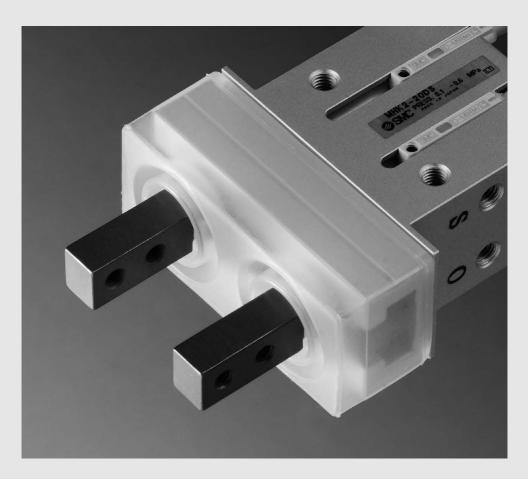
Wedge Cam Operation Slide Guide

MHK2 Series

Air Gripper/2-Finger Type Ø12, Ø16, Ø20, Ø25



Load Resistant, Dust Cover for Adverse Environments

2 types of finger materials

Standard: Carbon steel
Option: Stainless steel

3 types of dust cover materials

Standard: Chloroprene rubber (CR) ····· Black
Optional: Fluororubber (FKM) ····· Black

Silicone rubber ····· White



Wedge Cam Operation Provides tering location Dust Cover for Adverse

Top mounting centering location

Wedge Cam Operation Slide Guide
Air Gripper (2-Finger Type)

Pin hole for positioning on top side

Auto switch mountable

Grooves for auto switch are located on one side. Easy handling for adjustment and installation.

Built-in adjustment needle for finger speed

Possible to adjust the speed for finger closing direction.

High rigidity

Slide type guide bearing enables highly rigid finger motion.

High precision repeatability: ±0.01 mm

2 types of finger materials are available for different applications.

Standard: Carbon steel Option: Stainless steel

Wedge cam structure

The wedge structure allows no lateral vibration along stroke direction once work is held.

Improved performance
Incorporation of dust cover prevents
dust, water, etc. from entering the
body and avoids generating dust
and releasing grease from air gripper.

3 types of dust covers are available for use in different environments.

Standard: Chloroprene rubber (CR) ······ Black
Optional: Fluororubber (FKM) ······ Black
Silicone rubber ····· White

Longer strokes are now standard.

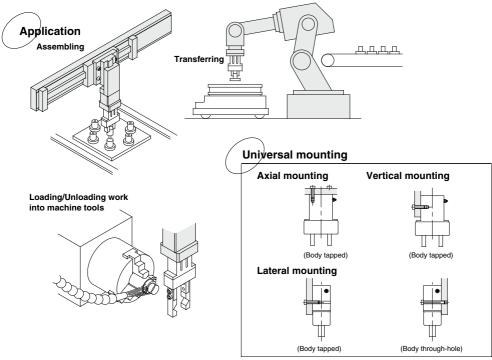


Opening/Closing stroke (mm)				
Long stroke	Standard stroke			
11	4			
14	6			
18	10			
22	14			
	Long stroke 11 14 18			

High Precision and Rigidity. Environmental Conditions.



MHK2 Series



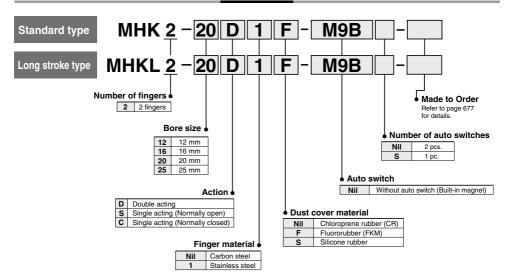
Interchangeable with MHQG2 Series

Series Variations

	ics variations				
	Series	Model	Bore size (mm)	Opening/Closing stroke (mm)	Option
		MHK2-12□	12	4	■Finger option Carbon steel (Standard),
g	Standard type	MHK2-16□	16	6	Stainless steel
Solo	MHK2 Series	MHK2-20□	20	10	■Dust cover option Chloroprene rubber (Standard)
je je		MHK2-25□	25	14	Fluororubber
opening/closing		MHKL2-12□	12	11	Silicone rubber Auto switch
9	Long stroke type	MHKL2-16□	16	14	Solid state switch
Parallel	MHKL2 Series	MHKL2-20□	20	18	D-M9N(V), D-M9P(V) D-M9B(V), Water resistant
Δ.		MHKL2-25□	25	22	(2-color indicator), D-M9□A(V)

Wedge Cam Operation Slide Guide Air Gripper/2-Finger Type MHK2 Series 912, 916, 920, 925

How to Order



Applicable Auto Switches/Refer to pages 929 to 983 for further information on auto switches.

