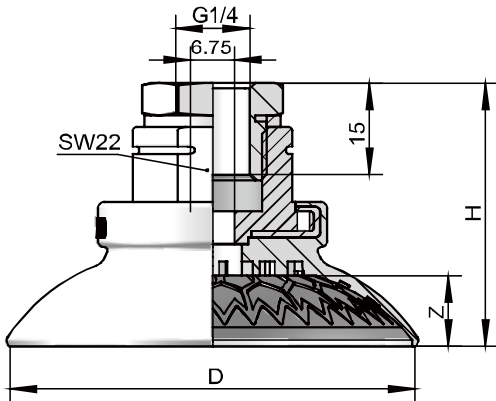
Model specification	G1/4-AG	G1/4-IG	G3/8-AG	G3/8-IG	M10× 1.5-AG	M16× 1.5-AG	RA rectangular adapter
MAX 30...	●	●	●	●	●	●	●
MAX 40...	●	●	●	●	●	●	●
MAX 50...	●	●	●	●	●	●	●
MAX 60...	●	●	●	●	●	●	●
MAX 80...	●	●	●	●	●	●	●
MAX 100...	●	●	●	●	●	●	●
MAX 115...	●	●	●	●	●	●	●

Technical parameters

Model	Suction force N	Lateral force N	Lateral force applied to greasy surface	Internal Volume cm ³	Minimum radius of curvature of workpiece mm (convex)
MAX 30...	39	38	41	3.2	18
MAX 40...	69	49	71	8.5	25
MAX 50...	109	74	110	15.2	25
MAX 60...	154	107	155	25.2	30
MAX 80...	270	192	269	51	33
MAX 100...	412	284	414	96	40
MAX 115...	549	390	584	142	50

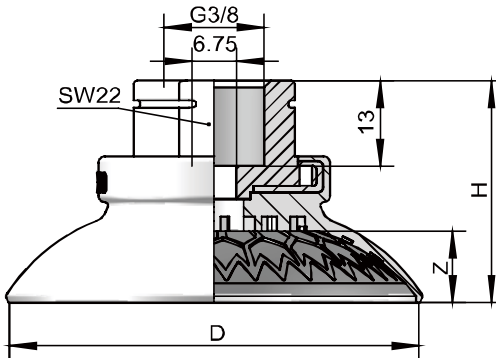
Design parameters

MAX... G1/4-IG



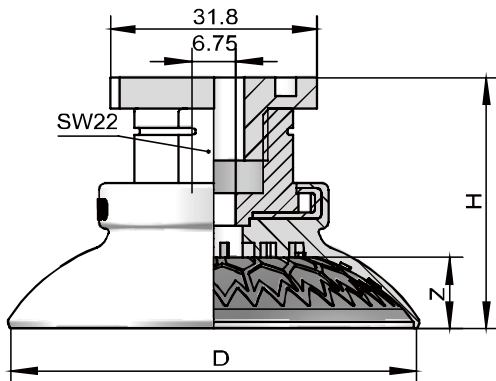
Model	Size (mm)			
	dn	d	H	Z
MAX30 TPE G1/4-IG	6.75	31.7	32.8	4.5
MAX40 TPE G1/4-IG	6.75	41.3	36.1	7.1
MAX50 TPE G1/4-IG	6.75	51.5	36.4	8.4
MAX60 TPE G1/4-IG	6.75	61.5	40.2	10.9
MAX80 TPE G1/4-IG	6.75	81	41.3	13.9
MAX100 TPE G1/4-IG	6.75	100.1	46.5	17.3
MAX115 TPE G1/4-IG	6.75	116.0	49.4	20.2

