

# HK Series Cross Roller Parallel Hand

## Smooth Motion via Bearings

### Key Features

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

Cross roller bearing 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

■ **Protective rubber cover (option) for use in dusty and harsh environments**

Rubber cover for harsh environments to repels chips and other particulates such as dust and mist from internal drive mechanism

■ **Oil-resistant sensors (option)**

Oil-resistant sensors available (option) for HK-50AS1, 63AS1, and 80AS



HK-40MS

Hand  
(2-law)

### How To Order

Standard ----- **HK-32MS**

Option ----- **HK - 32MS - ET3 S2 - G** ----- HK-32MS with Rubber cover and 2 of ET3 non-contact reed switches

Size	
Symbol	Name
32MS	
40MS	
50AS1 <sup>*5</sup>	
63AS1 <sup>*5</sup>	
80AS <sup>*3</sup>	

Sensor			
Symbol	Name	Symbol	Name
ET3 <sup>*1</sup>	Non-Contact 3-Lead	E25 <sup>*4</sup>	Contact 2-Lead
ET3L <sup>*4</sup>	Non-Contact 3-Lead	E25L <sup>*4</sup>	Contact 2-Lead
ET2 <sup>*1</sup>	Non-Contact 2-Lead	E40 <sup>*4</sup>	Non-Contact 3-Lead
ET2L <sup>*4</sup>	Non-Contact 2-Lead	E40L <sup>*4</sup>	Non-Contact 3-Lead
E24 <sup>*4</sup>	Contact 2-Lead	E41 <sup>*4</sup>	Non-Contact 2-Lead
E24L <sup>*4</sup>	Contact 2-Lead	E41L <sup>*4</sup>	Non-Contact 2-Lead

Quantity	
Symbol	Name
S1	1 Sensor
S2	2 Sensors

Option	
Symbol	Name
NO <sup>*2</sup>	Normally Open
NC <sup>*2</sup>	Normally Closed
G	Rubber Cover
GH	Oil (Fluororubber) Cover
GT	Heat (Silicon Rubber) Cover

For sensor detail ▶ 277P

For option detail ▶ 36P

<sup>\*1</sup> Bracket is required to mount this switch (except HK-50AS1, 63AS1, and 80AS)  
<sup>\*2</sup> Except HK-80AS  
<sup>\*3</sup> There is no 80AS1. HK-80AS is correct model number  
<sup>\*4</sup> Available only for HK-50AS1, 63AS1, 80AS  
<sup>\*5</sup> There is no 50AS and 63AS. HK-50AS1 and 63AS1 are correct model number

### Specification

Model	HK-32MS <small>For Layout Drawing ▶ 120P</small>	HK-40MS <small>For Layout Drawing ▶ 121P</small>	HK-50AS1 <small>For Layout Drawing ▶ 122P</small>	HK-63AS1 <small>For Layout Drawing ▶ 123P</small>	HK-80AS <small>For Layout Drawing ▶ 124P</small>
Working Pressure	Pneumatic: 0.1 to 0.7 MPa(0.3 to 0.7MPa for NO & NC types)				Pneumatic: 0.3 to 0.7MPa
Lubrication	Not Required or Turbine Oil Class 1 (ISOVG32)				
Ambient Temperature (°C)	5 to 60				
Total Jaw Stroke (mm)	24	30	36	40	60
Cylinder Diameter (mm)	dia.32	dia.40	dia.50	dia.63	dia.80
Rod Diameter (mm)	dia.16	dia.20	dia.28	dia.32	dia.16
Internal Volume [Reciprocation] (cm <sup>3</sup> /time)	25.3	49.5	89.4	162.9	354.5
Repeatability (mm)	±0.01				
Weight (kg)	1.36	1.95	4.2	5.4	10.6