	0					بقامير اممط		Auto Swit	ch model	Lead wir	e ler	igth	(m)*			
Type	Special	Electrical			L	oad volta	age	Electrical en	try direction	0.5	1	3	5	Pre-wired connector	Applical	ole load
	function	entry	light	(Output)	D	С	AC	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	connector		
				3-wire (NPN)		5 V,		M9NV	M9N	•	•	•	0	0	IC	
달	_			3-wire (PNP)		12 V	2 V 5 V,	M9PV	M9P	•	•	•	0	0	circuit	-
switch				2-wire	<u> </u>	12 V		M9BV	M9B	•	•	•	0	0		
anto	Disease			3-wire (NPN)		5 V,		M9NWV	M9NW	•	•	•	0	0	IC	Relay,
	Diagnosis (2-color indicator)	Grommet	Grommet Yes	3-wire (PNP)		12 V		M9PWV	M9PW	•	•	•	0	0	circuit	PLC
state	(2-color indicator)	or indicator)		2-wire		12 V		M9BWV	M9BW	•	•	•	0	0		
olids	14/-4			3-wire (NPN)		5 V,		M9NAV**	M9NA**	0	0	•	0	0	IC	
Sol	Water resistant (2-color indicator)			3-wire (PNP)		12 V		M9PAV**	M9PA**	0	0	•	0	0	circuit	
	(2-color indicator)			2-wire		12 V		M9BAV**	M9BA**	0	0	•	0	0	_	

^{**} Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.

* Lead wire length symbols: 0.5 m ······ Nil (Example) M9NW

1 m ······· M (Example) M9NWM

3 m ······ L (Example) M9NWL 5 m ····· Z (Example) M9NWZ * Auto switches marked with a "O" symbol are produced upon receipt of order.

Note) When using the 2-color indicator type, please make the setting so that the indicator is lit in red to ensure the detection at the proper position of the air gripper.



Wedge Cam Operation Slide Guide Air Gripper/2-Finger Type MHK2 Series

Specifications



Fluid			Air		
	Dou	uble acting	0.1 to 0.6 MPa		
Operating	Single	Normally open	0.051, 0.0145		
pressure	acting	Normally closed	0.25 to 0.6 MPa		
Ambient and	d fluid temp	erature	−10 to 60°C		
Repeatabilit	у		±0.01 mm		
Lubrication			Not required		
Action Auto switch (Option) Note)			Double acting/Single acting		
			Solid state auto switch (3-wire, 2-wire)		

Note) Refer to pages 929 to 983 for further information on auto switches.

Symbol

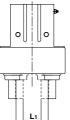


Single acting/ Normally closed: Internal grip

Single acting/ Normally open: External grip







MHK2 Series MHKL2 Series

L₂

Made to Order: Individual Specifications (For details, refer to pages 691 and 692.)

Symbol	Specifications/Description
-X39	With grease nipple
-X41	Auto switch groove (Both-side type)

Made to Order

Click here for details

Symbol	Specifications/Description
-X4	Heat resistance (100°C)
-X5	Fluororubber seal
-X7	Closing direction spring assist
-X12	Opening direction spring assist
-X50	Without magnet
-X53	EPDM seal/Fluorine grease
-X63	Fluorine grease
-X64	Finger: Side tapped mounting
-X65	Finger: Through-hole mounting
-X77A	Dust cover adhesion
-X77B	Dust cover adhesion (Finger part only)
-X78A	Dust cover caulking
-X78B	Dust cover caulking (Finger part only)
-X79	Grease for food processing machines, Fluorine grease
-X79A	Grease for food processing machines

Option

Finger material	Carbon steel (Standard), Stainless steel
Dust cover material	Chloroprene rubber (CR) (Standard), Fluororubber (FKM), Silicone rubber

Model

MHK2 Series/Standard Type

	Actio	n	Model	Bore size (mm)	Max. operating frequency (c.p.m)	Effective gripping force per finger (N)	Opening/Closing stroke (mm) L2-L1	Width at closing (mm) L1	Width at opening (mm) L2	Weight (g)
	D		MHK2-12D□	12		External grip: 15 Internal grip: 16	4	9	13	75
	Double acting		MHK2-16D□	16		External grip: 31 Internal grip: 36	6	14.6	20.6	113
			MHK2-20D□	20		External grip: 46 Internal grip: 56	10	16	26	235
	٥		MHK2-25D□	25		External grip: 80 Internal grip: 86	14	19	33	440
		uə	MHK2-12S□	12	120	9	4	9	13	76
		y op	MHK2-16S□	16		23	6	14.6	20.6	114
	ng	Normally open	MHK2-20S□	20		34	10	16	26	237
	acti	٩	MHK2-25S□	25		58	14	19	33	443
	Single acting	pesolo	MHK2-12C□	12		12	4	9	13	76
	ίΞ		MHK2-16C□	16		25	6	14.6	20.6	115
		Normally	MHK2-20C□	20		44	10	16	26	237
		Nor	MHK2-25C□	25		73	14	19	33	443

