SERIAL SEOT

HK-40MS

HK Series Cross Roller Parallel Hand

Smooth Motion via Bearings

Key Features

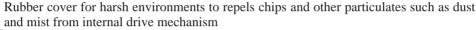
■High accuracy and smooth operation with cross roller guide

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

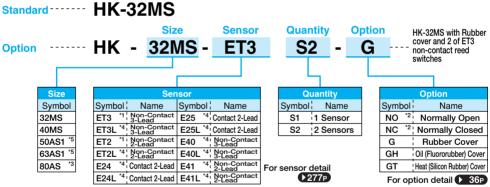
■Protective rubber cover (option) for use in dusty and harsh environments



Oil-resistant sensors (option)

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

How To Order



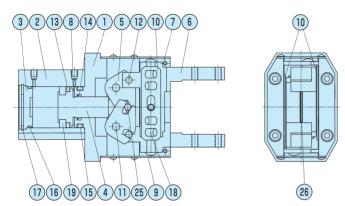
- *1 Bracket is required to mount this switch (except HK-50AS1, 63AS1, and 80AS)
- *2 Except HK-80AS
- *3 There is no 80AS1. HK-80AS is correct model number
- *4 Available only for HK-50AS1, 63AS1, 80AS
- *5 There is no 50AS and 63AS. HK-50AS1 and 63AS1 are correct model number

Specification

Model	HK-32MS For Layout Drawing 120P	HK-40MS For Layout Drawing ▶121P	HK-50AS1 For Layout Drawing ▶122₽	HK-63AS1 For Layout Drawing ▶123₽	HK-80AS For Layout Drawing ▶124P	
Working Pressure	Pneumatic:	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] (cm3/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	

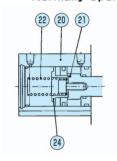
Internal Structure / Parts & Seals

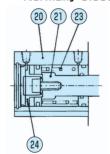
■Standard



■NO(Single Acting - Normally Open)

■NC(Single Acting - Normally Closed)





■Parts List

No.	Name	Material	No.	Name	Material	No.	Name	Material
1	Body	Aluminum	10	Retainer A	Stainless Steel	19	Magnet	
2	Cylinder	Aluminum	11	Fulcrum Shaft	Carbon Steel	20	NO & NC Cylinder	Aluminum
3	Cylinder Cover *	Resin	12	Operating Shaft B	Carbon Steel	21	NO & NC Piston A	Stainless Steel
4	Piston	Aluminum & Stainless Steel	13	Piston Seal		22	NO Spring	Stainless Steel Wire
5	Arm	Carbon Steel	14	Rod Seal		23	NC Spring	Stainless Steel Wire
6	Master(Base) Jaw	Carbon Steel	15	Cylinder Seal A		24	NO & NC Piston B	Aluminum
7	Bearing Guide	Carbon Steel	16	Cylinder Seal B		25	Operating Shaft A	Carbon Steel
8	Cushion	Resin	17	Snap Ring	Stainless Steel	-	Retainer B	Stainless Steel
9	Side Cover	Stainless Steel	18	Roller	High-Carbon Chromium			

*Aluminum for 50AS1 and 63AS1

■Seals List

No.	HK-32MS	HK-40MS	HK-50AS1	HK-63AS1	HK-80AS
13	PSD-32	PSD-40	PSD-50	PSD-63	PSD-80
14	MYA-16	MYA-20	PNY-28	PNY-32	MYA-16
15	P-26	G-35	G-45	G-60	G-75
16	S-29	S-36	S-46	S-60	

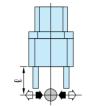
HK Series Cross Roller Parallel Hand

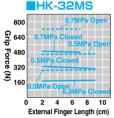
Performance Data

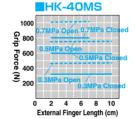
■Grip Force

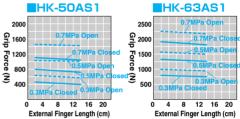
The graph shows grip force in opening and closing with effective external finger lengths ℓ from gripper cover surface under different air pressure (MPa)

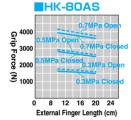












HK-32MS/40MS/50AS1/63AS1/80AS

Layout Drawing

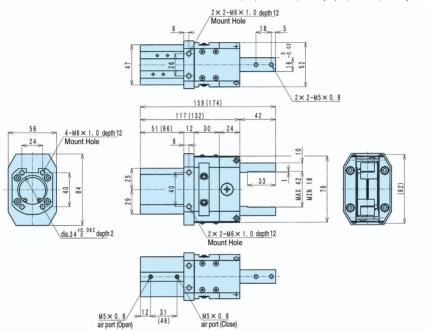
(o)

