

Oil-Proof Hand HMGK Series

Low Height Wide Opening Crab-Shaped Parallel Hand for Use in Multi-Purpose Application

Key Features

■ Small and light-weight

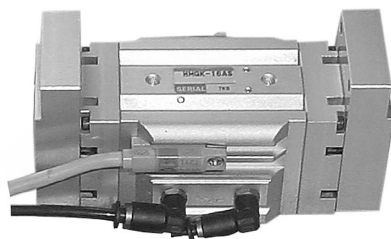
Low profile design for use in confined spaces via simple and compact body

■ Powerful grip force

High grip force by using 2 pistons

■ Long stroke for handling multiple workpieces in different sizes

Long motion stroke for multi-purpose use



HMGK-16AS

*Oil-Proof Sensors can be mounted

How To Order

Standard ----- **HMGK-16AS**

Option ----- **HMGK - 16AS - E40LS2 - Z** ----- HMGK-16AS with 2 of E40L non-contact reed switches and special processing

Clean Room & Special Type

Size	
Symbol	
16AS	
20AS	
25AS	

Sensor, Quantity			
Symbol	Name	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

For sensor detail ▶277P

Option			
Symbol	Name	Symbol	Name
Z	Special Type (Custom)		

For option detail ▶36P

Specification

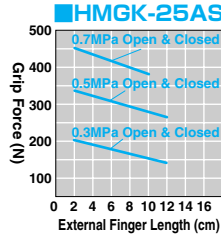
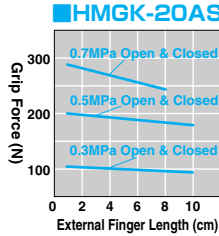
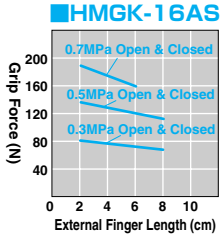
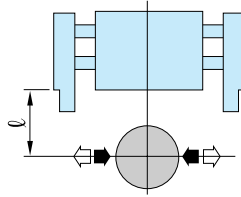
Model	HMGK-16AS For Layout Drawing ▶344P			HMGK-20AS For Layout Drawing ▶345P			HMGK-25AS For Layout Drawing ▶346P		
	Standard	L1	L2	Standard	L1	L2	Standard	L1	L2
Working Pressure	Pneumatic: 0.3 to 0.7MPa								
Lubrication	Not Required or Turbine Oil Class 1 (ISOVG32)								
Ambient Temperature (°C)	5 to 60								
Total Jaw Stroke (mm)	30	60	80	40	80	100	50	100	120
Cylinder Diameter (mm)	dia.16×2			dia.20×2			dia.25×2		
Rod Diameter (mm)	dia.8			dia.10			dia.12		
Internal Volume [Reciprocation] (cm ³ /time)	9.05	18.1	24.1	18.8	37.6	47	37.7	75.4	90.5
Repeatability (mm)	±0.1								
Weight (kg)	0.65	1.06	1.23	1.07	1.75	1.94	2	2.46	2.6

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 (→) ————

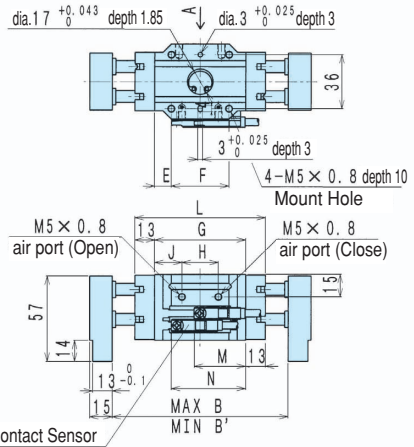
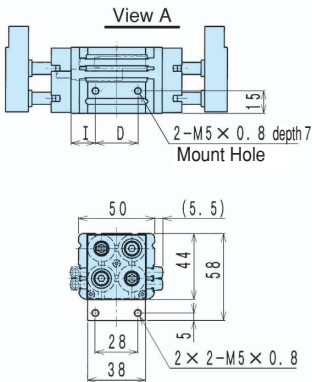


Layout Drawing

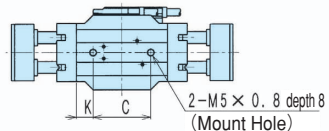
For CAD data, please go to [▶518P](#)

■ HMGK-16AS (Optimal Grip Force 80N to 160N)

HMGK-16AS Standard • L1 • L2



	B	B'	C	D	E	F	G	H	I	J	K	L	M	N
Standard	11.6	8.6	3.8	2.8	1.1	3.8	6.0	2.4	1.6	1.8	1.1	8.6	3.3	9.4
L1	17.6	11.6	6.8	5.4	2.6	3.8	9.0	5.4	1.8	1.8	1.1	11.6	4.2	5.7
L2	21.2	13.2	8.4	7.0	2.6	5.4	10.6	7.0	1.8	1.8	1.1	13.2	4.2	5.8

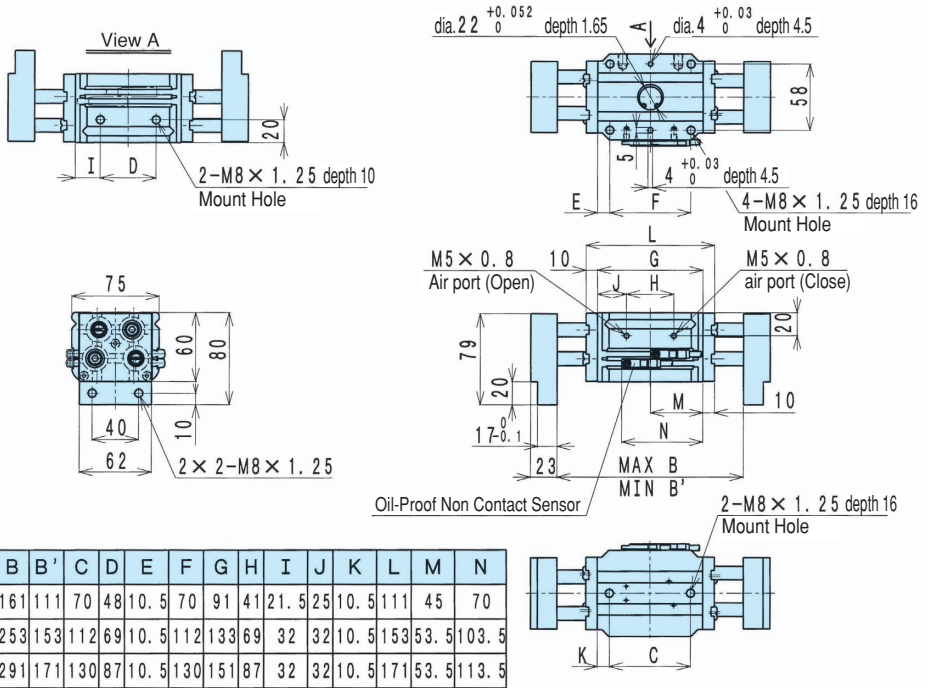


HMGK-16AS/20AS/25AS

For CAD data, please go to **▶518P**

■HMGK-25AS (Optimal Grip Force 150N to 350N)

HMGK-25AS Standard •L1•L2



Clean Room &
Special Type