

BONSYSTEMS MICRO REDUCER

BSR 018



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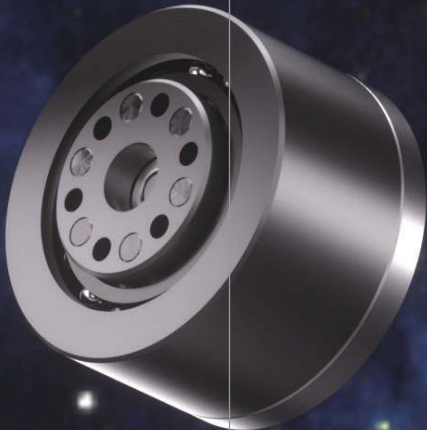


**Pinless cycloidal reduction technology
packed into just 18 mm**

An ultra-compact reduction solution for robotic hands

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Bonsystems Micro Reducer

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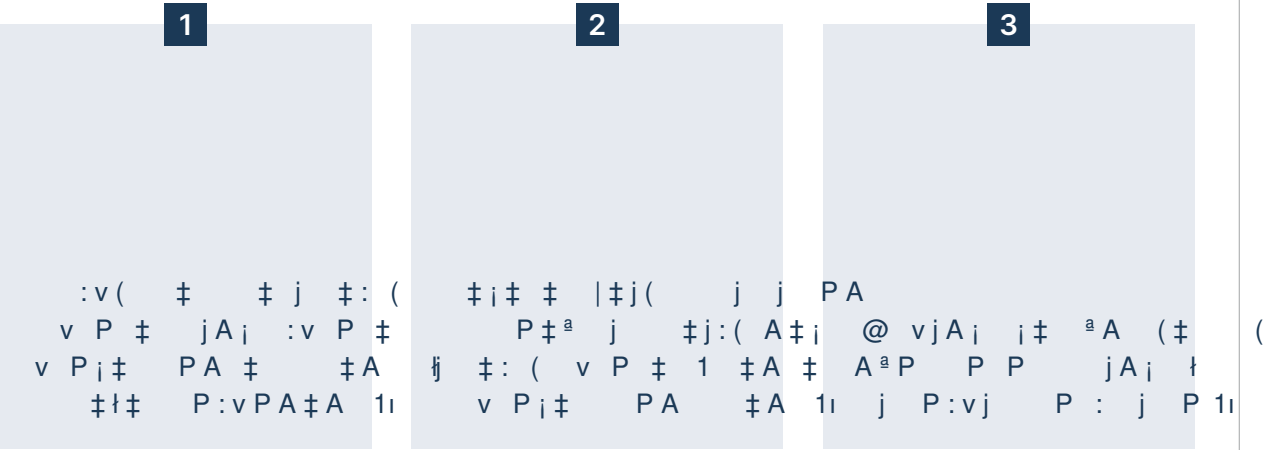


BSR 018 Product Introduction

BSR 018 applies pinless cycloidal technology to achieve a compact structure and stable drive performance.

