Applications by pad type

Flat / thin flat:

- Flat: for adsorption of general workpieces; and for adsorption of workpieces with flat and not deformed surface.
- Thin flat: for a workpiece which is likely to deform. Wrinkling or deformation during adsorption is reduced. For sheets of vinyl

Flat with rib:

- When surface is likely to deform.
- For releasing a workpiece certainly.

Sponge:

For adsorption of workpieces with bumps.

Ball joint:

To be used when adsorption surface of work is not horizontal.

Compact / short / nozzle pad:

- For adsorption of small components such as IC chips.
- Compact, space-saving.

Vacuum pad for fixing panel:

- For adsorbing and fixing the stage of panels or glass circuit board etc.
- Bellows mechanism allows complete contact with curved work surface.

Vacuum pad for transferring disks:

- For adsorbing circular components like CD and DVD.
- Bellows mechanism is realised in the pad to dampen the impact to the work.

Vacuum saving valve:

- Can restrict the reduction of vacuum pressure even when there is no workpiece.
- No need for switching operation when changing workpieces.
- Multiple vacuum pads can be operated by one ejector.
- When the workpieces have different shapes, the control circuit can be simplified.

For energy saving applications!



Bellows:

- For use where there is no space for the buffer (spring type).
- For adsorption of workpieces with inclined surface.



To be used when work is curved shape.



Oval pad:

For workpieces with limitation on the adsorption For rectangular workpieces!



For heavy or large workpieces



Long stroke buffer:

To be used when work height is not even or cushioning toward work is required.



For use where adsorption marks must no be left on workpieces:

Transferring glass substrates

- Solar cell manufacturing equipment
- Semiconductor manufacturing equipment
- FPD (Flat Panel Display) manufacturing equipment







Mark-free cyclone pad XT661:

- Workpiece with uneven and/or viscous surface.
- Workpiece sensitive to scars or suction traces.
- Workpiece with holes.
- Thin / porous workpiece:
 - Solar battery cell
 - Liquid crystal glass
 - Film, paper, lumber, etc.







Applications by pad material

Material	Application		
NBR Transfer of general work, Corrugated board, Veneer plate, Iron plate ar			
Silicone rubber	Semiconductor, Removing from die-casting, Thin work, Food processor		
Urethane rubber	Corrugated board, Iron plate, Veneer plate		
FKM	Chemical work		
Conductive NBR	General work of semiconductor (Static electricity resistance)		
Conductive silicone rubber	Semiconductor (Static electricity)		

- It is necessary to determine vacuum pad materials carefully taking into account the workpiece shape, adaptability
- in the operating environment, effect after being adsorbed, electrical conductivity, etc.

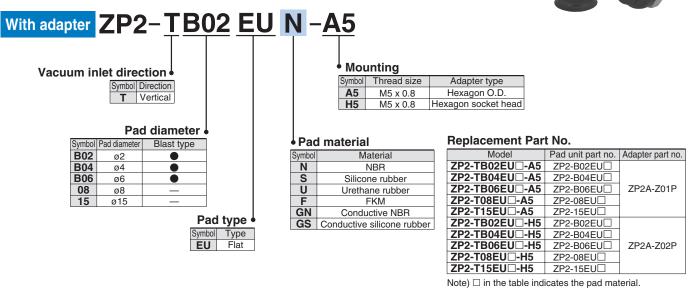
 Based on the work transfer example for each material, select after confirming the characteristics (adaptability) of rubber.



Series ZP2

How to Order



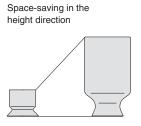


AU: Flat

Pad diameter: Ø2, Ø3, Ø4, Ø6, Ø8

How to Order







 Pad diameter

 Symbol Pad diameter
 Blast type

 02
 Ø2

 03
 Ø3

 04
 Ø4

 06
 Ø6

 B08
 Ø8

Pad type
Symbol Type
AU Flat

→ Pad material

Symbol	Material
N	NBR
S	Silicone rubber
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

Adapter

Adapter part no.	Pad unit part no.	Thread size
ZP-312-A	ZP2-02AU□; ZP2-03AU□; ZP2-04AU□	M5 x 0.8

Note) For pad units ZP2-06AU $\!\square$, ZP2-B08AU $\!\square$ please consult SMC.

