

BONSYSTEMS

BCSA SERIES



Bonsystems Co., Ltd.

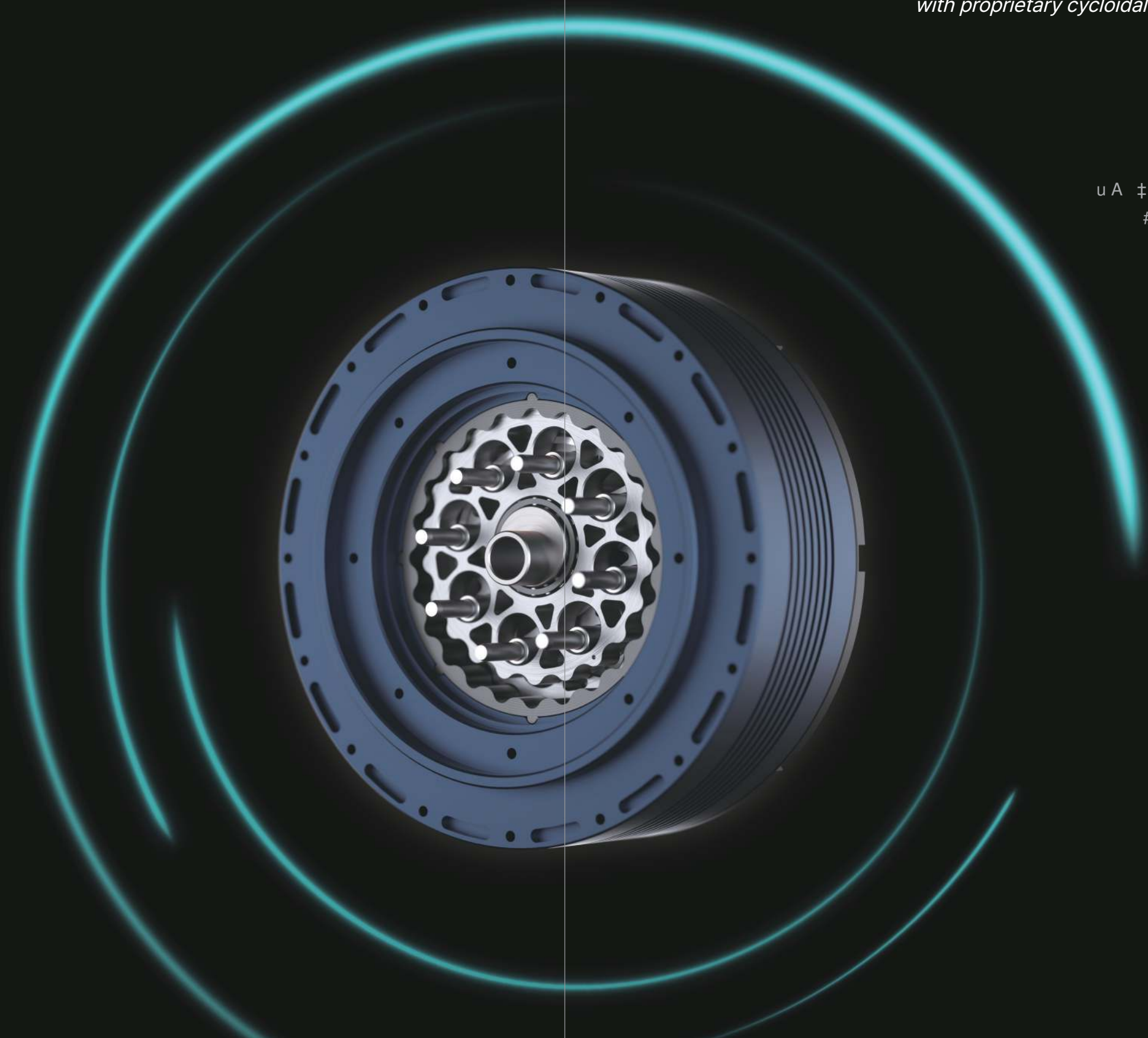
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Slim, Strong.
The Optimal Solution for Your Robot.

*A slim, high-torque actuator engineered
with proprietary cycloidal tooth profile technology.*

...

#) ± ± 04
#) P i ± () P i ± 07
#) 1 j ± A^a u : j^a ± 08
u A ±^a j ± i v ± j P A j (±
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Bonsystems Cycloid Smart Actuator

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Innovating Once More! Modular Design

The BCSA (Bonsystems cycloidal Smart Actuator) is configured with the reducer and motor as independent modules, maximizing customization and ease of maintenance.

This structure is designed to eliminate the need for purchasing or manufacturing an entirely new set of components whenever the reduction ratio or motor specifications change, enabling effortless application of the desired output and torque combinations.

