

The buffer and motor are integrated as an All-in-One unit, making the manifold configuration compact and lightweight.

Stepping motor
Select 2-phase or 5-phase

Guide pin
Compact bearing and guide groove mechanism for rotation-stop of rod

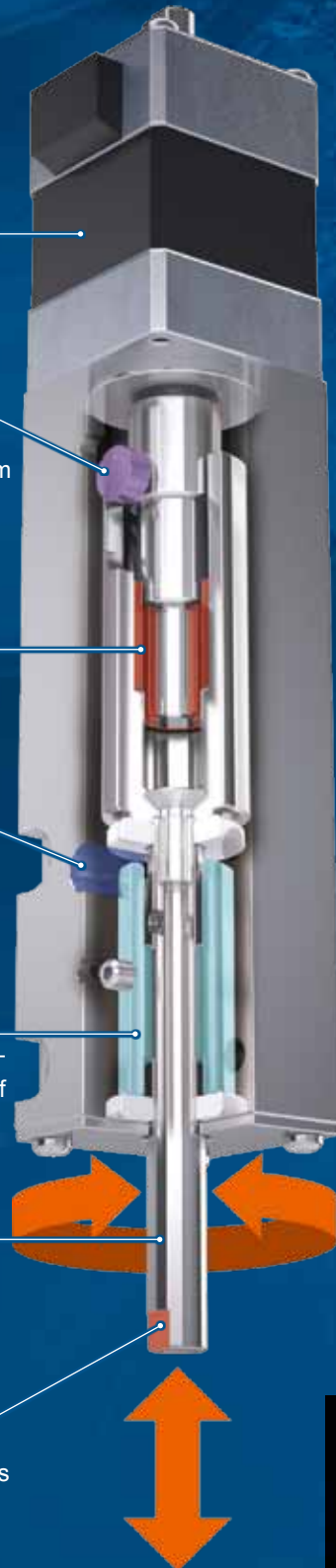
Fine buffer
(Magnetic spring cushioning mechanism)

Vacuum port
Port piping on body front

Guide bush
Ball guide bush for high-precision suppression of shaft runout

Rod
End used for vacuum suction of workpieces

Rod end with D cut
Positioning during mounting of attachments made easy



Soft touch

Using the fine buffer (magnetic spring cushioning mechanism) enables uniform pressure without relying on stroke.

Low dust generation/long service life/high performance

Low dust generation, longer service life, and higher performance than with metal springs.

Rotation deflection 0.01 mm or less

Rotation deflection of 0.01 mm or less in the ball shaft achieved.

Easy piping

Vacuum piping from the body front is possible, enabling easy handling.

Space saving

Compact and capable of manifold.

20 mm
width/pitch



Step-out prevention

Uses a bearing and guide groove rotation-stop mechanism.

High-precision suppression of shaft runout and high full return positioning accuracy enabled.

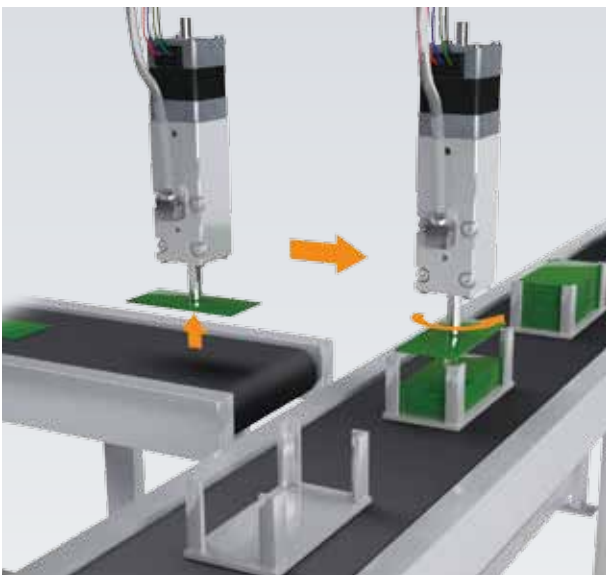
Active Fine Buffer

AFB-RB Series

Application examples

Layered transport

Transport workpieces in uniform pressure without relying on stroke.



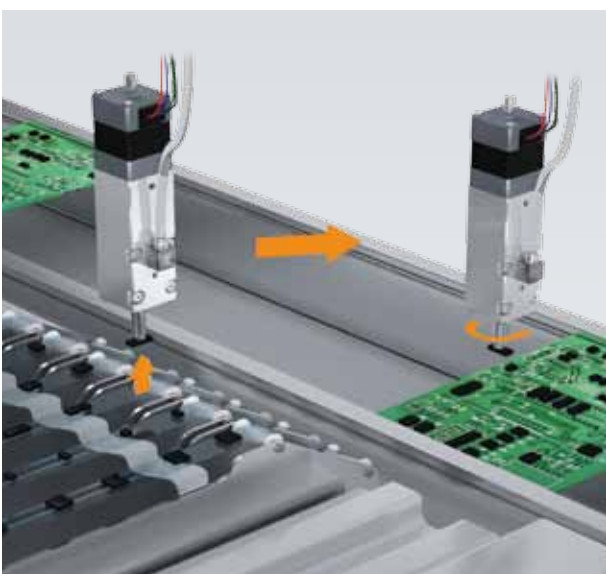
Compact camera and lens modular assembly

Multiple parts inserted sequentially into each case. Workpieces transported in uniform pressure.



Precision installation

Suppression of shaft runout and high-precision θ alignment enabled.



Rotating alignment in P&P.

Compact installation with mounting pitch of 20 mm enabled.

