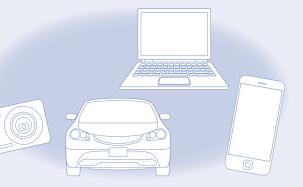
Products compatible with the environments of the secondary battery manufacturing process are available, contributing to the improvement of productivity and reduced defects.



# Series Compatible with Secondary Batteries 25A- Series

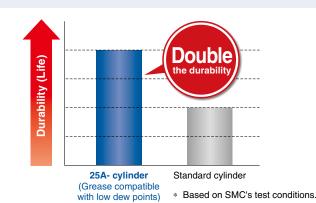


# Improved performance in environments with low dew points

Uses grease compatible with low dew points

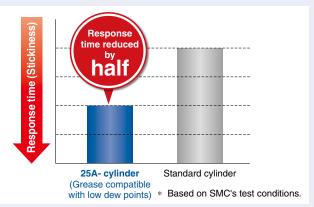
### Double the durability

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.



1

# **Restrictions**

# Material Copper (Cu) Zinc (Zn)

Surface treatment

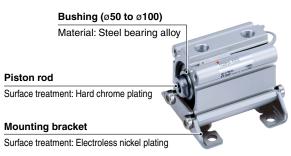
Electrolytic nickel plating with a copper layer
 Zinc plating

(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



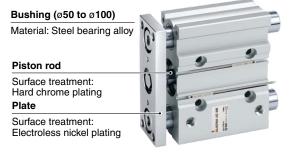


Surface treatment: Electroless nickel plating

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

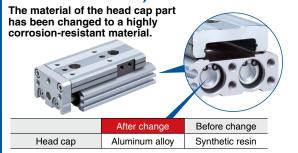
Cylinder 25A-CA2 Series Cushion valve Material: Steel bearing alloy Tie-rod Material: Stainless steel Mounting bracket Surface treatment: Electroless nickel plating