Furthermore, the modular housing design enables partial maintenance when either the motor or reducer requires replacement or repair. This not only reduces costs but also

BCSA Series

3D Exploded View

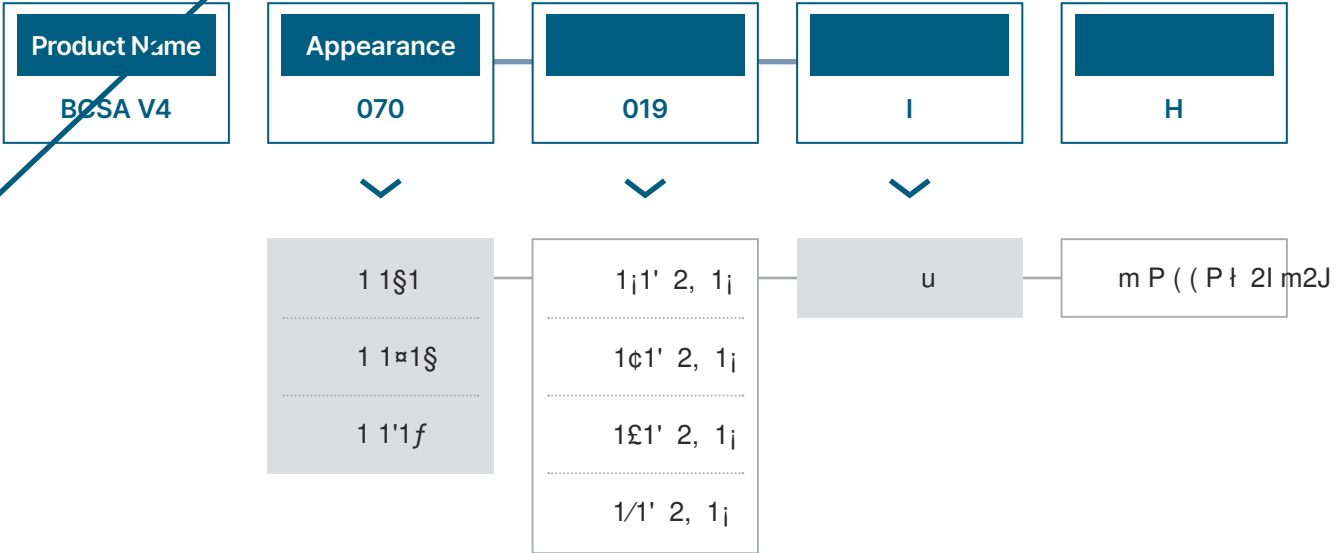