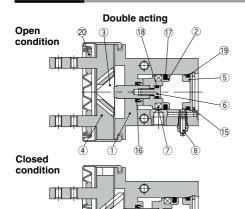
MHKL2 Series/Long Stroke Type

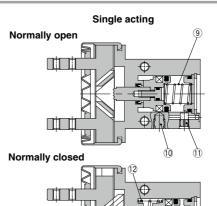
Acti	on	Model	Bore size (mm)	Max. operating frequency (c.p.m)	Effective gripping force per finger (N)	Opening/Closing stroke (mm) L2-L1	Width at closing (mm)	Width at opening (mm)	
,	n	MHKL2-12D□	12		External grip: 14 Internal grip: 16	11	9	20	104
		MHKL2-16D□	16		External grip: 27 Internal grip: 30	14	14.6	28.6	164
9		MHKL2-20D□	20		External grip: 45 Internal grip: 53	18	16	34	312
	1	MHKL2-25D□	25		External grip: 79 Internal grip: 90	22	19	41	562
	- E	MHKL2-12S□	12	90	9	11	9	20	105
	do	MHKL2-16S□	16	ı	17	14	14.6	28.6	165
ق ا	Normally open	MHKL2-20S□	20		32	18	16	34	314
Single acting	2	MHKL2-25S□	25		53	22	19	41	565
<u>8</u>	peg	MHKL2-12C□	12		11	11	9	20	105
Sin	85	MHKL2-16C□	16		22	14	14.6	28.6	166
	Normally closed	MHKL2-20C□	20		40	18	16	34	314
	Š	MHKL2-25C□	25		63	22	19	41	565

Note) At the pressure of 0.5 MPa, when gripping point L is 20 mm.
Single acting nomally open: External holding force, Single acting nomally closed:
Internal gripping force.
Refer to "Effective Gripping Force" for the gripping force at each gripping position on pages
679 to 683.



Construction





Component Parts



No.	Description	Material	Note
	Description		Note
12	N.C. spring	Piano wire	
13	Plug assembly	Brass	Electroless nickel plated
14	Exhaust plug A	Brass	Electroless nickel plated
15	Type C retaining ring for hole	NBR	Nickel plated
16	Rod seal	NBR	
17	Piston seal	NBR	
18	Gasket	NBR	
19	Gasket	Carbon steel	
		Chloroprene rubber	
20	Dust cover	Fluororubber	
		Silicone rubber	

MHK2 Replacement Parts

Descri	ptio	n	MHK2-12□	MHK2-16□	MHK2-20□	MHK2-25□	Main parts			
Seal kit			MHK12-PS	MHK16-PS	MHK20-PS	MHK25-PS	16(7)(8(9)			
Piston asse	mb	ly	MHK-A1201	MHK-A1601	MHK-A2001	MHK-A2501	267			
Cam	Cam		P3318103	P3318203	P3318303	P3318403	3			
Finance	Material	Carbon steel	P3318104	P3318204	P3318304	P3318404	(4)			
Finger	Mat	Stainless steel	P3318104-1	P3318204-1	P3318304-1	P3318404-1	•			
Needle asse	mt	oly		MHK-	A1206		8			
	ria	Chloroprene rubber	MHK2-J12	MHK2-J16	MHK2-J20	MHK2-J25				
Dust cover	ater	Fluororubber	MHK2-J12F	MHK2-J16F	MHK2-J20F	MHK2-J25F	20			
	ž	Silicone rubber	MHK2-J12S	MHK2-J16S	MHK2-J20S	MHK2-J25S				

^{*} Order 2 pieces per one finger unit.