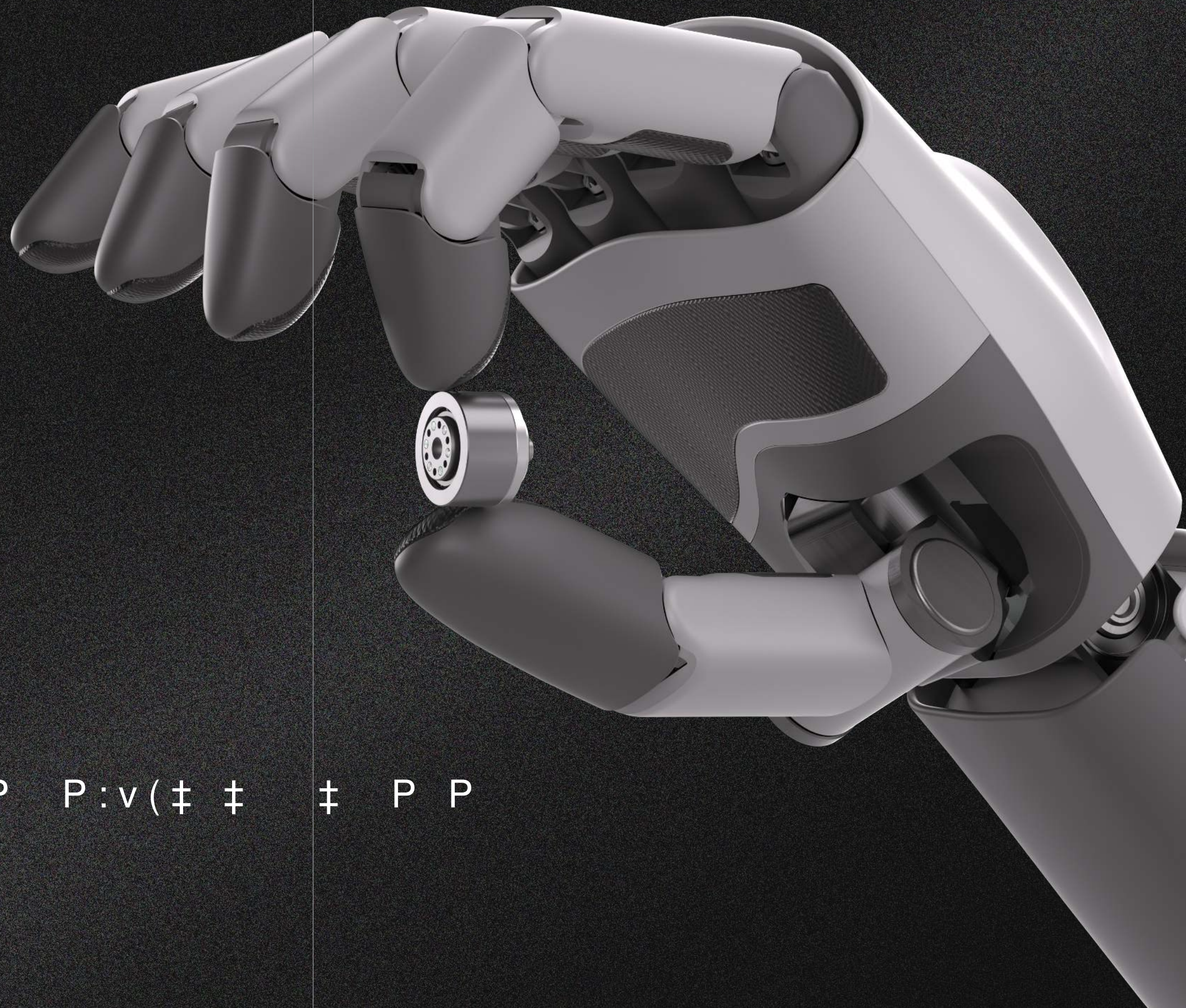
What is pinless cycloidal technology?

Pinless cycloidal technology is a reduction technology that maintains the core principle of a cycloidal reducer while simplifying the structure by reducing the number of pin components.