BCSA V4 RI



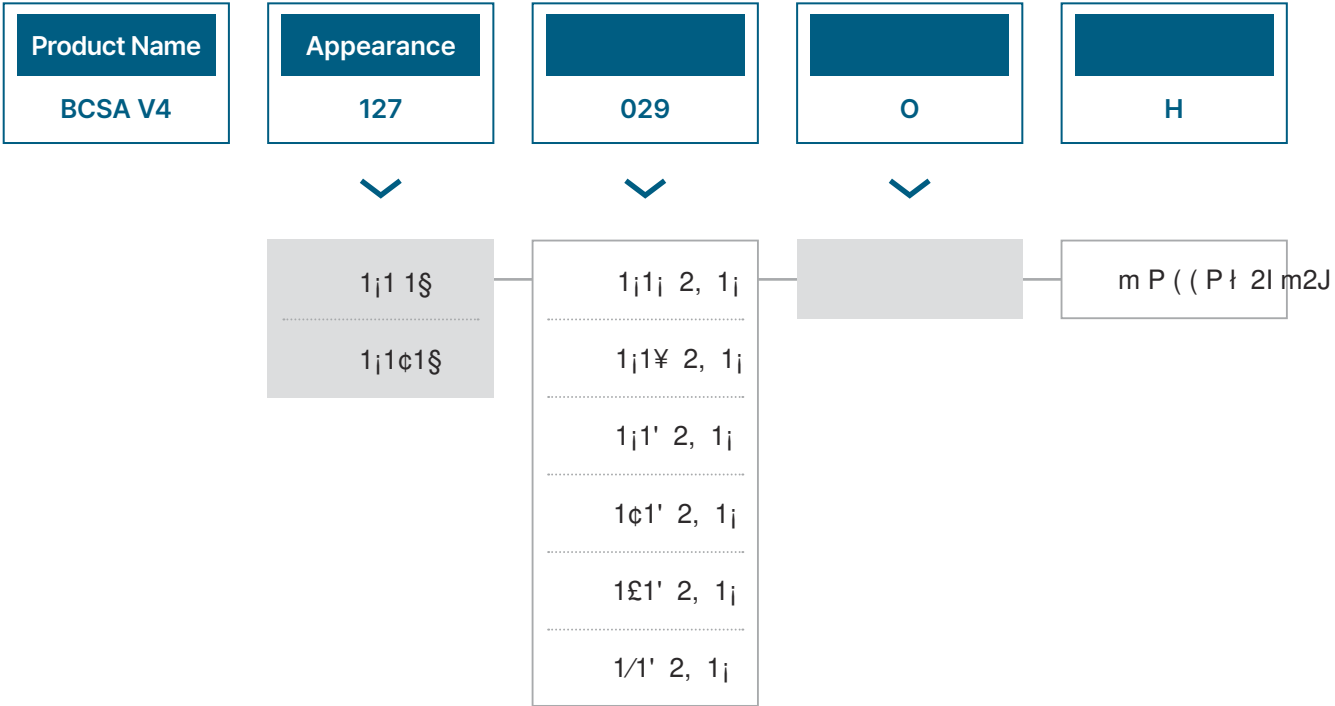
BCSA V4 RO



BCSA Series
RI Model Code



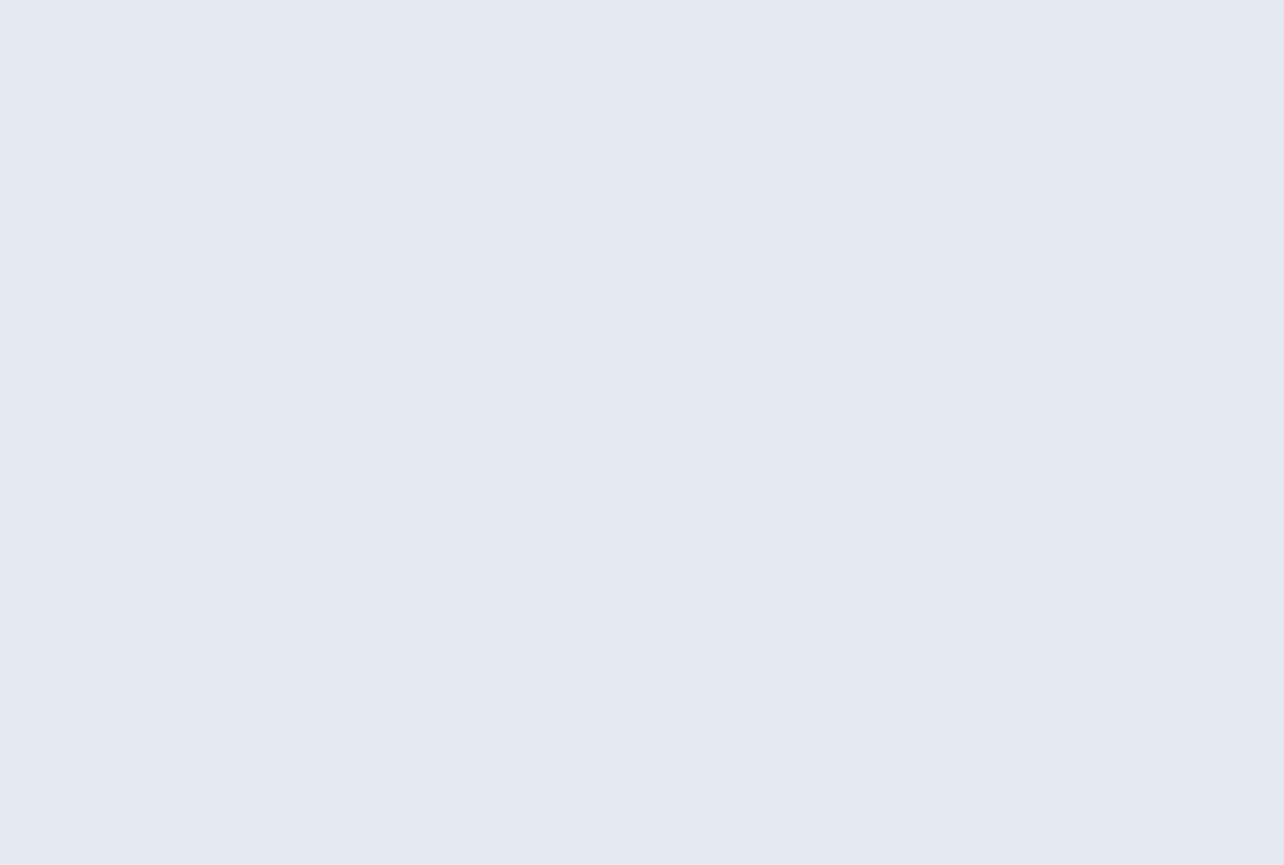
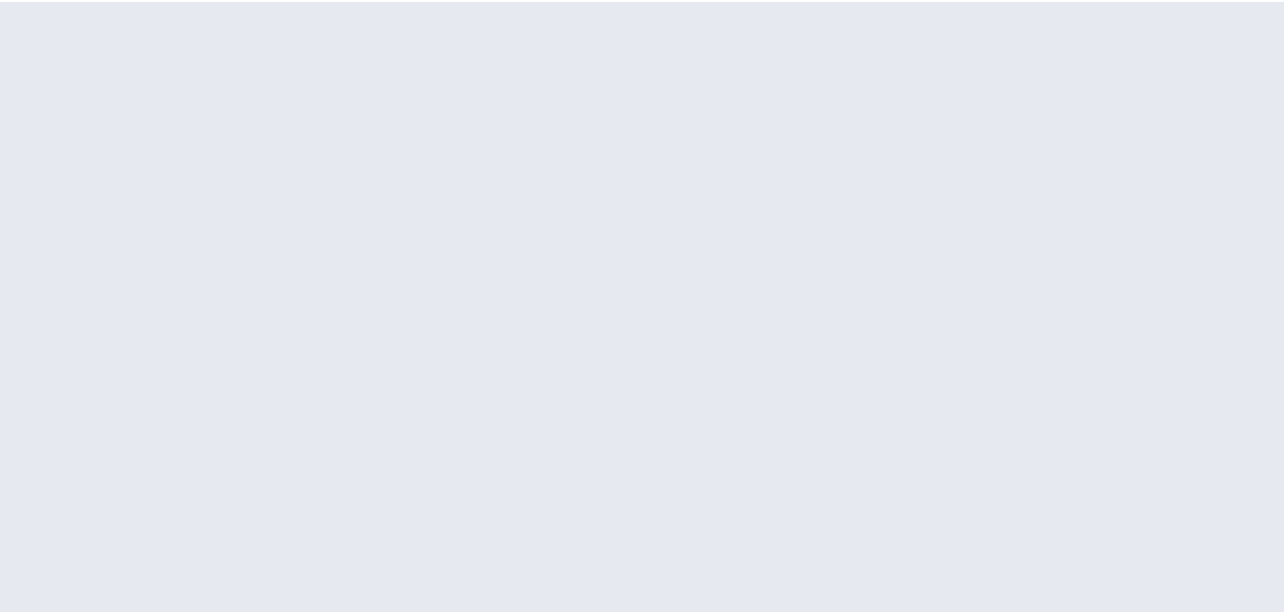
BCSA Series
RO Model Code