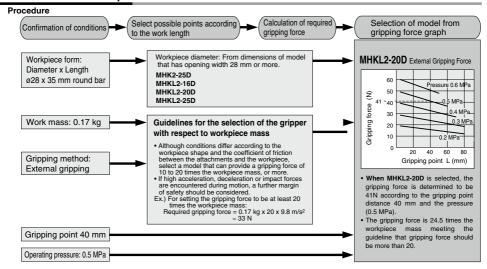
Replacement part/Grease pack part no.: MH-G01 (30 g)

MHKL2 Replacement Parts

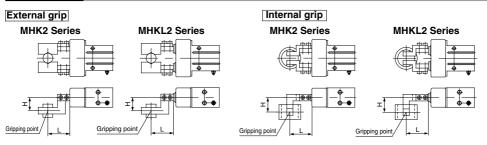
	mintal replacement rante										
Descri	otio	n	MHKL2-12□	MHKL2-16□	MHKL2-20□	MHKL2-25□	Main parts				
Seal kit			MHK12-PS	MHK16-PS	MHK20-PS	MHK25-PS	607809				
Piston asse	mb	ly	MHK-A1201	MHK-A1601	MHK-A2001	MHK-A2501	267				
Cam	Cam		P3318111	P3318211	P3318311	P3318411	3				
Finger	Material	Carbon steel	P3318112	P3318212	P3318312	P3318412	(4)				
riligei	Mat	Stainless steel	P3318112-1	P3318212-1	P3318312-1	P3318412-1	4)				
Needle asse	mb	ly		MHK-	A1206		8				
	ial	Chloroprene rubber	MHKL2-J12	MHKL2-J16	MHKL2-J20	MHKL2-J25					
Dust cover	aterial	Fluororubber	MHKL2-J12F	MHKL2-J16F	MHKL2-J20F	MHKL2-J25F	20				
	Š	Silicone rubber	MHKL2-J12S	MHKL2-J16S	MHKL2-J20S	MHKL2-J25S					

^{*} Order 2 pieces per one finger unit.

Model Selection Example

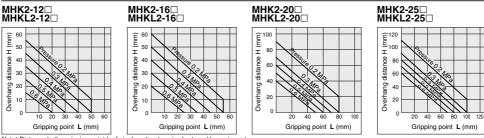


Gripping Point



- L: Gripping point distance
- H: Overhang distance
- Proper gripping points should be selected in accordance with the operating pressure. The distance to the
 gripping point L and the overhang distance H should be within the limited range given in the graphs below.
- When the gripping point distance becomes large, the finger attachment applies an excessively large load to the finger sliding section, causing excessive play of the fingers and possibly leading to premature failure.

Gripping Point Range Limit



Note) Distance to the gripping point L of single acting type is shortened by spring return.

Use air gripper within gripping force line shown for each pressure in effective gripping force graph.



Effective Gripping Force: MHK2 Series Double Acting

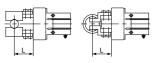
• Indication of effective gripping force

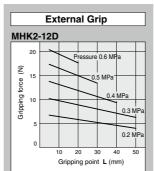
The effective gripping force shown in the graphs to the right is expressed as F, which is the thrust of one finger, when both fingers and attachments are in full contact with the workpiece as shown in the figure below.

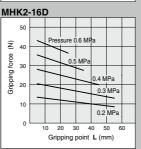


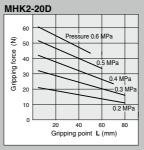
External grip MHK2 Series

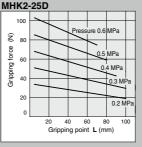
Internal grip MHK2 Series

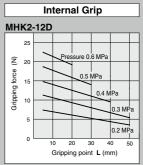


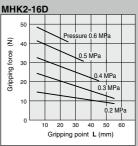


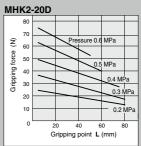


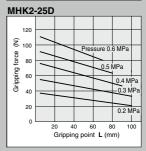












Effective Gripping Force: MHKL2 Series Double Acting

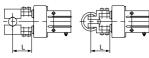
• Indication of effective gripping force

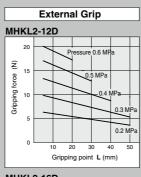
The effective gripping force shown in the graphs to the right is expressed as **F**, which is the thrust of one finger, when both fingers and attachments are in full contact with the workpiece as shown in the figure below.

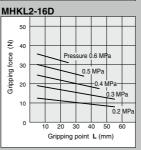


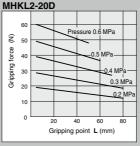
External grip MHKL2 Series

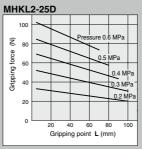
Internal grip MHKL2 Series

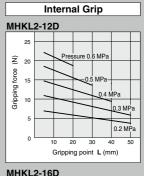


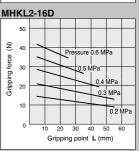


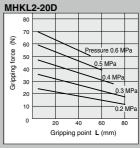


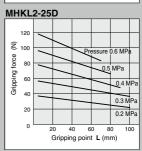














Effective Gripping Force: MHK2 Series Single Acting

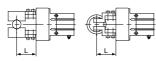
• Indication of effective gripping force

The effective gripping force shown in the graphs to the right is expressed as F, which is the thrust of one finger, when both fingers and attachments are in full contact with the workpiece as shown in the figure below.



