Guide

Provide a guide in accordance with the application and/or configuration of a workpiece.

1 Holding/Positioning a Workpiece

Due to non-contact, a workpiece may slide during conveyance. To hold the workpiece, provide a guide, etc. for the side of the workpiece.

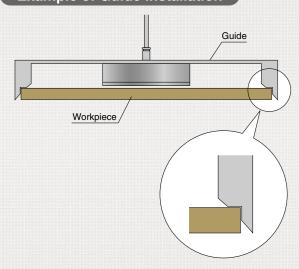
2 Preventing Contact

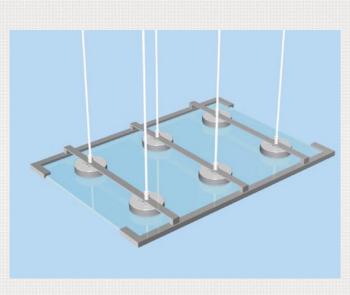
Depending on the operating conditions, the workpiece surface may contact the pad when lifted. To prevent contact, provide a guide to distance the workpiece.

3 Preventing Rotation

- 1) When using a single pad, the workpiece tends to rotate due to the cyclone effect. Provide a guide to prevent the workpiece from rotating.
- 2) When using more than one pad, use even numbered, clockwise or counterclockwise whirling pads. This can prevent the workpiece from rotating.

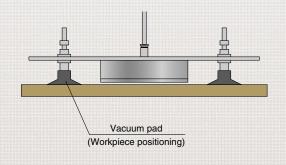
Example of Guide Installation

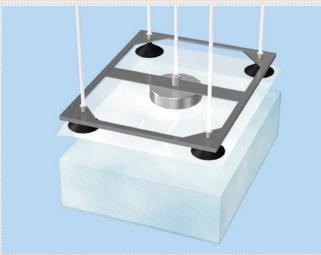




• Example of Vacuum Pad Application

The cyclone pad can reduce the amount of surface contact while fixing the workpiece.

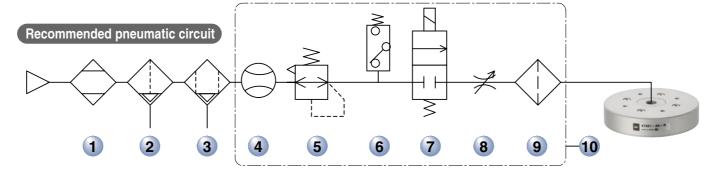




depending upon the installation condition. Decreases the air consumption.

Related Products

SMC can provide all pneumatic equipment required for supplying air to the cyclone pad.



1 Air Dryer / Series IDF

Decreases the dew point of compressed air. Limits moisture generation which can lead to



Eliminates solid foreign matters such as powder particles in the compressed air.



Mist Separator / Series AFM Eliminates oil mist which is difficult to



4 Digital Flow Switch / Series PF2A



6 Digital Pressure Switch / Series ISE30

2-Color Display Digital Flow Switch / Series PFM



PSE300

Built-in capillary element

Nominal filtration rating: 0.01 μm

Adopted hollow fiber elements with over 99.99%

filtering efficiency don't contaminate workpieces



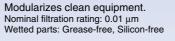
Decreases the air consumption by setting



VCA-X15 (Oil-free)

PSE540 9 Clean Air Filter / Series SFD

O Clean Air Module / Series LLB





SMC Corporation

8 Restrictor / Series AS-X21

Regulates to the appropriate air volume

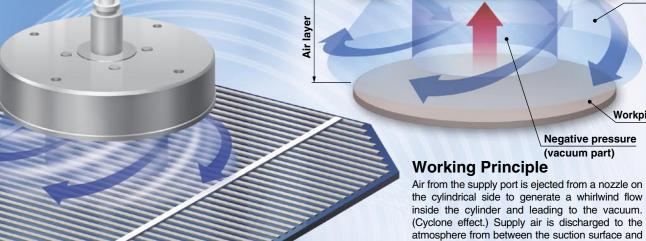
Akihabara UDX 15F, 4-14-1, Sotokanda, Chiyoda-ku, Tokyo 101-0021, JAPAN Phone: 03-5207-8249 Fax: 03-5298-5362 URL http://www.smcworld.com © 2007 SMC Corporation All Rights Reserved

Oil-free (Seal material: PTFE coat treated)

Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

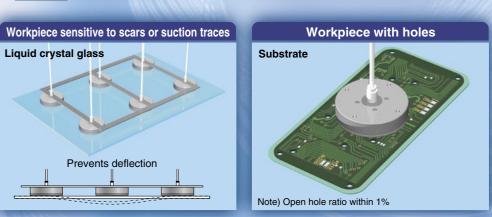
1st printing LY printing LY 13500KS Printed in Japan.

Cyclone Pad Non-contact conveyance is possible. Workpiece with uneven and/or viscous surface Solar battery cell



Reflection prevention

(viscous) film





Electrode line

Substrate

Porous workpiece



Be sure to prepare a guide prior to use.

the workpiece. As a result, an air layer is

generated between the cyclone pad and the workpiece, resulting in the workpiece being lifted

without contact.

For holding and positioning a workpiece, and for preventing collision between the workpiece and pad during lifting, provide a guide. See page 4 for details.