BCSA Series

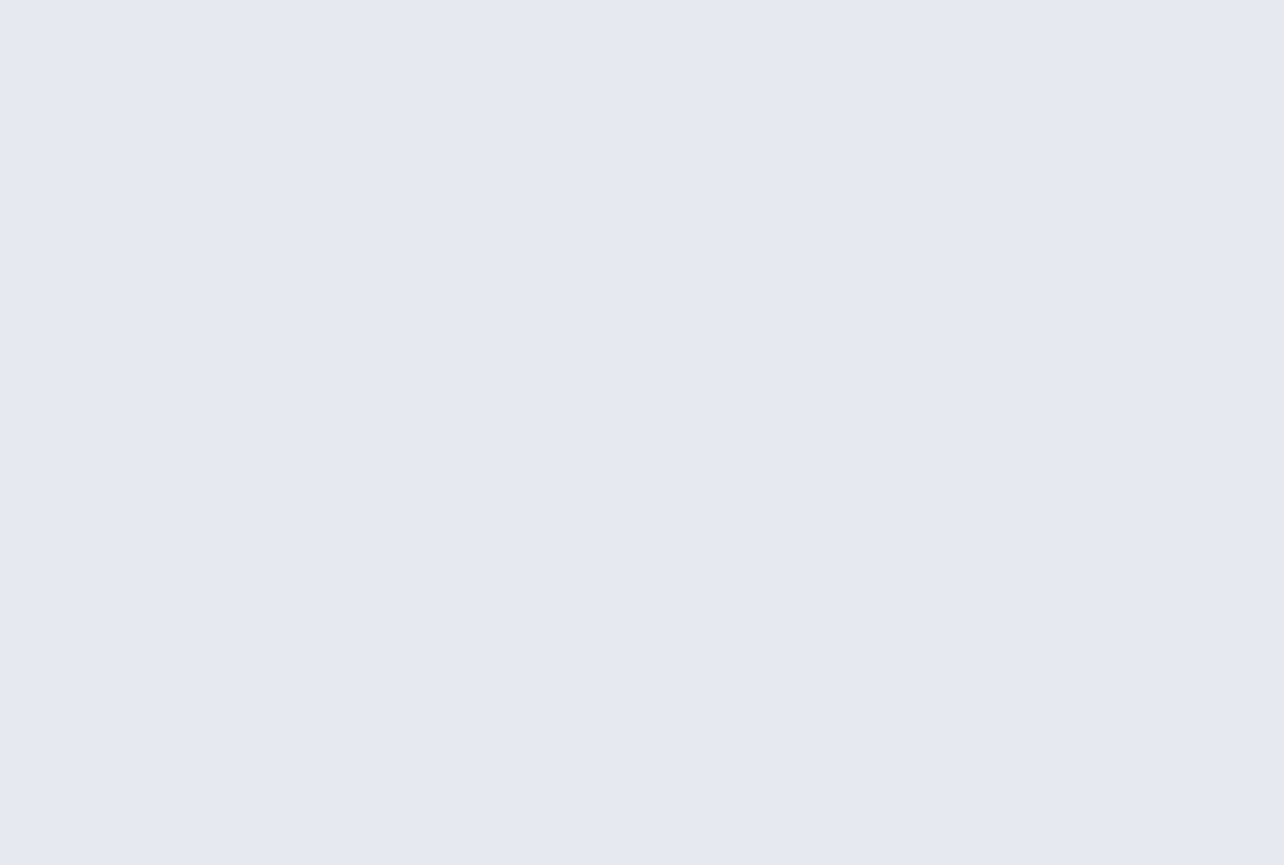
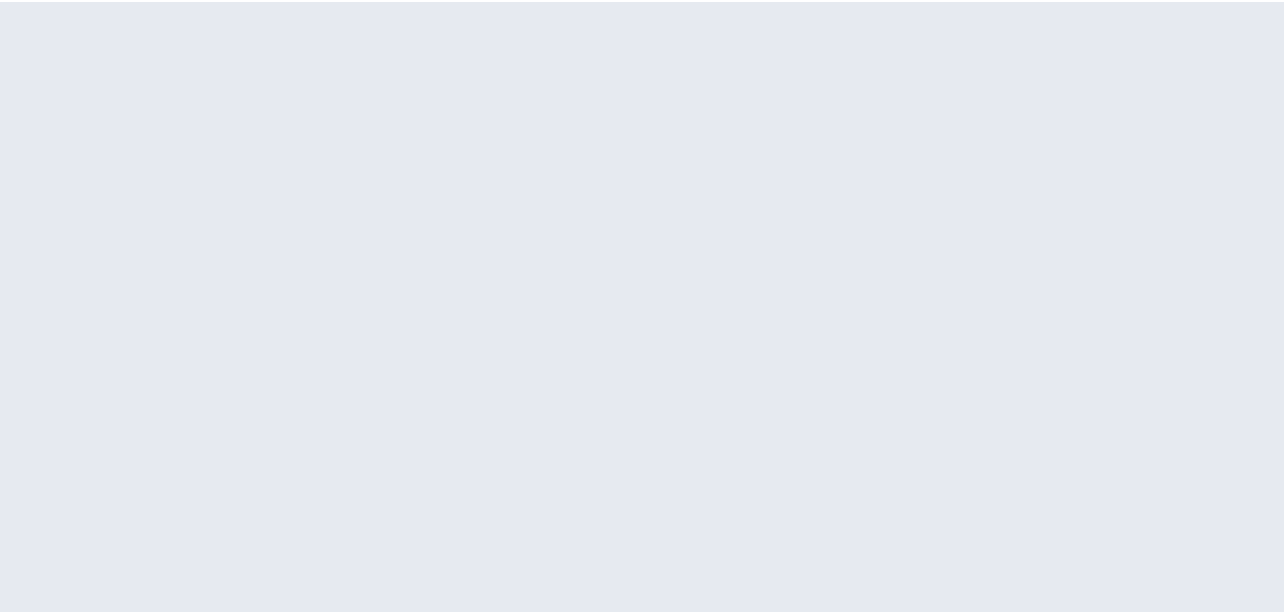
BCSA 070





