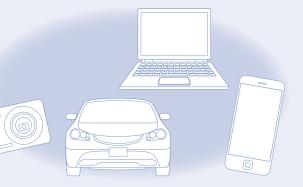
Products compatible with the environments of the secondary battery manufacturing process are available, contributing to the improvement of productivity and reduced defects.



### Series Compatible with Secondary Batteries 25A- Series

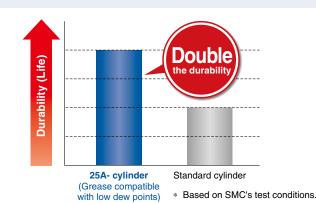


# Improved performance in environments with low dew points

Uses grease compatible with low dew points

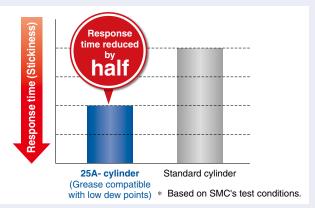
### Double the durability

Durability comparison (Air cylinder)



### Response time reduced by half

Comparison of cylinder response times after being pressurized and stored



### **Material Restrictions**

The following materials are not used in order to reduce the number of defective products produced during the secondary battery manufacturing process:

- Metal materials whose main component is either copper or zinc are not used.
  - \* Some of the aluminum alloy and aluminum die-cast materials contain traces of copper or zinc as an additive element. If a product with restrictions on the amounts of these additive elements is required, we can accommodate your needs via a special product. Please contact your local sales representative for further details.
- Electrolytic nickel plating with a copper layer or zinc plating are not used. \* Electroless nickel plating is used.
- Parts of the piston rod, clevis pin, split pin, etc., of the cylinder are made of carbon steel with hard chrome plating. Therefore, as the processed parts aren't coated, an anti-rust oil coating is applied to these parts before shipment.
  - \* Rust may be generated due to the operating environment. If the generation of rust is a problem, made-to-order options using stainless steel, etc., are available. Please contact your local sales representative for further details.
- The coils of solenoid valves, the circuit boards of electrical equipment, the motors of electric actuators, etc., use copper materials.
  - Parts whose materials cannot be easily changed to alternative ones and parts whose functions would be compromised by changing to alternative materials use copper and/or zinc materials. Please contact your local sales representative for further details.



### **Restrictions**

## Material Copper (Cu) Zinc (Zn)

Surface treatment

Electrolytic nickel plating with a copper layer
Zinc plating

(Electroless nickel plating is used.)



- \* Coils for solenoid valves, connector pins, and lead wires are made of copper.
- Manifold terminal block, wiring parts, connector metal parts, and printed circuit board are made of copper.

#### Compact Cylinder 25A-CQ2 Series



The auto switch magnet contains copper and/or zinc. (ø12)

#### Air Slide Table 25A-MXQ Series



Surface treatment: Hard chrome plating

#### Piston

Material: Stainless steel Aluminum alloy

Bolts

Surface treatment: Electroless nickel plating



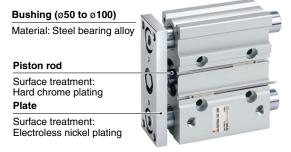


Surface treatment: Electroless nickel plating

\* The auto switch magnet contains copper and/or zinc. (ø6, ø10, ø15)

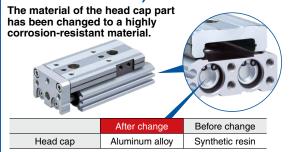
Cylinder 25A-CA2 Series Cushion valve Material: Steel bearing alloy <u>Tie-rod</u> Material: Stainless steel <u>Kounting bracket</u> Surface treatment: Electroless nickel plating

#### Compact Guide Cylinder 25A-MGPM Series



\* The auto switch magnet contains copper and/or zinc. (ø12)

#### Corrosion-resistant Air Slide Table (Made to Order: 25A-MXQD-X771, 25A-MXSD-X1949)





\* Cylinder mounting brackets made of steel are either electroless nickel plated, treated with RAYDENT®, or coated with electrodeposition paint.

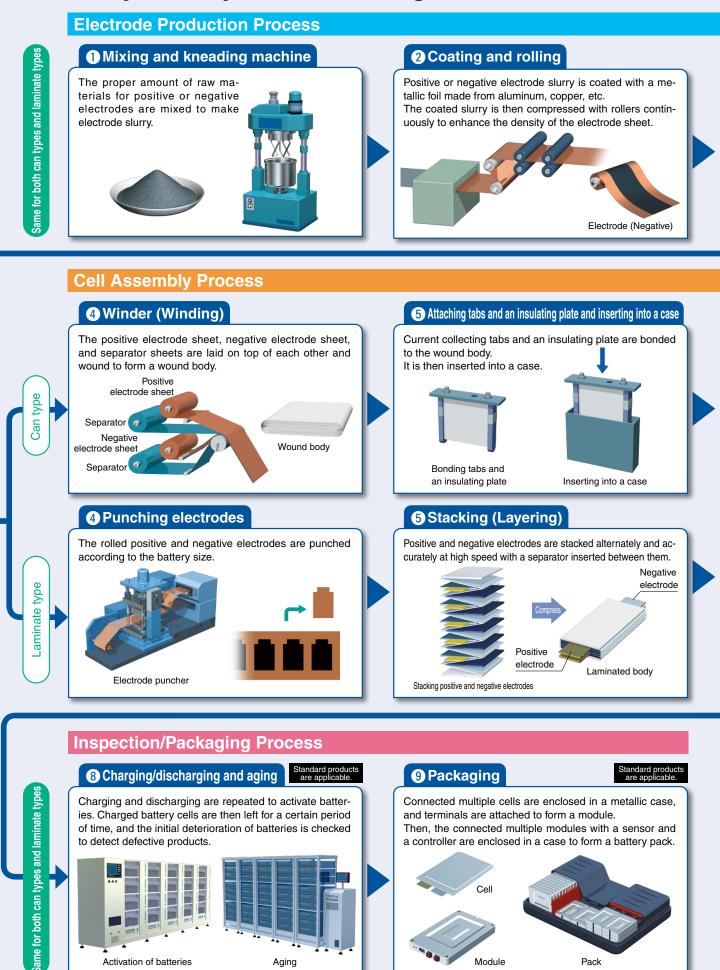


### Series Compatible with Secondary Batteries



**SMC** 

### **Secondary Battery Manufacturing Process**



**SMC** 

