Suction Cup Basic Performance

Seri	es	PF	PFO	PU	PA	PQ	PN	PN-B	PJ	РВ	PC	PL	PH	PW	PCD	PD	PR	PK2	PK2B	PK2L	R	Α	CORE	PP	SM
			Flat type			Thin type		Bellows type			I		Deep type	Oval type	Ring type	Foam type	Type for round bar		High durability		Mark-free Cube type			Cube type	React with
Туре	-							2 bellows type	2 bellows type	2 bellows type	3 bellows type	Multiple bellows	With great	With long	Custian sumface is	Made of foom	Custian sumfore is			T	RA treatment (Reduc	e the marks to the limit)	Core for cup	Cuparamall	metal detector
	_		With oily grooves	Swivel type	Flat type	Non-rotation flat type		For pouch film	With thin lip	With thick lip		туре	With great internal depth	With long and round shape	Suction surface is ring-shaped	Made of foam (sponge)	Suction surface is cylindrical shaped	Standard	Bellows type	Oval type	Standard	Bellows type	For PJ series	Super small with square shaped	
	е						8								0	0	1								
Workp	ieces	Workpieces with smooth and even surfaces. Workpieces whose surfaces are not horizontal.			Workpieces wi	ith smooth surfaces th	at easily change shape	When there is no space for attaching suction cups. When the suction surface is oblique.		spring type	ing type For uneven or soft workpieces.		Where gripping space is limited and when lifting force is desired.	Workpieces that are ring shaped, such as CD and DVD discs.	For gripping uneven workpieces with surfaces such as those of block tiles.	For gripping workpieces with cylindrical shape.		lboard, construction n tomobile steel sheets			that are sensitive narks.	Besides being mark free it also prevents deformation of thin workpieces and adhesion.	Used exclusively for gripping small objects such as semiconductor chips.	For detecting the cup fragments by the metal detector.	
ТурісаІ м	Flat			0	0	0	0	0		0	0	0		0	Ring-shaped	0	×			0			0		
kpiece surfaces and shapes Oblinition October Signature of the control of the c	Waved	×	×	×	\triangle	×	\triangle	0		0	0	0	×	×	×	0	×	×	×	×	×	×	×	×	Refer to
	Oblique	×	×	O Note1)	×	×	×	×	Note2)	O Note2)	Note2)	0	×	×	×	×	×	×	0	×	×	Note2)	×	×	o each su
	Different heights	×	×	×	×	×	×	×	×	×	X	×	×	×	×	0	×	×	×	×	×	×	×	×	action cu
	Convex	×	×	×	×	×	×	×	\triangle	Δ	0	Δ	0	×	×	0	Cylindrical shaped	Δ	Δ	Δ	×	×	×	×	o series
∴: Not suitable ×: Cannot be used	Oily	\triangle		×	Δ	×	×	×	×	\triangle	×	×	×	Δ	×	×	×	0	0	0	×	×	×	×	
Examples applicable w	of other orkpieces				Paper, vinyl, pouch film							Food pack	Sphere		CD/DVD	Striped metal sheets	Round rods, pipes	Cardboard / construction materials / automobile steel sheets/pressed objects			Semiconductor chips/Glass Se			Semiconductor chips	Food/Food packing
Cup s		\$\phi_1, \phi_1.5, \phi_2,\$ \$\phi_3.5, \phi_5, \phi_6,\$ \$\phi_8, \phi_10, \phi_15,\$ \$\phi_20, \phi_25, \phi_30,\$ \$\phi_35, \phi_40, \phi_50,\$ \$\phi_60, \phi_80, \phi_95,\$ \$\phi_{120}, \phi_{150}, \phi_{200} 2×4, 2.2×4.2, 3.5×7\$	φ20, φ25, φ30, φ35, φ40	φ10, φ15, φ20, φ25, φ30, φ35, φ40, φ50, φ60, φ80, φ100, φ120, φ150, φ200	φ5, φ10, φ15, φ20, φ25, φ30, φ40, φ50	φ6, φ8, φ10	φ15, φ17, φ17.6, φ18, φ20, φ23, φ24, φ24.8, φ25, φ27, φ31, φ34, φ35, φ40, φ49	φ18, φ25, φ35	φ2, φ4, φ6, φ8, φ10, φ15, φ20, φ25, φ30, φ35, φ40, φ50, φ60, φ70, φ80	φ10, φ15, φ20, φ30, φ40, φ50, φ75, φ110, φ150	φ3, φ3.5, φ5, φ7, φ10, φ15, φ18, φ20, φ30, φ40, φ60, φ90	φ20, φ30, φ40, φ50	φ30, φ45, φ65, φ90	3.5×7, 4×10, 4×20, 4×30, 5×10, 5×20, 5×30, 6×10, 6×20, 6×30, 8×20, 8×30	φ19, φ20, φ23, φ29.5, φ34, φ38, φ46	φ4, φ6.5, φ8, φ9.5, φ12, φ15, φ20, φ30, φ40, φ50, φ60, φ70, φ80, φ100	9.5×25, 12.5×23, 15×30, 32×32	φ10, φ15, φ20, φ25, φ30, φ40, φ50, φ60, φ80, φ100, φ120, φ150	φ10, φ20, φ30, φ40, φ60, φ80, φ100, φ120, φ150	60×20, 80×30, 100×40	φ1~60			0.55×0.55, 0.5×1.3, 0.8×1.6, 1.3×2.8, 2.0×2.8	φ1.5~50
Compact	fixed fitting	•	-	-	-	-	-	-	•	-	•	-	-	-	-	-	-	-	-	-	Reference each series	Reference each series		-	•
	fitting	•	•	•	•	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•	•
<u> </u>	pring fitting	•	-	-	•	-	-	-	•	•	•	-	-	-	-	-	-	-	-	-				-	•
	fitting	•	•	•	•	-	•	-	•	•	•	-	•	-	-	•	•	-	-	-				-	•
Non-rotation spring f	spring ritting	•	•	-	•	•	•	-	•		•	-	•	•	-	•	•	-	-	-				-	•
Standard mate	rial	NBR/Silicone Fluorine/Urethane Conductive NBR Conductive silicone	NBR/Silicone	NBR/Silicone Fluorine/Urethane		NBR/Silicone Fluorine/Urethane Conductive NBR Conductive silicone	Natural	NBR/Silicone Fluorine/Urethane Natural	Conductive NBR	NBR/Silicone Fluorine/Urethane Conductive NBR Conductive silicone	NBR / Silicone	Silicone	NBR/Silicone	NBR/Silicone Urethane	NBR/Silicone	CR/CR-E	NBR/Silicone	TPU (Thermoplastic polyurethane)	TPU (Thermoplastic polyurethane)	TPU (Thermoplastic polyurethane)	Mark free rubber Conductive mark free rubber	Mark free rubber Conductive mark free rubber		Fluorine / Conductive fluorine	Silicone metal
Rema	rks			Note1) Oblique angle that can be gripped:5*						Note2) Oblique angle that can be gripped:5°			For gripping spherical diameters :P.165				Diameter of suction cups for round bar : P.165					Note2) Oblique angle that can be gripped:5°			