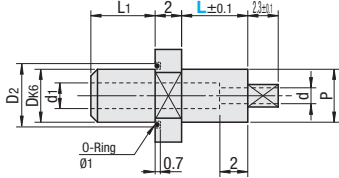


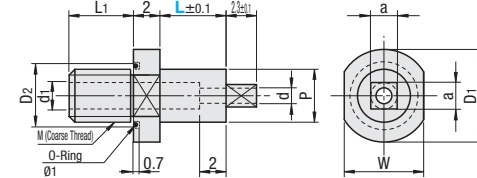
Holder for Mini Suction Cups, Mini Suction Cups

Holder for Mini Suction Cup

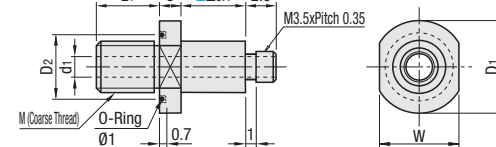
MHLD (Press-Fit Type)



MHLDM (Threaded)



MHLDK



MHLDK can be used in combination with vacuum attachment of P.1720.
M Body 303 Stainless Steel
O-Ring NBR (JIS B2401 1 Type A)

RoHS

Part Number Type	No.	L Selection	a Tolerance		M Coarse	Dk6	P	d	d1	L1	D1	D2	W	MHLD Unit Price		MHLDM Unit Price		MHLDK Unit Price	
			Qty. 1-9	Qty. 10-19										Qty. 1-9	Qty. 10-19	Qty. 1-9	Qty. 10-19		
MHLD	1.7	5 10 15	1.7	0	M5	5	5	1.2	2	6	9	7	8	8.90	6.90	8.90	6.90	-	-
MHLDM	2.7		2.7	-0.03	M6	6	6	2.3	3	8	10	8	9	9.60	7.50	9.60	7.50	-	-
MHLDK	5		-	-	-	M5	-	5	-	2	6	9	7	8	-	-	-	-	8.70
	6				M6	-	6	-	2	8	10	8	9	-	-	-	-	9.00	6.70

Order Example: Part Number - L
Example: MHLD1.7 - 10

Days to Ship: 6 Days

Express A \$3.00/piece

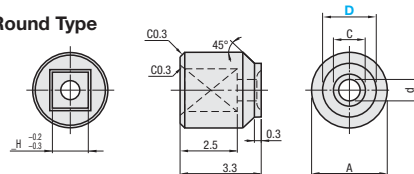
Non-Returnable P.92

Flat charge of \$8.10 for 3 or more identical pieces.

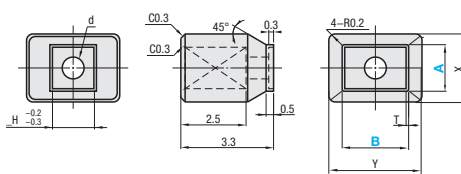
Mini Suction Cups

Type	M	H	Heat Resistance Temp.	Electric Resistance
Round Square	Nitrile Rubber (Black)	Shore A80	-20~150°C	1.0x10 ¹⁰ Ω
Round Square	Silicon Rubber (Black)	Shore A60	-70~200°C	1.0x10 ¹⁰ Ω

Round Type



Square Type



Part Number Type	D	C	A	d	H	Applicable Holders	Unit Price Qty. 1-19	Unit Price Qty. 1-19	
<Round Type> RBTR SCTR	1	-	-	0.5	-	MHLD	3.00	4.50	
	1.25	-	-	0.5	-	MHLDM	3.00	4.50	
	1.5	0.9	-	0.5	1.7	MHLD	3.00	4.50	
	1.75	1.2	4	0.5	1.7	MHLDM	3.00	4.50	
	2	1.4	-	0.5	1.7	MHLD	3.00	4.50	
	2.5	1.9	-	0.5	1.7	MHLDM	3.00	4.50	
	3	2.3	-	0.5	1.7	MHLD	3.00	4.50	
<Square Type> RBTS SCTS	4	3.2	5	0.5	1.7	MHLD	4.00	5.50	
	5	4.2	7	0.5	1.7	MHLDM	4.00	5.50	
	6	4.9	-	0.5	2.7	MHLD	4.00	5.50	
	7	5.9	-	0.5	2.7	MHLDM	4.00	5.50	
	2.5	5	4	6	0.4	1.7	MHLD	4.00	5.50
	3	6	7	9	0.5	1.7	MHLDM	4.00	5.50
	4	8	5	9	0.5	1.7	MHLD	4.00	5.50
	5	10	6	10.5	0.5	1.7	MHLDM	4.00	5.50
	6	12	6.5	12.5	0.5	2.7	MHLD	4.00	5.50
	7	14	7.5	14.5	0.5	2.7	MHLDM	4.00	5.50

Part Number Type	A	B	X	Y	T	d	H	Applicable Holders	Unit Price Qty. 1-19	Unit Price Qty. 1-19
<Square Type> RBTS SCTS	2	4	-	-	-	0.4	1.7	MHLD	4.00	5.50
	2.5	5	4	6	0.4	1.7	MHLDM	4.00	5.50	
	3	6	7	9	0.5	1.7	MHLD	4.00	5.50	
	4	8	5	9	0.5	1.7	MHLDM	4.00	5.50	
	5	10	6	10.5	0.5	1.7	MHLD	4.00	5.50	
	6	12	6.5	12.5	0.5	2.7	MHLDM	4.00	5.50	
	7	14	7.5	14.5	0.5	2.7	MHLD	4.00	5.50	

Order Example: Part Number - B
Example: RBTR2 - 5

Days to Ship: 3 Days

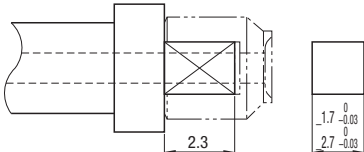
Quantity	Price List	5%	10%
1-19			
20-49			
50-			

For large quantity orders "Days to Ship" may differ from published catalog term. P.91

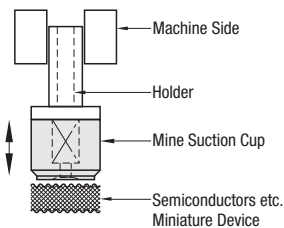
What is Mini Suction Cup

This is a pad for absorption, developed to definitely absorb, attach and remove miniature devices without damaging them. This can be of course used for manufacturing and inspection of semiconductors, as with die holders and IC handlers, and can be also used for absorption of devices for packaging equipment.