BCSA Series

BCSA 087

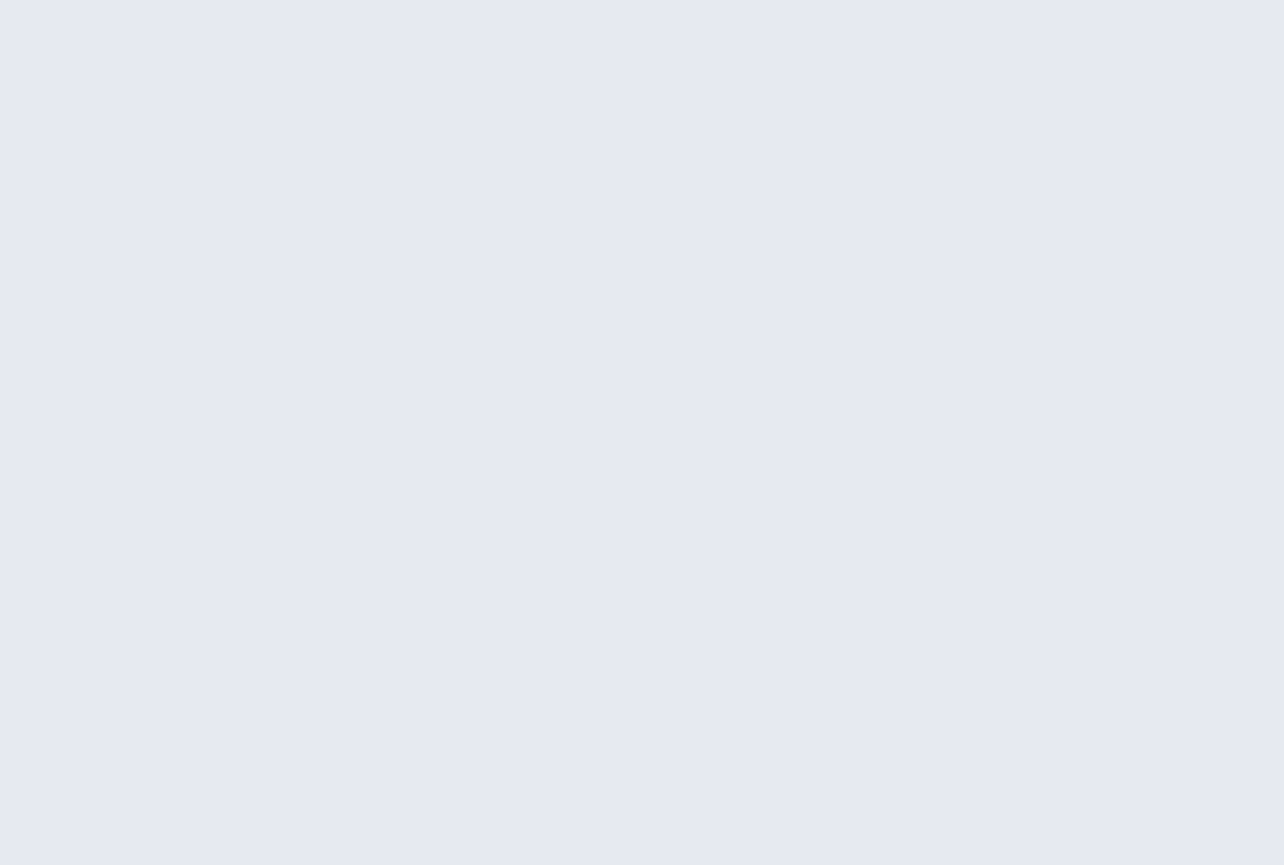
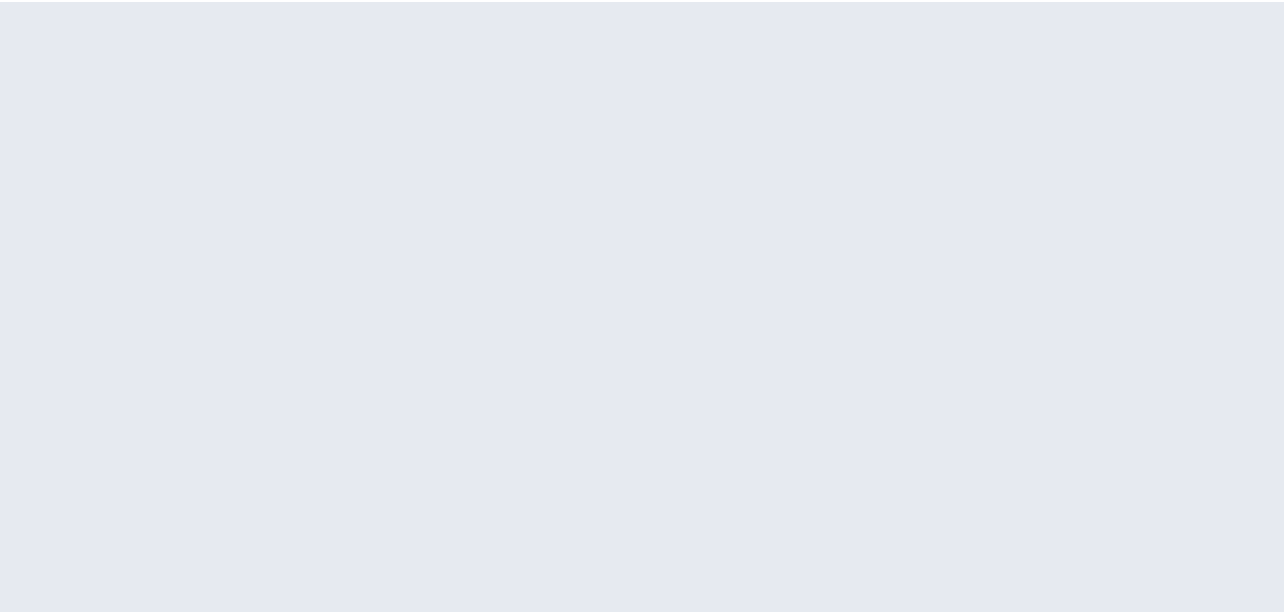


