

Oil-Proof Hand BHGJ Series

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 for 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



BHGJ-05AS

*Oil-Proof Sensors can be mounted

How To Order

Standard ----- **BHGJ-01AS**

Option ----- **BHGJ-01AS - E40LS2 - Z** ----- BHGJ-01AS with 2 of E40L non-contact reed switches and special processing

Clean Room & Special Type

Size	
Symbol	
01AS	
03AS	
04AS	
05AS	

Sensor, Quantity			
Symbol		Name	
E40	Non-Contact 3-Lead	E45	Non-Contact 2-Lead
E40L	Non-Contact 3-Lead	E45L	Non-Contact 2-Lead
E41	Non-Contact 2-Lead	S1	1 Sensor
E41L	Non-Contact 2-Lead	S2	2 Sensors

Option			
Symbol		Name	
Z	Special Type (Custom)		

For sensor detail ▶ 277P

For option detail ▶ 36P

Specification

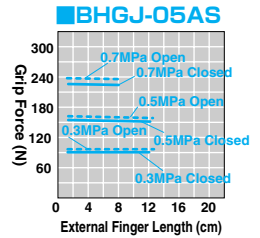
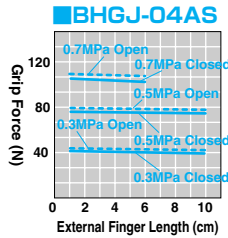
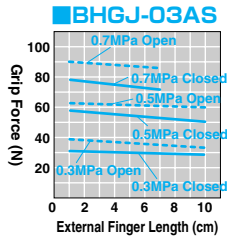
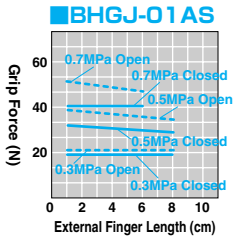
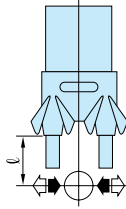
Model	BHGJ-01AS For Layout Drawing ▶ 333P	BHGJ-03AS For Layout Drawing ▶ 333P	BHGJ-04AS For Layout Drawing ▶ 333P	BHGJ-05AS For Layout Drawing ▶ 333P
Working Pressure	Pneumatic: 0.1 to 0.7MPa			
Lubrication	Not Required or Turbine Oil Class 1 (ISOVG32)			
Ambient Temperature (°C)	5 to 60			
Total Jaw Stroke (mm)	5	9	11	15
Cylinder Diameter (mm)	dia.12	dia.16	dia.20	dia.25
Rod Diameter (mm)	dia.6	dia.8	dia.10	dia.12
Internal Volume [Reciprocation] (cm ³ /time)	0.32	1.58	2.89	6.32
Repeatability (mm)	±0.01			
Weight (kg)	0.13	0.18	0.3	0.48

Performance Data

■ Grip Force

The graph shows grip force in opening and closing with effective external finger lengths l from gripper cover surface under different air pressure (MPa)

Open (⇐) ————
 Closed (⇒) —————

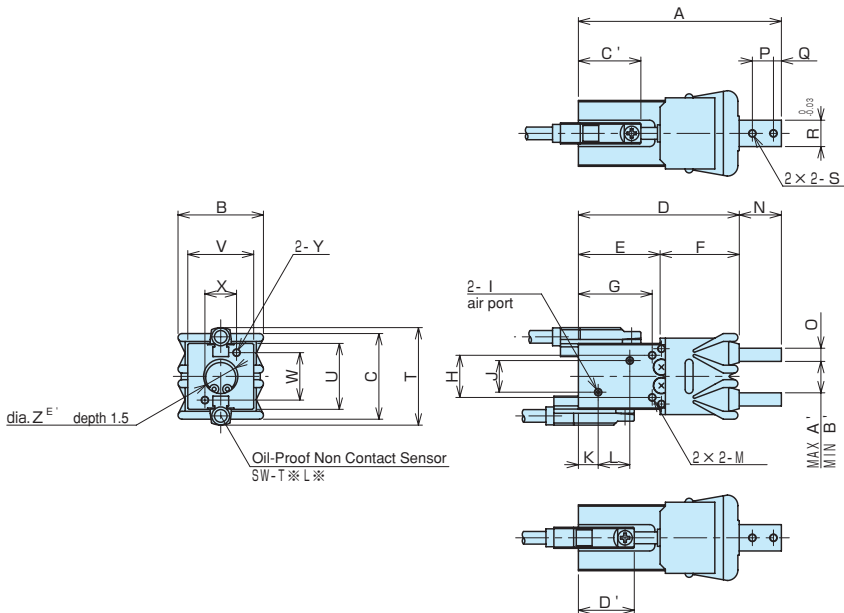


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Layout Drawing

■ **BHGJ-01AS to 05AS** (Optimal Grip Force 15N to 150N)


BHGJ-□□AS Standard



Model	A'	B'	C'	D'	E'
BHGJ-01AS	15	10	23.7	21.2	$\begin{smallmatrix} +0.043 \\ 0 \end{smallmatrix}$
BHGJ-03AS	18	9	26.1	21.6	$\begin{smallmatrix} +0.043 \\ 0 \end{smallmatrix}$
BHGJ-04AS	25	14	28.6	23.1	$\begin{smallmatrix} +0.052 \\ 0 \end{smallmatrix}$
BHGJ-05AS	30	15	33.3	25.8	$\begin{smallmatrix} +0.052 \\ 0 \end{smallmatrix}$

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
BHGJ-01AS	77	33	33	61	31	30	28	16	M3×0.5	12	7.5	12	M3×0.5 depth 7	16	5	8	3	10	M3×0.5	37	25	25	18	12	M3×0.5 depth 7	13
BHGJ-03AS	87.5	34	36	68.5	37.5	31	32.5	24	M5×0.8	16	7.5	14	M4×0.7 depth 7	19	6	10	4	10	M4×0.7	41	30	26	22	15	M4×0.7 depth 8	17
BHGJ-04AS	94	38	51	75	39	36	33	30	M5×0.8	19	7.5	19.5	M5×0.8 depth 8	19	8	10	4	10	M4×0.7	51	41	30	32	18	M5×0.8 depth 8	21
BHGJ-05AS	111	45	60	89	48	41	39	36	M6×0.8	23	9	23.5	M6×1.0 depth 10	22	10	10	5	10	M5×0.8	60	50	35	40	22	M6×1.0 depth 10	26

BHGJ-01AS/03AS/04AS/05AS

 For CAD data, please go to **▶518P**