

# The motor and fine buffer are integrated for buffer and rotation operations. All-in-one unit makes the manifold configuration compact and lightweight.

## Case Study

### 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.

20mm  
Width/pitch

### Step-out prevention

Uses a bearing and guide groove rotation-stop mechanism. Suppression of shaft runout and high return positioning accuracy realized.

### Select from various motors

Select from 2-phase, 5-phase and with battery-less absolute sensor.

\* Refer to the mounted motor specification for details.

Active Fine Buffer

# AFB-RB Series

Stepper motor  
Select 2-phase or 5-phase

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

Fine buffer  
(Magnetic spring shock absorption mechanism)

Vacuum port  
Port piping on body front

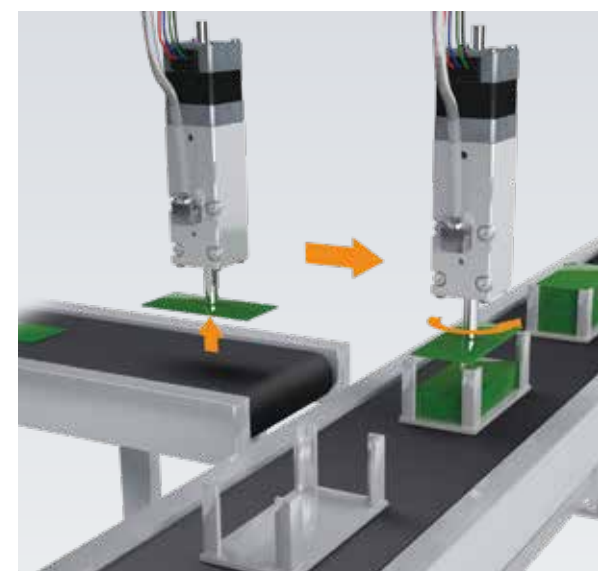
Guide bush  
High accuracy control of shaft runout by ball guide bush

Shaft  
End used for vacuum suction of workpieces

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

### Layered transport

Transport workpieces in uniform pressure without relying on stroke.



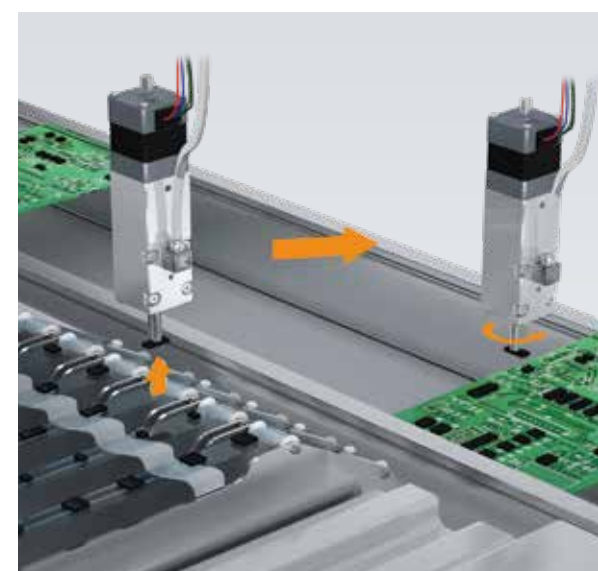
### Compact camera and lens modular assembly

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



### Precision installation

Suppression of shaft runout and high-precision  $\theta$  alignment enabled.



### Rotating alignment in P&P.

Compact installation with mounting pitch of 20 mm enabled.

