

Improved and Relaunched

All eight models

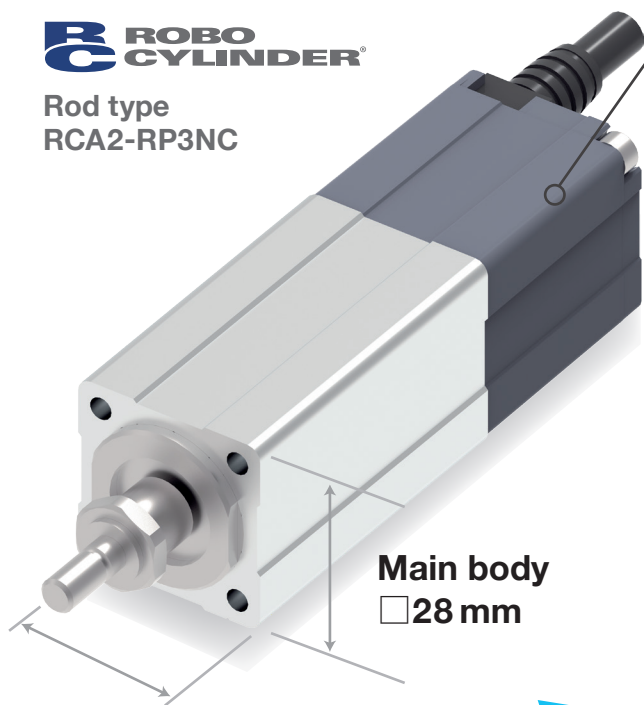
Mini ROBO Cylinder RCA2

Battery-less absolute encoders, standard across many IAI product lines, are now available on the Mini Series. These models successfully combine compactness with functionality.

IAI
Quality and Innovation

ROBO CYLINDER

Rod type
RCA2-RP3NC

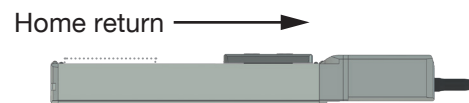


Main body
□ 28 mm

Equipped with battery-less absolute encoders

The current position can be obtained from the positional relationship of the three gears installed in the encoder.

✓ Home return **not necessary**

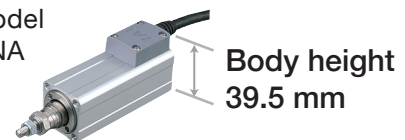


✓ Battery **not necessary**



✓ Dimensions have been reduced!

Previous model
RCA2-RP3NA



Details of products

Rod type

RP3NC/RP4NC

□ 28 mm



RCA2-RP3NC

Double guide rod type

GD3NC/GD4NC

27.6 mm



RCA2-GD3NC

Compact table type

TC3NC/TC4NC

45 mm



RCA2-TC3NC

Wide table type

TW3NC/TW4NC

43 mm



RCA2-TW3NC

Type	Rod RP / Double guide GD / Table TC / Wide table TW Body width 30 mm	Rod RP / Double guide GD / Table TC / Wide table TW Body width 40 mm
Maximum payload (horizontal)	12 kg	15 kg
Maximum speed	300 mm/s	550 mm/s
Stroke	50 mm	50 mm
Positioning repeatability	±0.01 mm	±0.01 mm

Increased Payload Capacity

Driven by a high-output motor, maximum horizontal payload increases to 12 kg - 4x higher than previous models.



Despite its compact body, the actuator ensures stable transfer of heavy workpieces.



Table type
RCA2-TC3NA
10W motor



Table type
RCA2-TC3NC
20W motor



Enhanced Maximum Speed

Combining a high-output motor with an added 10 mm lead boosts maximum speed to 550 mm/s, 1.8x faster than the previous model.



Balances speed and stability to significantly shorten transfer cycle times.



Rod type
RCA2-RP4NA
10W motor



Rod type
RCA2-RP4NC
20W motor Lead 10mm



5× Higher Acceleration Performance

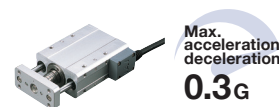
With higher motor output and added 10 mm lead, maximum acceleration/deceleration reaches 1.5 G - a 5x improvement over previous models.



Rapid acceleration/deceleration minimize movement delays, significantly reducing overall cycle times.



Double guide rod type
RCA2-GD4NA
10W motor



Double guide rod type
RCA2-GD4NC
20W motor Lead 10mm



Improved Positioning Accuracy

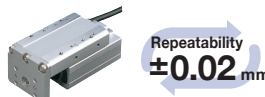
Upgraded encoder resolution delivers twice the positioning repeatability of the previous model (± 0.01 mm vs. ± 0.02 mm).



Ideal for transfer applications such as inspection and assembling that need high accuracy!



Double guided type
RCA2-TWA3NA



Double guided type
RCA2-TWA3NC



Contact IAI for the detailed specifications. The Product catalog is coming soon.

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The information contained in this product brochure may change without prior notice due to product improvements.

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