






















Automation • Controls • Process

Suction Cups



Pads for Special Applications

Pad Form		Series	Symbol	Pad Diameter [mm]										
Mark-free Pad	Flat		—	ZP2	U, CL	ø4	ø6	ø8	ø10	ø16	ø25	ø32	ø40	ø50
			With Ribs	ZP2	H, CL/NT/FT	ø40	ø50	ø63	ø80	ø100	ø125			
			With Groove	ZP3E	UM, CL	ø32	ø40	ø50	ø63	ø80	ø100	ø125		
	Bellows		With Groove, Ball Joint Type	ZP3E	G, UM, CL	ø32	ø40	ø50	ø63	ø80	ø100	ø125		
			With Ribs and Groove	ZP3E	BM, CL	ø32	ø40	ø50	ø63	ø80	ø100	ø125		
			With Groove, Ball Joint Type	ZP3E	F, BM, CL	ø32	ø40	ø50	ø63	ø80	ø100	ø125		
Resin Attachment		—	ZP2	K	ø6	ø8	ø10	ø13	ø16	ø20	ø25	ø32		
For Film Adsorption		With Groove	ZP3P	PT	ø20	ø25	ø35	ø50						
Multistage		4.5 Stage	ZP2	ZJ	ø15	ø20	ø30	ø40	ø46					
		2.5 Stage 3.5 Stage	ZP2	J	ø6	ø9	ø10	ø14	ø15	ø16	ø25	ø30		
Flat Pad		With Groove	ZP2	MT	ø10	ø15	ø20	ø25	ø30					
Nozzle Type		—	ZP2	AN	ø0.8	ø1.1								
Sponge		—	ZP2	S	ø4	ø6	ø8	ø10	ø15					
For Disk Adsorption		—	ZP2	Z1										
For Panel Holding		—	ZP2	Z										
With Ball Spline Buffer		Flat Type	ZP2	U, S	ø2	ø3	ø6	ø8						
Vacuum Saving Valve		ZP2V												
Non-contact Gripper		XT661												
Magnet Gripper		MHM												

Select from Cup Form



				Basic	Compact	High Rigidity	Oval	
				ZP	ZP3	ZP3E	ZP	ZP2
Flat	Flat Type		<ul style="list-style-type: none"> For the adsorption of general workpieces For the adsorption of workpieces with flat and non-deformed surfaces 	●	●			
	Flat Type with Ribs		<ul style="list-style-type: none"> For workpieces which are likely to become deformed For the reliable release of workpieces 	●				
	Flat Type with Groove		<ul style="list-style-type: none"> For workpieces which are likely to become deformed For the reliable release of workpieces 		●	●		
	Ball Joint, Flat Type		<ul style="list-style-type: none"> For the adsorption of workpieces with inclined or curved surfaces 	●				
	Ball Joint, Flat Type with Groove		<ul style="list-style-type: none"> For adsorption of workpieces with inclined or curved surfaces For workpieces which are likely to become deformed For the reliable release of workpieces 			●		
Bellows	Bellows Type		<ul style="list-style-type: none"> For the adsorption of workpieces with inclined surface For workpieces of varying heights 	●	●			
	Bellows Type with Ribs		<ul style="list-style-type: none"> For adsorption of workpieces with inclined surfaces For workpieces of varying heights For the reliable release of workpieces 		●			
	Bellows Type with Ribs and Groove		<ul style="list-style-type: none"> To be used when adsorption surface of the workpieces is slanted For the reliable release of workpieces 			●		
	Ball Joint, Bellows Type with Ribs and Groove		<ul style="list-style-type: none"> For the adsorption of workpieces with inclined or curved surfaces For the reliable release of workpieces 			●		
Thin Flat	Thin Flat Type		<ul style="list-style-type: none"> For workpieces which are likely to become deformed 	●				
	Thin Flat Type with Ribs		<ul style="list-style-type: none"> For workpieces which are likely to become deformed For the reliable release of workpieces 	●				
Deep	Deep Type		<ul style="list-style-type: none"> For workpieces with curved surfaces 	●				
Oval	Oval Flat Type		<ul style="list-style-type: none"> For workpieces with adsorption surface limitations For use when a large adsorption area is required for long and narrow workpieces 				●	●

Basic Pad ZP Series

Pad Diameter	ø2, ø4, ø6, ø8, ø10, ø13, ø16, ø20, ø25, ø32, ø40, ø50
Pad Form	Flat Type, Flat Type with Ribs, Bellows Type, Thin Flat Type, Thin Flat Type with Ribs, Deep Type
Mounting	Male Thread, Female Thread
Vacuum Inlet Direction	Vertical, Lateral
Vacuum Inlet	Male Thread, Female Thread, One-touch Fitting, Barb Fitting
Buffer	Without, With [Buffer Stroke[mm]: 6, 10, 15, 20, 25, 30, 40, 50]
Ball Joint	Without, With (Flat Type)

12 sizes, 6 types of pad forms
The mounting bracket can be selected according to the application.