Note) In case of single acting type, the value is for stroke center.

External grip Internal grip MHK2 Series MHK2 Series



· Precautions when using the single acting type: If a moment such as that illustrated below is applied to the finger, the finger might not be able to retract by the spring force alone.

Therefore, make sure to use the air gripper within the allowable moment that is indicated in the table below.

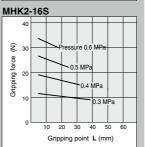
Allowable Moment

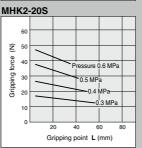
Model	Allowable moment (N·m)
MHK2-12S/C	0.05
MHK2-16S/C	0.12
MHK2-20S/C	0.25
MHK2-25S/C	0.49

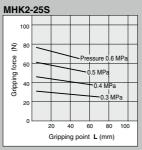
M: Allowable moment (M = WL)

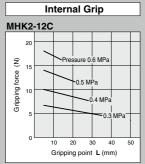


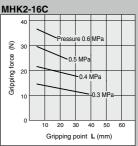
External Grip MHK2-12S ĝ Pressure 0.6 MPa Gripping force 0.5 MPa 0.4 MPa 0.3 MPa Gripping point L (mm)

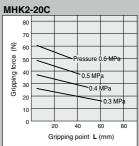


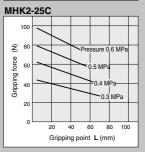












Effective Gripping Force: MHKL2 Series Single Acting

· Indication of effective gripping force

The effective gripping force shown in the graphs to the right is expressed as **F**, which is the thrust of one finger, when both fingers and attachments are in full contact with the workpiece as shown in the figure below.

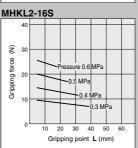


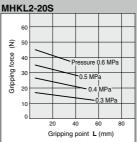
Note) In case of single acting type, the value is for stroke center.

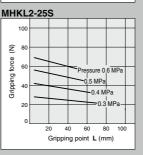
Pressure 0.6 MPa 90 10 0.5 MPa 0.4 MPa 0.3 MPa 10 20 30 40 50 Gripping point L (mm)

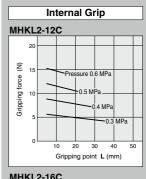
External Grip

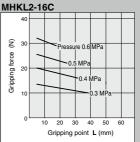
MHKL2-12S

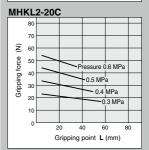


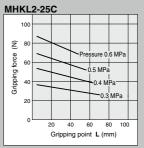






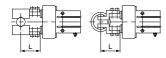






External grip MHKL2 Series

Internal grip MHKL2 Series

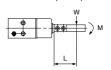


 Precautions when using the single acting type: If a moment such as that illustrated below is applied to the finger, the finger might not be able to retract by the spring force alone.
 Therefore, make sure to use the air gripper within the allowable moment that is indicated in the table below.

Allowable Moment

Model	Allowable moment (N·m)
MHKL2-12S/C	0.05
MHKL2-16S/C	0.12
MHKL2-20S/C	0.25
MHKL2-25S/C	0.49

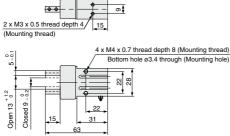
M: Allowable moment
(M = WL)

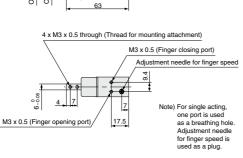


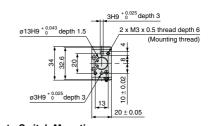


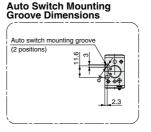
Dimensions

MHK2-12□: Standard type

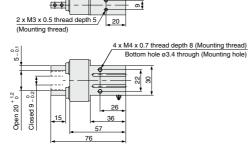


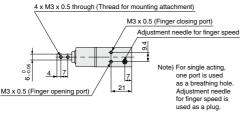


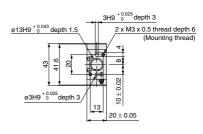




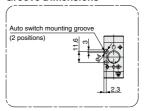
MHKL2-12□: Long stroke type



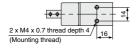


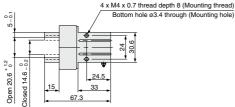


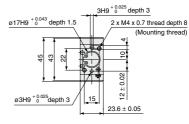
Auto Switch Mounting Groove Dimensions



MHK2-16□: Standard type

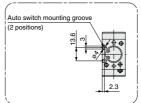




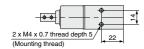


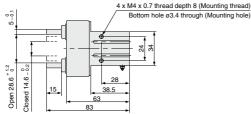
4 x M3 x 0.5 through (Thread for mounting attachment) M5 x 0.8 (Finger closing port) Adjustment needle for finger speed Adjustment needle for finger speed as a breathing hole. Adjustment needle for finger speed as a breathing hole. Adjustment needle for finger speed is used as a plud.