MAX... G3/8-IG

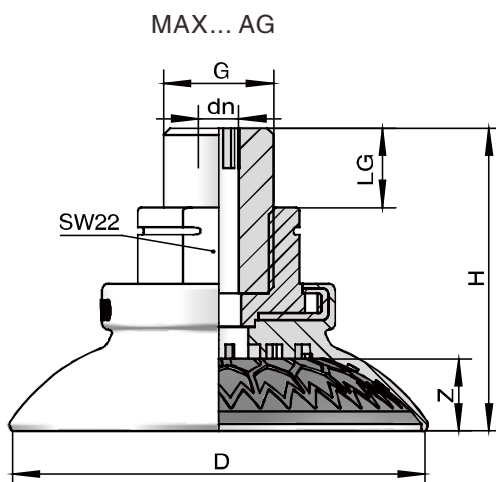


Model	Size (mm)			
	dn	d	H	Z
MAX30 TPE G3/8-IG	6.75	31.7	26	4.5
MAX40 TPE G3/8-IG	6.75	41.3	29.3	7.1
MAX50 TPE G3/8-IG	6.75	51.5	29.6	8.4
MAX60 TPE G3/8-IG	6.75	61.5	33.4	10.9
MAX80 TPE G3/8-IG	6.75	81	34.5	13.9
MAX100 TPE G3/8-IG	6.75	100.1	39.7	17.3
MAX115 TPE G3/8-IG	6.75	116.0	42.6	20.2

MAX... RA



Model	Size (mm)			
	dn	d	H	Z
MAX30 TPE RA	6.75	31.7	30.7	4.5
MAX40 TPE RA	6.75	41.3	34	7.1
MAX50 TPE RA	6.75	51.5	34.3	8.4
MAX60 TPE RA	6.75	61.5	38.1	10.9
MAX80 TPE RA	6.75	81	39.2	13.9
MAX100 TPE RA	6.75	100.1	44.4	17.3
MAX115 TPE RA	6.75	116.0	47.3	20.2



Model	Size (mm)						
	dn	d	G	H	LG	Z	
MAX30 TPE G1/4-AG	6.10	31.7	G1/4-AG	26	15	4.5	
MAX30 TPE G3/8-AG	6.10	31.7	G3/8-AG	26	12	4.5	
MAX30 TPE M10-AG	4.10	31.7	M10-AG	26	15	4.5	
MAX30 TPE M16-AG	6.10	31.7	M16-AG	28	12	4.5	
MAX40 TPE G1/4-AG	6.10	41.3	G1/4-AG	29.3	15	7.1	
MAX40 TPE G3/8-AG	6.10	41.3	G3/8-AG	29.3	12	7.1	
MAX40 TPE M10-AG	4.10	41.3	M10-AG	29.3	15	7.1	
MAX40 TPE M16-AG	6.10	41.3	M16-AG	29.3	12	7.1	
MAX50 TPE G1/4-AG	6.10	51.5	G1/4-AG	29.6	15	8.4	
MAX50 TPE G3/8-AG	6.10	51.5	G3/8-AG	29.6	12	8.4	
MAX50 TPE M10-AG	4.10	51.5	M10-AG	29.6	15	8.4	
MAX50 TPE M16-AG	6.10	51.5	M16-AG	29.6	12	8.4	
MAX60 TPE G1/4-AG	6.10	61.5	G1/4-AG	33.4	15	10.9	
MAX60 TPE G3/8-AG	6.10	61.5	G3/8-AG	33.4	12	10.9	
MAX60 TPE M10-AG	4.10	61.5	M10-AG	33.4	15	10.9	
MAX60 TPE M16-AG	6.10	61.5	M16-AG	33.4	12	10.9	
MAX80 TPE G1/4-AG	6.10	81.0	G1/4-AG	34.5	15	13.9	
MAX80 TPE G3/8-AG	6.10	81.0	G3/8-AG	34.5	12	13.9	
MAX80 TPE M10-AG	4.10	81.0	M10-AG	34.5	15	13.9	
MAX80 TPE M16-AG	6.10	81.0	M16-AG	34.5	12	13.9	
MAX100 TPE G1/4-AG	6.10	100.1	G1/4-AG	39.7	15	17.3	
MAX100 TPE G3/8-AG	6.10	100.1	G3/8-AG	39.7	12	17.3	
MAX100 TPE M10-AG	4.10	100.1	M10-AG	39.7	15	17.3	
MAX100 TPE M16-AG	6.10	100.1	M16-AG	39.7	12	17.3	
MAX115 TPE G1/4-AG	6.10	116.0	G1/4-AG	42.6	15	20.2	
MAX115 TPE G3/8-AG	6.10	116.0	G3/8-AG	42.6	12	20.2	
MAX115 TPE M10-AG	4.10	116.0	M10-AG	42.6	15	20.2	
MAX115 TPE M16-AG	6.10	116.0	M16-AG	42.6	12	20.2	