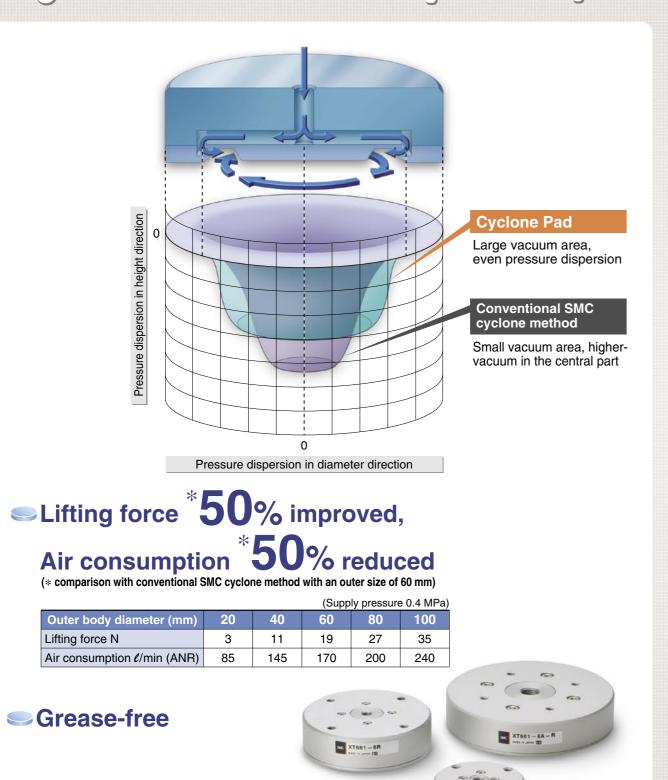
Series XT661



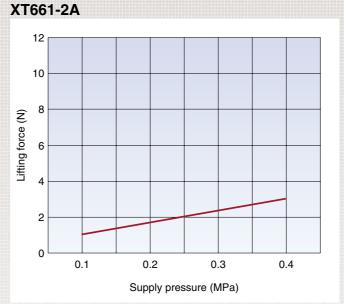


Original groove-channel design (PAT.PEND) provides cyclone effect

with larger suction area and more even pressure dispersion!



Lifting Force



0.2

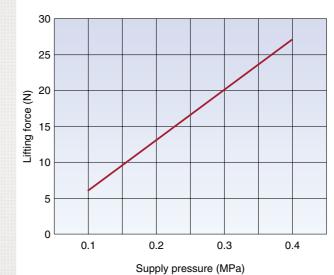
XT661-6A

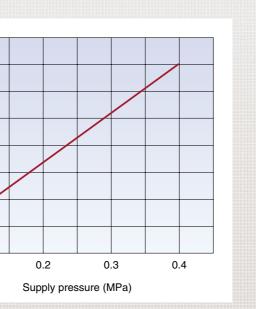
XT661-10A

XT661-4A 0.2 0.3

Supply pressure (MPa)







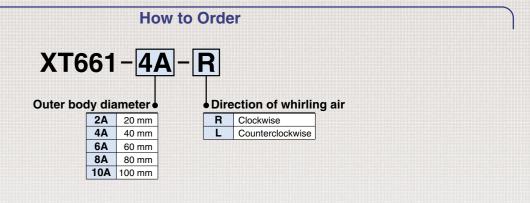
0.3

Supply pressure (MPa)





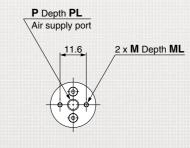
Cyclone Pad Series XT661 ø20, ø40, ø60, ø80, ø100



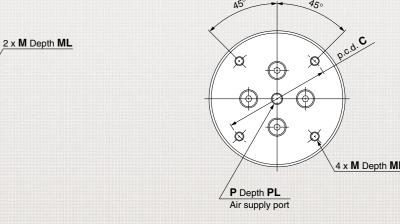
| Specifications | | | | | | | | | | | | |
|-----------------------------------|-----------------------------------|----|----|----|-----|--|--|--|--|--|--|--|
| Outer body diameter (mm) | 20 | 40 | 60 | 80 | 100 | | | | | | | |
| Piping port size | M5 x 0.8 Rc1/8 | | | | 1/8 | | | | | | | |
| Fluid | Air* | | | | | | | | | | | |
| Operating pressure | 0.01 to 0.5 MPa | | | | | | | | | | | |
| Proof pressure | 0.75 MPa | | | | | | | | | | | |
| Ambient and operating temperature | −5 to 60°C (with no condensation) | | | | | | | | | | | |
| Grease | Grease-free | | | | | | | | | | | |

^{*} Air purification rating: JIS B 8392-1 (ISO8573-1) Quality Degree 4, 4, 2





XT661-20-R (L)





| | | | | | | | (mm |
|--------------|-----|----------|----|----------|-----|------|-----|
| Model | | Р | PL | M | ML | С | D |
| XT661-20-R (| L) | M5 x 0.8 | 5 | M2 x 0.4 | 3.2 | _ | 20 |
| XT661-40-R (| L) | M5 x 0.8 | 5 | M4 x 0.7 | 5 | 32.8 | 40 |
| XT661-60-R (| L) | M5 x 0.8 | 5 | M4 x 0.7 | 5 | 47 | 60 |
| XT661-80-R (| L) | Rc1/8 | _ | M4 x 0.7 | 5 | 47 | 80 |
| XT661-100-R | (L) | Rc1/8 | _ | M4 x 0.7 | 5 | 47 | 100 |
| | | | | | | | |