Compact Type ZP3 Series

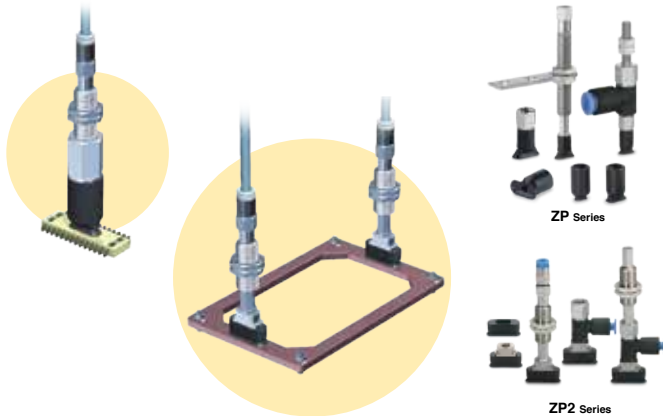
Pad Diameter	ø2, ø4, ø6, ø8, ø10, ø13, ø16, ø20, ø25, ø32, ø40, ø50
Pad Form	Flat Type, Flat Type with Groove, Bellows type, Bellows Type with Ribs
Mounting	Male Thread, Female Thread
Vacuum Inlet Direction	Vertical, Lateral
Vacuum Inlet	Male Thread, Female Thread, One-touch Fitting, Barb Fitting
Buffer	Without, With [Buffer Stroke[mm]: 3, 6, 10, 15, 20]



Oval Pad ZP/ZP2 Series

Pad Diameter	2x4, 3.5x7, 4x10, 4x20, 4x30, 5x10, 5x20, 5x30, 6x10, 6x20, 6x30, 8x20, 8x30
Pad Form	Oval Flat Type
Mounting	Male Thread, Female Thread
Vacuum Inlet Direction	Vertical, Lateral
Vacuum Inlet	Male Thread, Female Thread, One-touch Fitting, Barb Fitting
Buffer	Without, With [Buffer Stroke[mm] ZP: 6, 10, 15, 20 / ZP2: 10, 20, 30, 40, 50]

For rectangular, vertically long, and horizontally long workpieces



High Rigidity Pad ZP3E Series

Pad Diameter	ø32, ø40, ø50, ø63, ø80, ø100, ø125
Pad Form	Flat Type with Groove, Bellows Type with Ribs and Groove
Mounting	Male thread, Female thread
Vacuum Inlet Direction	Vertical, Lateral
Vacuum Inlet	Male Thread, Female Thread
Buffer	Without, With [Buffer Stroke[mm]: 10, 30, 50]
Ball Joint	Without, With

Stable suction position, Improved ease of removal

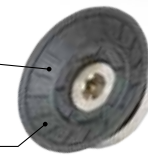
Stable suction position

Groove and rib formed to adsorb with entire surface



Improved ease of removal With groove

The dents and bumps on the adsorption surface prevent workpieces from sticking to the pad. This facilitates easy removal.



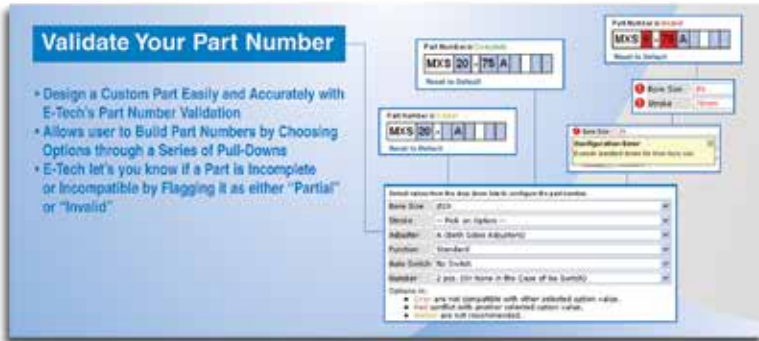
Shot-blasted

Micro-dents and bumps are formed on the adsorption surface. Workpieces can be removed easily.





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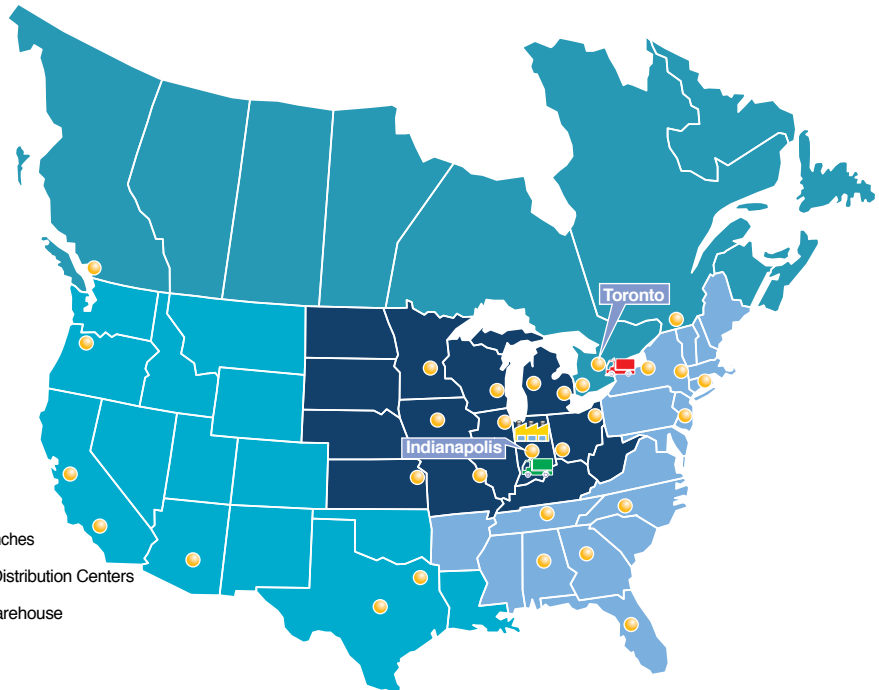
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