Product Name				



BCSA Series

BCSA 096



Product Name				



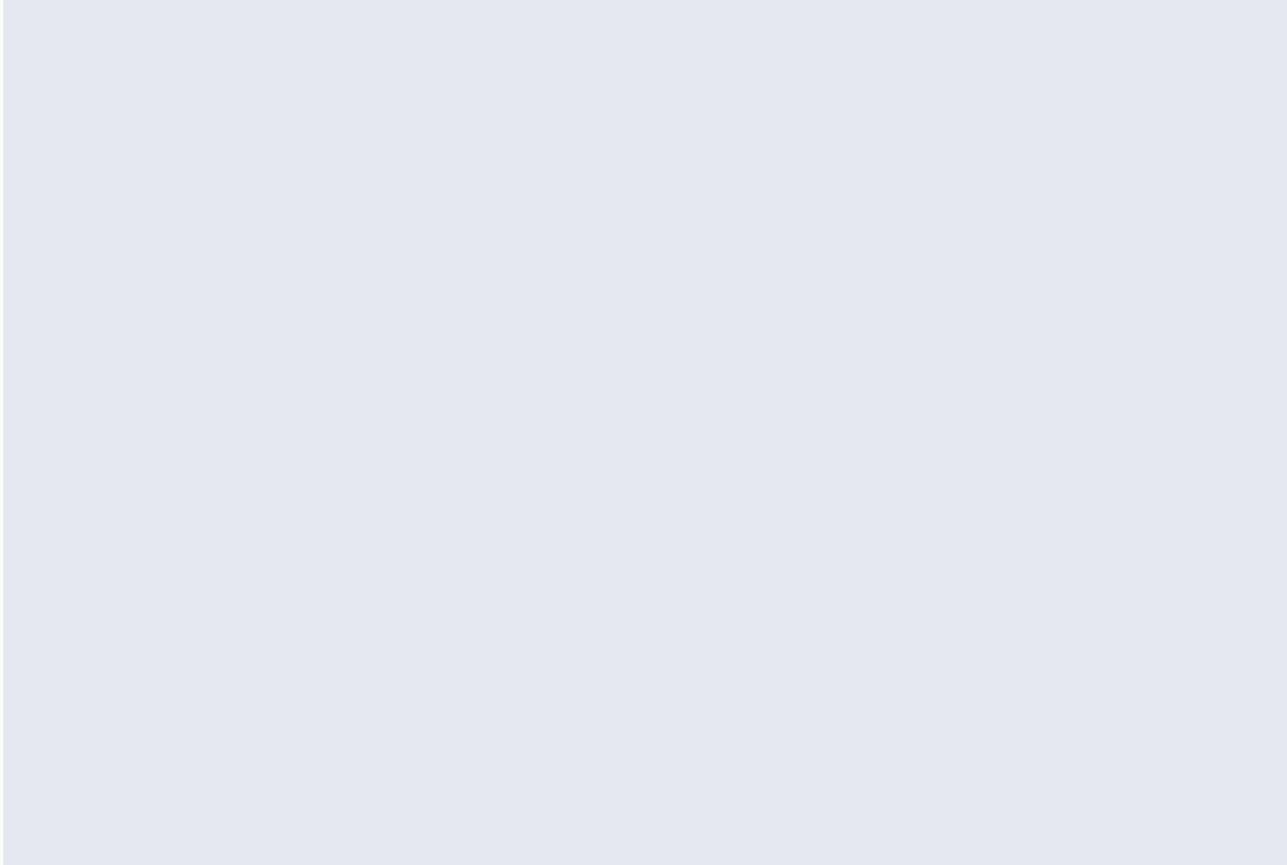
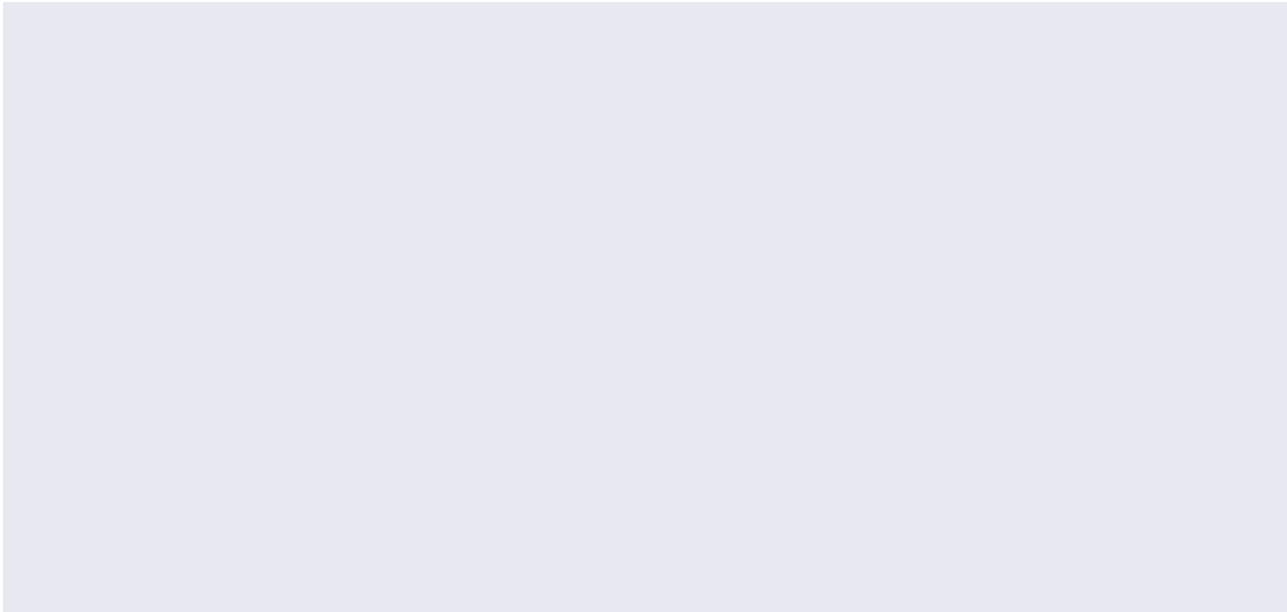
The one definitive answer
to expanding what robots can do.

...

A slim and powerful **robot actuator** that creates truly free-moving robots.

