

BHA Series Compact Cross Roller Parallel Hand

Smooth Motion and Powerful Grip Force

Key Features

■ High accuracy and smooth operation with cross roller guide

Cross roller guide used for sliding material provides high accuracy and smooth motion without backlash. The gripper can be operated at 0.1MPa

■ Compact body and powerful grip force

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

■ Switch slots available for sensing jaw position (open or closed)

2 reed switches can be mounted on all the gripper sizes



BHA-03AS

Hand
(2-law)

How To Order

Standard ----- **BHA-01AS**

Option ----- **BHA - 01AS - ET3S2 - PF** ----- BHA-01AS with air port location changed and 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		
NC	Normally Closed		
PF	Air Port Position Change		

* 06AS only

For sensor detail ▶ 277P

For option detail ▶ 36P

Specification

Model	BHA-01AS	BHA-03AS	BHA-04AS	BHA-05AS	BHA-06AS
	For Layout Drawing ▶ 51P	For Layout Drawing ▶ 51P	For Layout Drawing ▶ 52P	For Layout Drawing ▶ 52P	For Layout Drawing ▶ 53P
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 ³ /time)	0.32	1.58	2.89	6.32	14.07
Repeatability (mm)	±0.01				
Weight (g)	100	145	253	420	1100