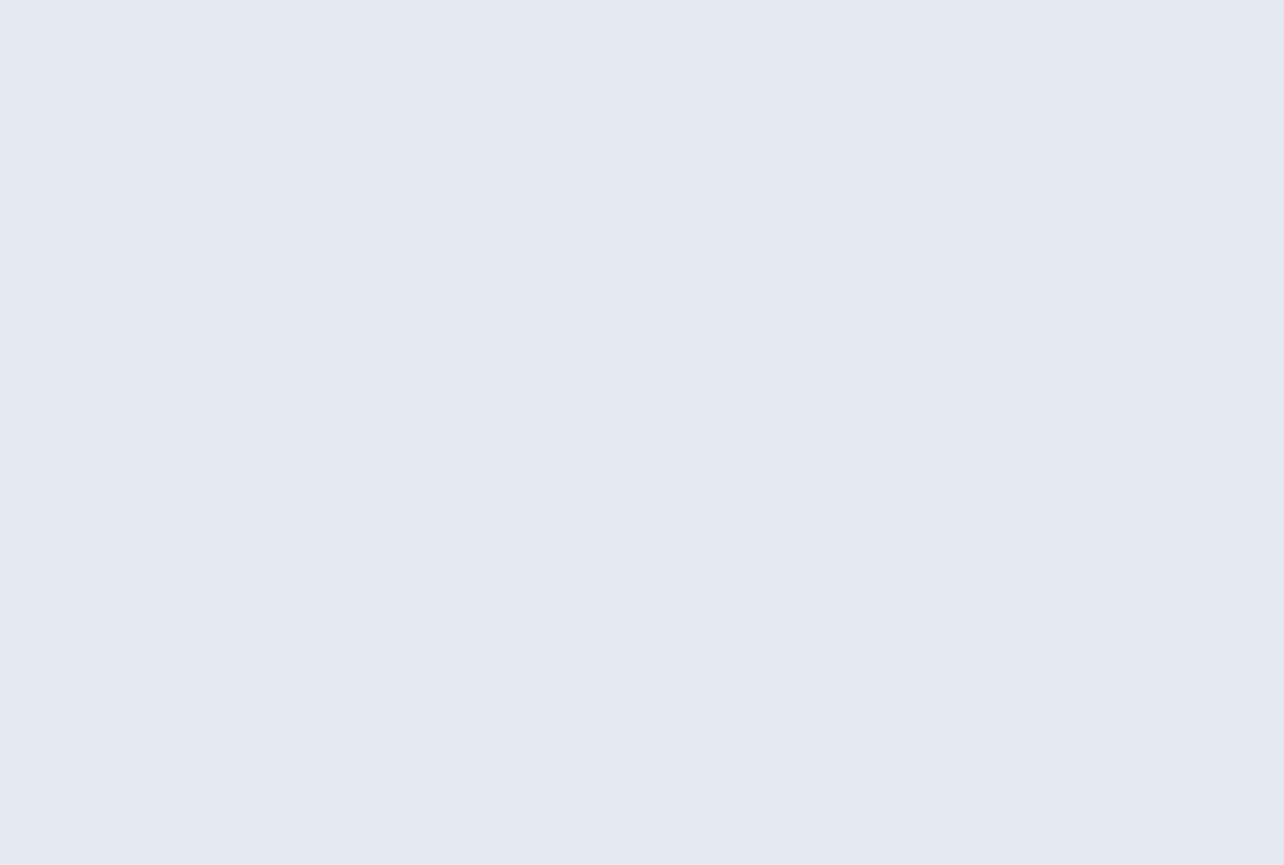
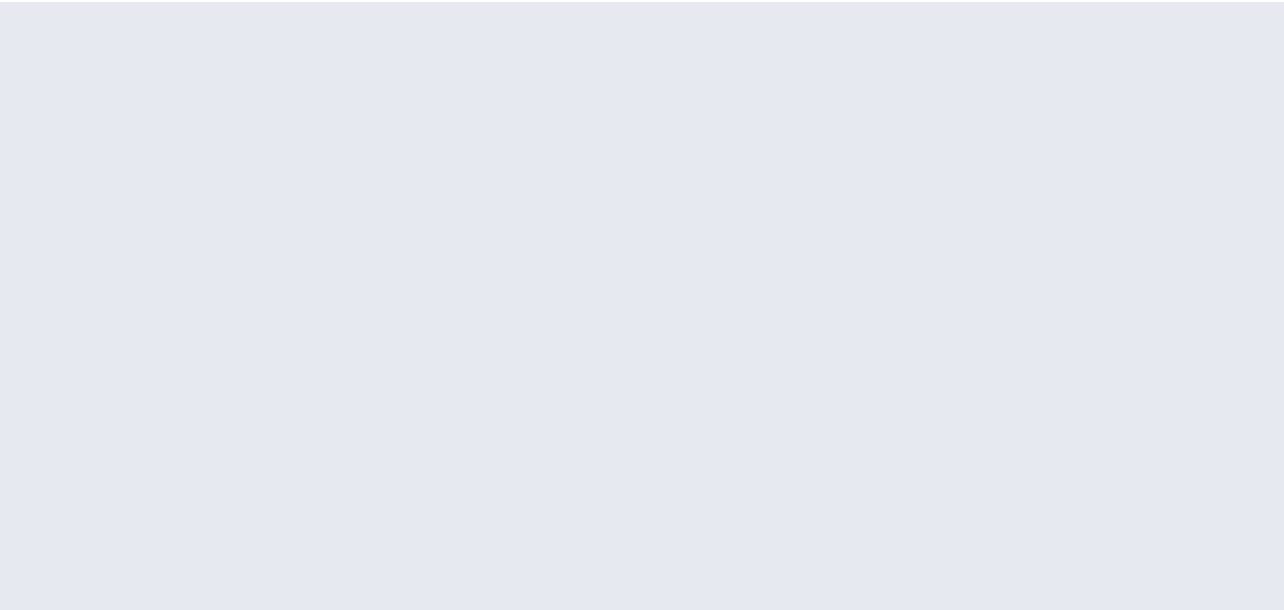
Capturing robots in ø18 mm

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Micro Reducer
BSR 018



BSR 018-025	
Reduction Ratio	25
Outer Dia. (mm)	18
Thickness (mm)	16.2
Gearbox Allowable Rated Torque (Nm)	0.80
Peak Torque at Acceleration (Efficiency applied) (Nm)	1.50
Instantaneous Max Torque (Efficiency applied) (Nm)	3
Allowable Avg. Input Speed (rpm)	3,000

**A simpler structure,
more stable operation**

**A new standard for
robot hand components**

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Motor selection must comply with the ratings, specifications, and performance data provided in the datasheet and catalog.

When mounting components such as shafts or couplings onto the input shaft, ensure they are securely and properly installed on the reducer.

When connecting components such as shafts to the output shaft, do not apply excessive impact. Use lubricant to ensure smooth assembly. Excessive impact may cause damage or failure of the product.

During the initial test operation after receiving the product, do not apply a sudden load from the beginning. Start at low speed and gradually increase the load while checking for abnormal vibration, vibration level, assembly condition, shaft alignment (verticality and eccentricity), etc.

Bolts and fasteners used during installation and assembly must strictly conform to the specifications shown in the product drawings and catalog.

During installation, misalignment such as shaft offset or assembly step difference may cause vibration, which can result in damage to output-side components. Always confirm the rotation direction of the reducer and ensure proper alignment without deviation in verticality and horizontality.