Holder End Machining Guide



EX Example



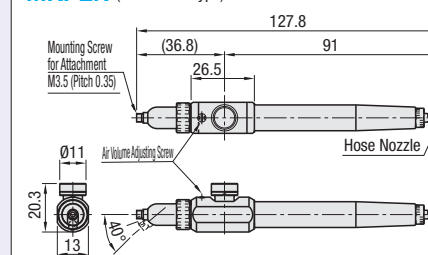
Features

- Makes no scratch on devices.
- Easy replacement by sharing the holder insert part.
- Devices can be definitely absorbed and attached or removed.

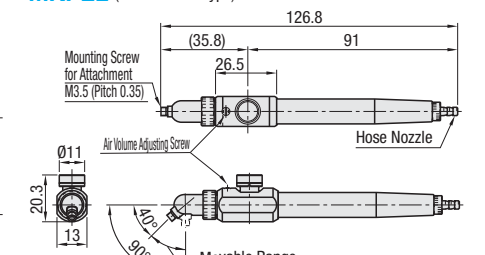
Although up to size and shape of device, the tip of Mini Suction Cup is selectable, holder insertion part has only 2 types to select, and used in common, to provide easy insertion and replacement of this product. To absorb, use it while applying air pressure. To remove, stop the air pressure. The surface of the absorptive portion of the mini suction cups is treated with satin finish, providing easy device removal. The material of RBTR · RBTS is NBR (Nitrile Rubber) and can absorb (convey) with no scratch on devices. The material of SCTR · SCTS is silicon rubber and excels in chemical, heat, low temperature and weather resistance.

Vacuum Pens

MKPEN (0~40 Bent Type)



MKPEL (40~90 Bent Type)



Part Number Type	Applicable Tube Inner Diameter	A	MKPEN Unit Price Qty. 1-2	MKPEN Unit Price Qty. 3 or more	MKPEL Unit Price Qty. 1-2	MKPEL Unit Price Qty. 3 or more
MKPEN MKPEL	3	Ø3 Silicon Tubes L=1m	114.80	103.30	138.60	124.80

Features

- Press the button lightly to adsorb and release finger to detach.
- Air volume control function makes smooth adsorption and detachment.
- Air inflow can be changed by adjustment screw depending on weight and size of adsorption object.

Vacuum Attachments

-Chip Type-



Type	M	S	Heat Resistance Temp.	Electric Resistance
NICR	Low Cadmium Brass	Nickel Chrome Plating	800°C	-
NIFE	PTFE (Teflon)	-	260°C	10 ¹⁴ Ω

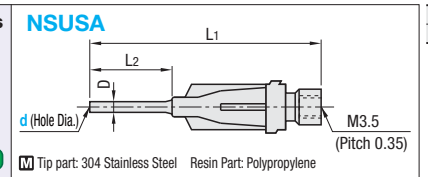
Features

- Brass Teflon : Low cost and heat resistant
- : As the material is soft, the adsorbing work is not easily scratched, and it is excellent in chemical resistance.

Please use in combination with Holder for Mini-Vacuum Suction Cup Tip Threaded (MHLDK P.1719) and Vacuum Pen (MKPEN, MKPEL).

Vacuum Attachments

-Fine Type-

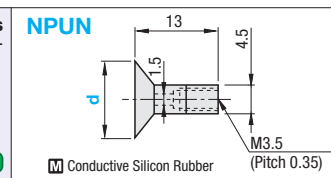


Part Number Type	d	D	L1	L2	NSUSA Unit Price Qty. 1-9	NSUSA Unit Price Qty. 10 or more
NSUSA	0.10	0.23	29.35	6.35	22.00	17.50
	0.15	0.3				
	0.20	0.41				
	0.33	0.64				
	0.51	0.81	35.7	12.7		
	0.84	1.27				
	1.37	1.65				
	1.52	1.83				

Part Number Type	d	NICR Unit Price Qty. 1-9	NICR Unit Price Qty. 10 or more	NIFE Unit Price Qty. 1-9	NIFE Unit Price Qty. 10 or more
NICR NIFE	0.3				
	0.4				
	0.5				
	0.6				
	0.7				
	0.8				
	1.0	11.00	9.50	16.00	12.00
	1.2				
	1.5				
	2.0				
	2.5				
3.0					
3.5					
4.0					

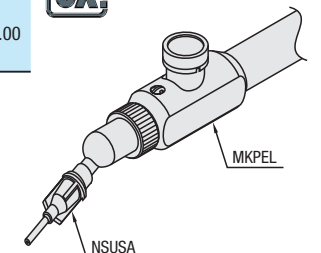
Vacuum Attachments

-Conductive Rubber Suction Type-



Part Number Type	d	NPUN Unit Price Qty. 1-9	NPUN Unit Price Qty. 10 or more
NPUN	6	20.00	15.00
	10		
	15		
	20		

EX Example



Order Example: Part Number
Example: MKPEN
NICR0.3

Days to Ship: 3 Days