#### 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.

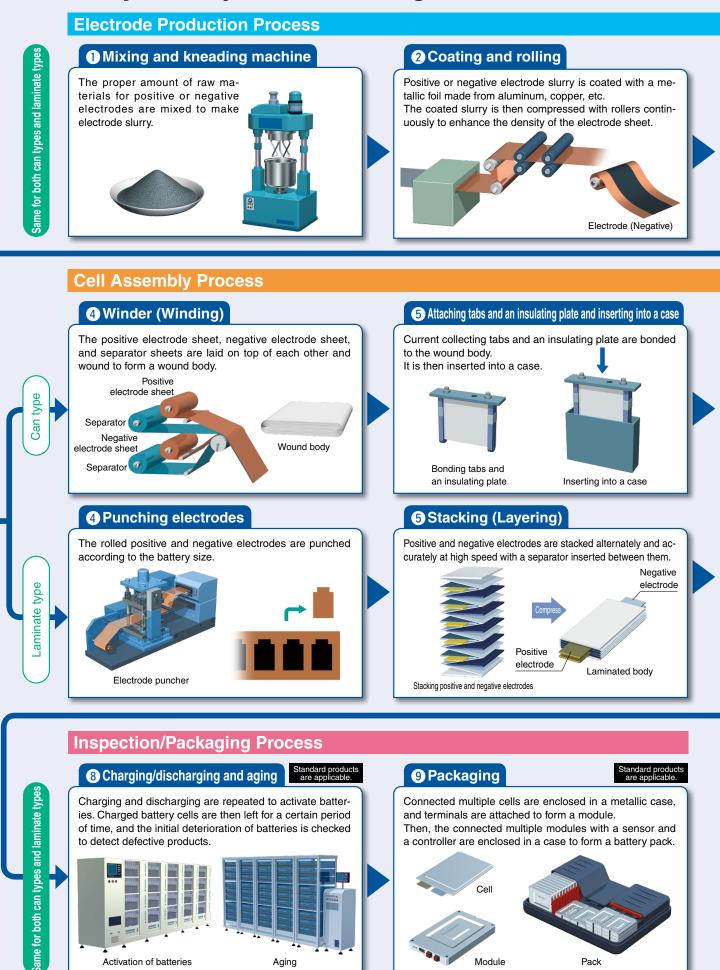


#### Series Compatible with Secondary Batteries

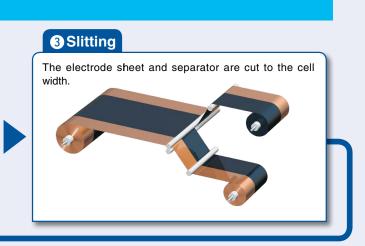


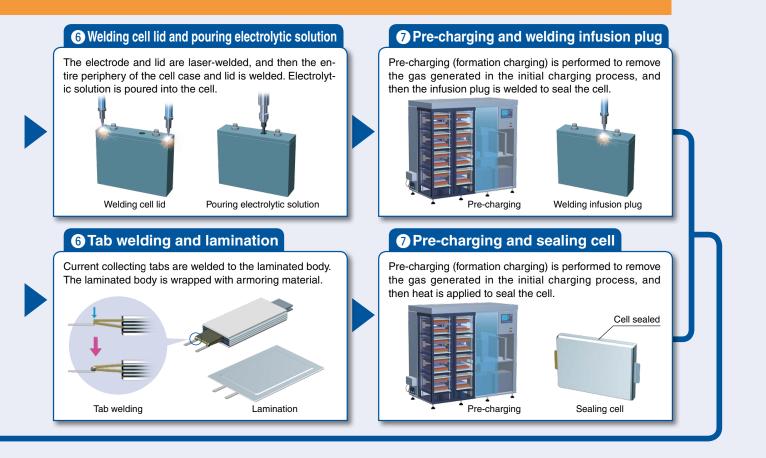
**SMC** 

# **Secondary Battery Manufacturing Process**



**SMC** 









# **25A-** Series Applicable Products

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Air Management System	Air Management System	25A-AMS/20/30/40/60	14-1
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	New	25A-JSY1000/3000 (Non plug-in metal base)	29
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	- Constante	25A-SY5000/7000 (Single unit, Individual wiring)	63
		25A-VQ2000/4000 (Single unit, Plug-in unit)	73
	•	25A-SQ2000 (Plug-in type, Plug lead type)	87
	52×	25A-VQZ1000 (Single unit, Plug lead)	91
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ntro		25A-VP344/544/744 (Base mounted)	97
ပိ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25A-VP500/700-X536, X538, X555	98
nal		25A-VT317	99
ctic		25A-VG342	100
Dire	5-Port Air Operated Valve	25A-SYA5000/7000	101
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S	New New	25A-CM2 (Ø20 to Ø40)	112
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Cyli	42	25A-CBG1 (End lock) (Ø20 to Ø63)	114
Air (		25A-MB (ø32 to ø100)	115
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omp Vlino	Free Mount Cylinder	25A-CU (010 to 032)	122
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7		<b>⊘</b> SMC	

	Description	Carico	Dama
	Description	Series	Page
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ylino		25A-CQ2 (ø12 to ø100)	127
vir C		25A-CQ2W (Double rod) (Ø12 to Ø100)	128
act ⊿		25A-CQ2 (Large bore size) (Ø125 to Ø200)	129
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ပိ	Q:	25A-CQ2⊡S (Anti-lateral load) (ø32 to ø100)	131
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uden		25A-MY1H (Linear guide) (Ø16 to Ø40)	137
Cylir	New	25A-MY2C (Cam follower guide) (ø16 to ø40)	138
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sodle		25A-MY3A/B (ø16 to ø63)	140
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ylinc	- Alana	25A-MXQ□C (Single side-ported type) (ø8/ø12)	148
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		are not used as main components in the motel materials. Befor to the Web Catalog	-

\*1 Standard products: For the standard model, copper (Cu) and zinc (Zn) are not used as main components in the metal materials. Refer to the Web Catalog for details.

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ntro		KPG (Clean One-touch fittings)	260
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	1 Standard products: For the standard model, copper (Cu) and zinc (Zn) are not used as main components in the metal materials. Befer to the Web Catalog for details		

\*1 Standard products: For the standard model, copper (Cu) and zinc (Zn) are not used as main components in the metal materials. Refer to the Web Catalog for details.
 \*2 Pressure gauge mounting: The G43-10-01-X300/G46-SRB pressure gauge cannot be mounted directly to the booster regulator as it will interfere with the booster regulator (25A-VBA10A) handle or the other pressure gauge (for the 25A-VBA20A/40A). In order to mount the pressure gauge, piping which does not cause any interference must be prepared separately.
 \*3 Aside from the external parts and wetted parts, copper (Cu) and zinc (Zn) are used as main components in the metal materials.



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che		25A-PFM3 (For air, Flow monitor)	277
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ectic	New	25A-PF3A7□H-L (IO-Link)	280
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ors	New	25A-LEKFS (High rigidity and High precision slider type/AC servo motor: Applicable to the LECY	298-8
uato	New	25A-LEKFS (High rigidity and High precision slider type/Motorless type)	298-9
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tric	New	25A-LEFS (Slider type/Incremental (Step motor/Servo motor): Applicable to the JXC□/LEC□)	299
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	$\sim$	25A-LEFS (Slider type/AC servo motor: Applicable to the LECY_)	304
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25A- series grease pack <sup>*1</sup> applicable Grease pack part no. Quantity			

# 25A- series grease pack\*1 applicable models

\*1 Air cylinders (Except guide unit). For other models, please contact your local sales representative.

Grease pack part no.	Quantity
GR-D-005	5 g
GR-D-010	10 g
GR-D-100	100 g

Contained in a plastic container.

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	Description	Series	
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		25A-LEJS (High rigidity slider type/AC servo motor: Applicable to the LECY )	306
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Electric Actuators	New	25A-LEY F (High performance/Rod type/Incremental (Step motor): Applicable to the JXC)	306-6
tual		25A-LEY (Rod type/Incremental (Step motor/Servo motor): Applicable to the JXC□/LEC□)	307
Ac	*	25A-LEY (Rod type/AC servo motor: Applicable to the LECS	311
ctric		25A-LEY (Rod type/AC servo motor: Applicable to the LECY )	313
Ше	New	25A-LEY (Rod type/Motorless type)	314-1
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Se		D-Y	315
Auto Switches		D-G59/G5P/K59-900	and onward
		D-F79/F7P/J79-900	
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	Reed Auto Switch	D-A90L/A93L-900	315
	-	D-Z80L-900	and
		D-E73A/E76A/E80A	onward

Special Products (Please contact your local sales representative for more details.)

	Description	Series
Directional Control Valves	3-Port Solenoid Valve/Residual Pressure Release Valve with Detection of Main Valve Position (Safety Standard ISO 13849-1 Certified)	VG342-X87
	Air Cylinder With End Lock	CBM2
	WITT ENd LOOK	МВВ
Air Cylinders	Compact Cylinder with Lock	CLQ
Air Cy	Stopper Cylinder	RSQ
	Heavy Duty Stopper Cylinder	RS2H
Vacuum Equipment	Non-contact Gripper	XT661
t F	Aluminum	XLA (Normally closed)
High Vacuum Equipment	High Vacuum Angle Valve	
High		XLC (Double acting)
13		⊘SMC

D-E73A/E76A/E80A