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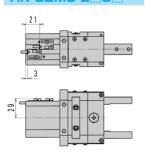
■HK-32MS (Optimal Grip Force 200N to 350N)

HK-32MS Standard • NO • NC

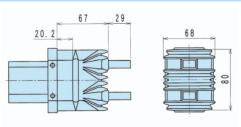
*Values inside () are for NO (Normally Open) and NC (Normally Closed) type



HK-32MS-E S



HK-32MS-G



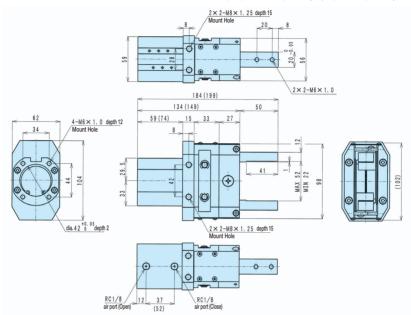
HK Series Cross Roller Parallel Hand

Layout Drawing

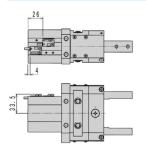
HK-40MS (Optimal Grip Force 350N to 600N)

HK-40MS Standard • NO • NC

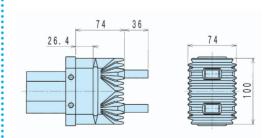
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HK-40MS-EUS



HK-40MS-G



HK-32MS/40MS/50AS1/63AS1/80AS

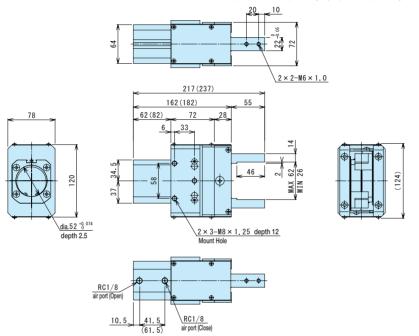


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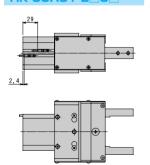
HK-50AS1 (Optimal Grip Force 500N to 800N)

HK-50AS1 Standard • NO • NC

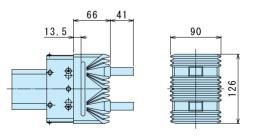
*Values inside () are for NO (Normally Open) and NC (Normally Closed) type



HK-50AS1-EUSU



HK-50AS1-G





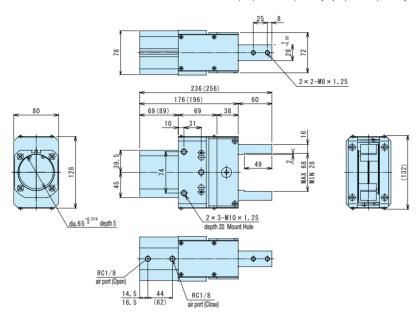
HK Series Cross Roller Parallel Hand

Layout Drawing

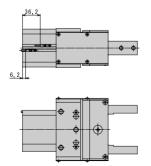
HK-63AS1 (Optimal Grip Force 800N to 1400N)

HK-63AS1 Standard • NO • NC

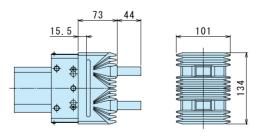
*Values inside () are for NO (Normally Open) and NC (Normally Closed) type



HK-63AS1-EUSU



HK-63AS1-G



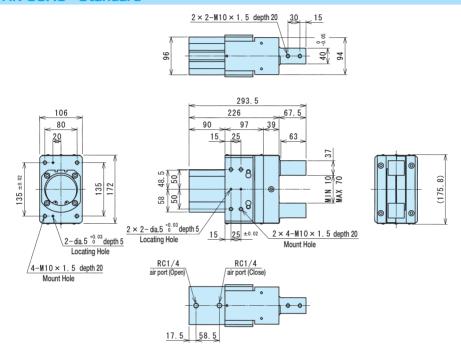
HK-32MS/40MS/50AS1/63AS1/80AS



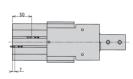
For CAD data, please go to >518p

HK-80AS (Optimal Grip Force 2000N to 3000N)

HK-80AS Standard



HK-80AS-E S



HK-80AS-G