BCSA Series

BCSA 107

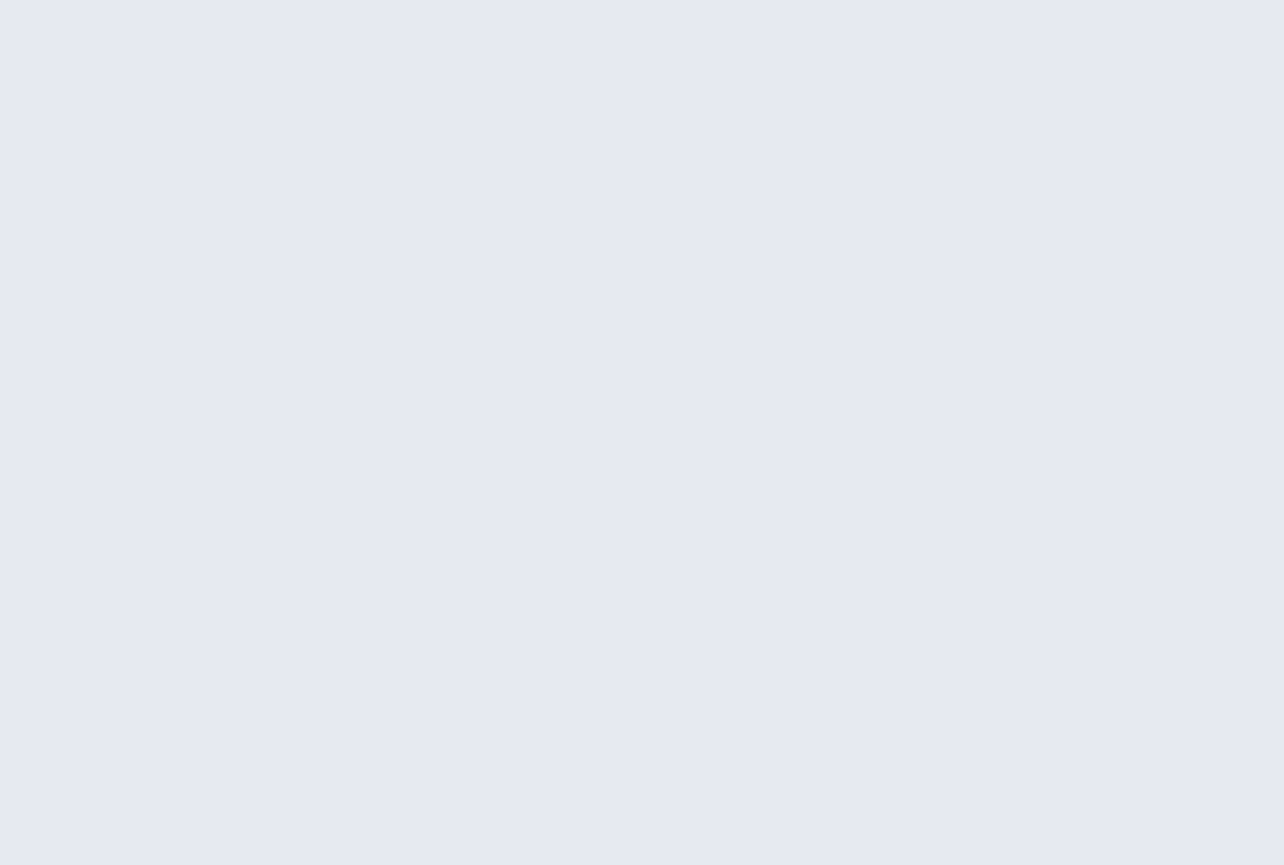
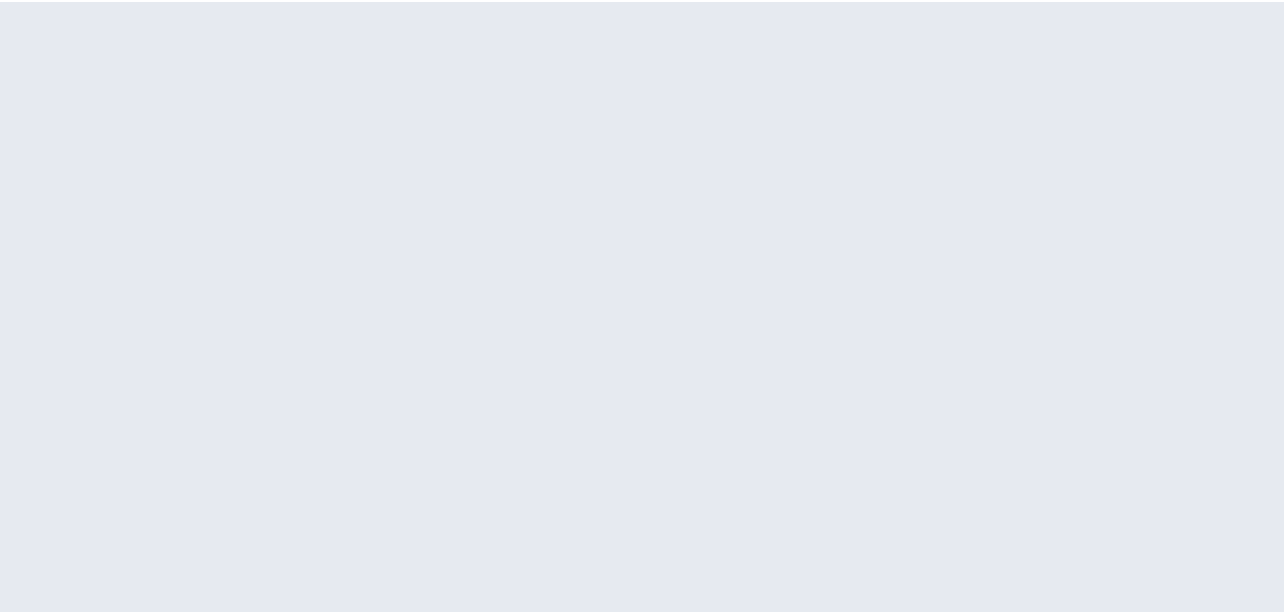


Product Name	BCSA 107-011-O	BCSA 107-015-O	BCSA 107-019-O	BCSA 107-029-O	BCSA 107-039-O	BCSA 107-049-O
Reduction Ratio	11	15	19	29		



BCSA Series

BCSA 127



BONSYSTE™





| Product Introduction

2 | Storage

Store the product indoors in a dry, well-ventilated area with minimal temperature fluctuations.

For long-term storage exceeding three months, rotate the shaft for at least five minutes once per month to prevent bearing corrosion.

Extra caution is required if the product is stored in locations exposed to moisture, oil contamination, explosive gases, or vibration.

The product is shipped with an anti-corrosion coating applied. For extended storage, include a desiccant and seal the product to prevent air ingress.

When disposing of the product, disassemble it properly. Lubricants must be treated as designated waste, and remaining components should be disposed of according to their material classification, such as rubber or scrap metal.

3 | Inspection

1 After receiving the product, inspection and trial operation must be carried out according to the procedures below.

- Basic Inspection Procedure

- Initial Trial Operation Procedure