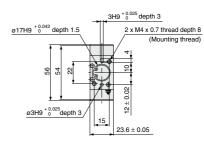
Auto Switch Mounting Groove Dimensions

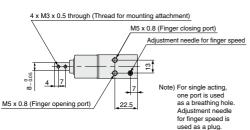


MHKL2-16□: Long stroke type

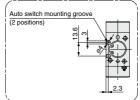








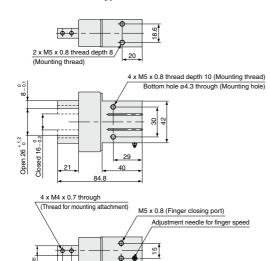
Auto Switch Mounting Groove Dimensions





Dimensions

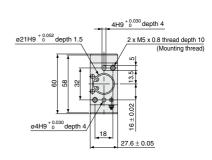
MHK2-20□: Standard type



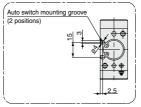
21

Note) For single acting, one port is used as a breathing hole

Adjustment needle for finger speed is used as a plug.

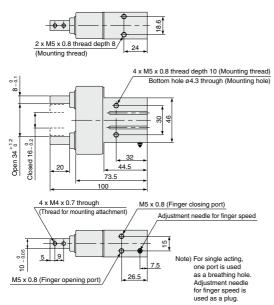


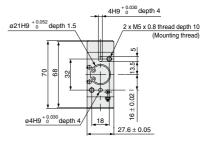
Auto Switch Mounting Groove Dimensions



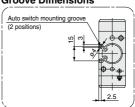
MHKL2-20□: Long stroke type

M5 x 0.8 (Finger opening port)

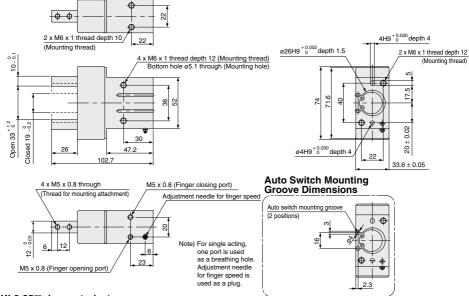




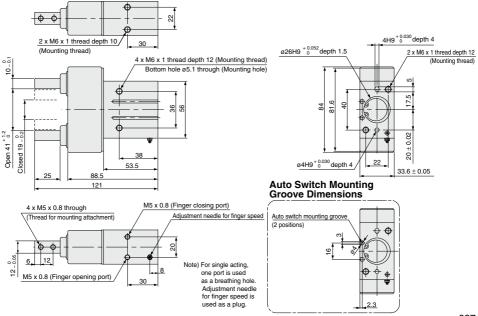
Auto Switch Mounting Groove Dimensions



MHK2-25□: Standard type



MHKL2-25□: Long stroke type

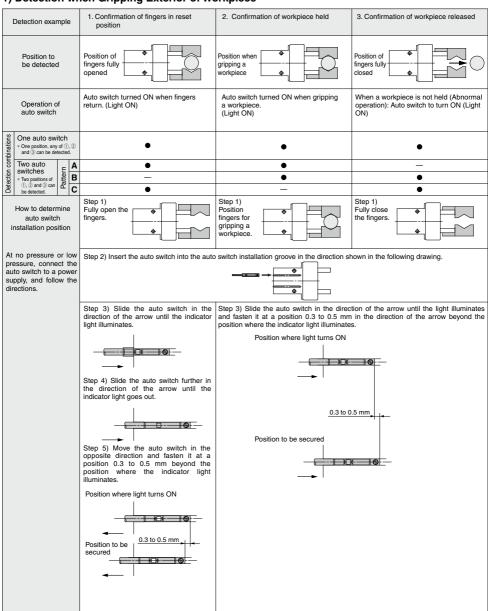


MHK2/MHKL2 Series

Auto Switch Installation Examples and Mounting Positions

Various auto switch applications are possible through different combinations of auto switch quantities and detecting positions.

