

# BHG Series Compact Cross Roller Parallel Hand

## Cross Roller Parallel Gripper with Rubber Cover

### Key Features

- **Protective rubber cover for use in dusty and harsh environments**

Rubber cover prevents substances and particulates such as mists and dusts from penetrating into the interior of the unit

- **High accuracy and smooth operation with cross roller guide**

Cross roller bearing retention structure used in the sliding material provides high accuracy and smooth motion

- **Compact body and high rigidity**

Telescopic slides and bearing retainers to provide high moments to size ratio

- **Clean room compliant types available**

Clean Room Class 10 and Class 1000 types available



BHG-05AS

Hand  
(2-law)

### How To Order

Standard ----- **BHG-01AS**

Option ----- **BHG-01AS - ET3S2 - GH** ----- BHG-01AS-GH (BHG-01AS with oil-proof rubber cover) with 2 of ET3 non-contact reed switches

Size	
Symbol	
01AS	
03AS	
04AS	
05AS	
06AS	

Sensor, Quantity			
Symbol	Name	Symbol	Name
ET3	Non-Contact 3-Lead	E24L	Contact 2-Lead
ET3L	Non-Contact 3-Lead	E25	Contact 2-Lead
ET2	Non-Contact 2-Lead	E25L	Contact 2-Lead
ET2L	Non-Contact 2-Lead	S1	1 Sensor
E24	Contact 2-Lead	S2	2 Sensors

Option			
Symbol	Name	Symbol	Name
NO	Normally Open	GC2	Clean Room Type
NC	Normally Closed	PF	Air Port Position Change
GH	Oil (Fluororubber) Cover		
GT	Heat (Silicon Rubber) Cover		
GC1	Clean Room Type		

\* 06AS only

For sensor detail ▶ 277P

\* Except 06AS

For option detail ▶ 36P

### Specification

Model	BHG-01AS	BHG-03AS	BHG-04AS	BHG-05AS	BHG-06AS
	For Layout Drawing ▶ 57P	For Layout Drawing ▶ 57P	For Layout Drawing ▶ 58P	For Layout Drawing ▶ 58P	For Layout Drawing ▶ 59P
Working Pressure	Pneumatic: 0.1 to 0.7 MPa (0.3 to 0.7MPa for NO & NC types)				
Lubrication	Not Required or Turbine Oil Class 1 (ISOVG32)				
Ambient Temperature (°C)	5 to 60				
Total Jaw Stroke (mm)	5	9	11	15	20
Cylinder Diameter (mm)	dia.12	dia.16	dia.20	dia.25	dia.32
Rod Diameter (mm)	dia.6	dia.8	dia.10	dia.12	dia.16
Internal Volume [Reciprocation] (cm <sup>3</sup> /time)	0.32	1.58	2.89	6.32	14.07
Repeatability (mm)	±0.01				
Weight (g)	118	165	283	455	1170