1) Detection when Gripping Exterior of Workpiece



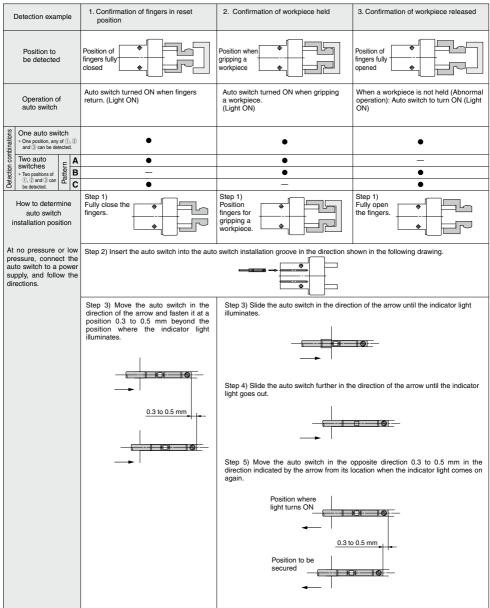
Note 1) It is recommended that gripping of a workpiece be performed close to the center of the finger stroke.

Note 2) When holding a workpiece close at the end of open/close stroke of fingers, detecting performance of the combinations listed in the above table may be limited, depending on the hysteresis of an auto switch, etc.



Various auto switch applications are possible through different combinations of auto switch quantities and detecting positions.

2) Detection when Gripping Interior of Workpiece



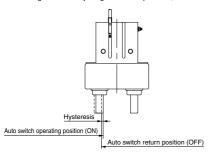
Note 1) It is recommended that gripping of a workpiece be performed close to the center of the finger stroke.

Note 2) When holding a workpiece close at the end of open/close stroke of fingers, detecting performance of the combinations listed in the above table may be limited, depending on the hysteresis of an auto switch, etc.



Auto Switch Hysteresis

Auto switches have hysteresis similar to micro switches. Use the table below as a guide when adjusting auto switch positions, etc.

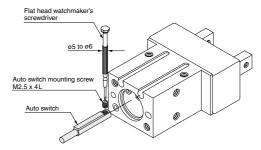


	Max. hysteresis (mm)
Auto Switch Model	D-M9□(V) D-M9□A(V) M9□W(V)
MHK□2-12	0.1
MHK□2-16	0.1
MHK□2-20	0.3
MHK□2-25	0.2

Auto Switch Mounting

To set the auto switch, insert the auto switch into the installation groove of the gripper from the direction indicated in the following drawing.

After setting the position, tighten the attached auto switch mounting set screw with a flat head watchmaker's screwdriver.

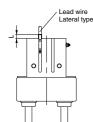


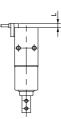
Note) Use a watchmaker's screwdriver with a grip diameter of 5 to 6 mm to tighten the auto switch mounting screw

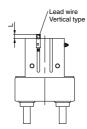
Also, tighten with a torque of about 0.05 to 0.15 N·m, or about 0.05 to 0.10 N⋅m for D-M9□A(V).

Protrusion of Auto Switch from Edge of Body

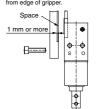
- The amount of auto switch protrusion from the body's end surface is as shown in the table below.
- · Use the table as a guideline for mounting.







Note) When auto switch for MHK2, MHKL2 is set on mounting side as figure below, allow for at least 1 mm on mounting plate since the auto switch is protruded from edge of gripper.



					(mm)
	Lead wire type	In-line electri	cal entry type	Perpendicular electrial entry type	Perpendicular electrial entry type
Air gripper model	o switch model	D-M9□ D-M9□W	D-M9□A	D-M9□V D-M9□WV	D-M9□AV
MHK2-12□	Open	_	_	_	_
WITK2-12□	Closed	3	5	_	3
MUKO 40	Open	_	_	_	_
MHK2-16□	Closed	3	5	1	3
MULICO COC	Open	_	_	_	_
MHK2-20□	Closed	1	3	_	1
MUICO OF	Open	_	_	_	_
MHK2-25□	Closed	2	4	_	2
MHKL2-12□	Open	_	_	_	_
MHKL2-12	Closed	3	5	_	3
MHKL2-16□	Open	_	_	_	_
MHKL2-16	Closed	3	5	1	3
MULICI O CO	Open	_	_	_	_
MHKL2-20□	Closed	1	3	_	1
	Open	_	_	_	_
MHKL2-25□	Closed	1	3	_	1

Note) There is no protrusion if no values are entered in the table.



Made to Order: Individual Specifications 1

Please contact SMC for detailed dimensions, specifications, and delivery times.



Symbol

-X39

1 With Grease Nipple

Lubrication from grease cup to interior is possible.

How to Order

MHK Standard part number - X39

Specifications

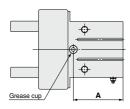
Bore size (mm)	16, 20, 25	
Action	Double acting, Single acting (Normally open, Normally closed)	
Lubricant grease	MHK standard grease (MH-G01)	
Grease nipple position	Refer to the dimensions and figure below.	
Specifications/dimensions other than the above	Same as the standard type	

Note 1) Fill lubricant to the bearing from the grease cup in order to prevent foreign particles from getting in. The use of special grease MH-G01 for MHK is recommended.

Note 2) Not compatible with ø12.

Dimensions (Dimensions other than specified below are the same as the standard type.)

MHK2 Series MHKL2 Series



	(mm)
Model	Α
MHK2-16□□□-X39	30.5
MHK2-20□□□-X39	37.5
MHK2-25□□□-X39	45
MHKL2-16□□□-X39	36
MHKL2-20□□□-X39	42
MHKL2-25□□□-X39	47.5

Made to Order: Individual Specifications 2

Please contact SMC for detailed dimensions, specifications, and delivery times.

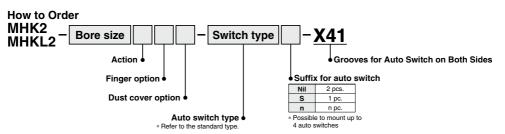


Symbol

-X41

2 Grooves for Auto Switch on Both Sides

It is possible to select the auto switch mounting side. A maximum of 4 auto switches are mountable.

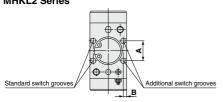


Specifications

Bore size (mm)	12, 16, 20, 25
Additional switch groove position	Refer to the dimensions and figures below.
Specifications/dimensions other than the above	Same as the standard type

Dimensions (Dimensions other than specified below are the same as the standard type.)

MHK2 Series MHKL2 Series



		(mm)
Model	Α	В
MHK2-12 X41 MHKL2-12 X41	10.4	1.8
MHK2-16 X41 MHKL2-16 X41	12.8	1.6

^{*} Dimensions A and B of other models are same as standard switch grooves.





MHK2 Series Specific Product Precautions

Be sure to read this before handling the products. Refer to page 7 for safety instructions and pages 14 to 22 for air gripper and auto switch precautions.

Mounting Air Grippers/MHK2 Series

Pssible to mount from 3 directions.

Axial Mounting (Body tapped)



Model	Applicable bolts	Max. tightening torque N·m	Max. screw-in depth L mm
MHK2 -12□ MHKL2-12□	M3 x 0.5	0.88	6
MHK2 -16□ MHKL2-16□	M4 x 0.7	2.1	8
MHK2 -20□ MHKL2-20□	M5 x 0.8	4.3	10
MHK2 -25	M6 x 1	7.3	12

Vertical Mounting (Body tapped)



Model	Applicable bolts	Max. tightening torque N·m	Max. screw-in depth L mm
MHK2 -12	M3 x 0.5	0.59	4
MHKL2-12	M3 x 0.5	0.74	5
MHK2 -16□	M4 x 0.7	0.88	4
MHKL2-16□	M4 x 0.7	1.3	5
MHK2 -20□ MHKL2-20□	M5 x 0.8	3.3	8
MHK2 -25□ MHKL2-25□	M6 x 1	5.9	10

Lateral mounting (Body tapped and through-hole)

Body tapped



Model	Applicable bolts	Max. tightening torque N·m	Max. screw-in depth L mm
MHK2 -12□ MHKL2-12□	M4 x 0.7 2.1		8
MHK2 -16□ MHKL2-16□	IVI4 X U.7	2.1	8
MHK2 -20□ MHKL2-20□	M5 x 0.8	4.3	10
MHK2 -25 MHKL2-25	M6 x 1	7.3	12

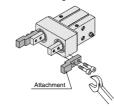
●Body through-hole



Model	Applicable bolts	Max. tightening torque N·m
MHK2 -12□ MHKL2-12□ MHK2 -16□ MHKL2-16□	M3 x 0.5	0.88
MHK2 -20□ MHKL2-20□	M4 x 0.7	2.1
MHK2 -25□ MHKL2-25□	M5 x 0.8	4.3

How to Mount the Attachment to the Finger

- To mount the attachment to the finger, make sure to use a wrench to support the attachment so as not to apply undue strain on the finger.
- Refer to the table below for the proper tightening torque on the bolt used for securing the attachment to the finger.



Model	Applicable bolts	Max. tightening torque N·m
MHK2 -12 MHKL2-12 MHK2 -16 MHKL2-16	M3 x 0.5	0.59
MHK2 -20□ MHKL2-20□	M4 x 0.7	1.4
MHK2 -25	M5 x 0.8	2.8