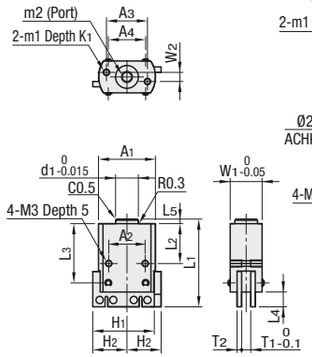
Compact Parallel Grippers



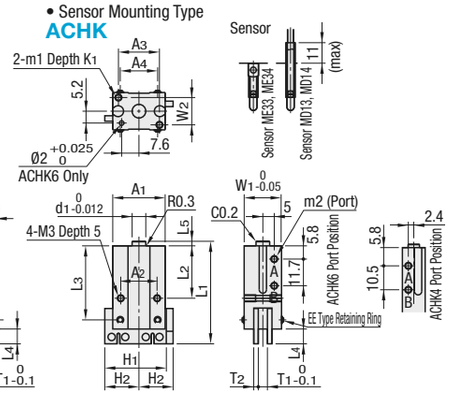


RoHS

• Without Sensor Slot
ACHE



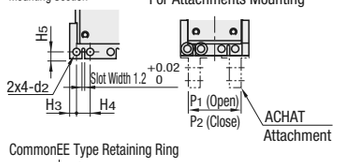
• Sensor Mounting Type
ACHK



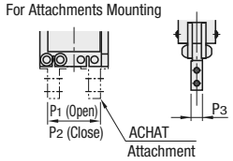
Sensor

Common Fingers / Attachment Mounting Section

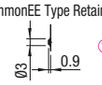
For Attachments Mounting



For Attachments Mounting



CommonEE Type Retaining Ring



The drawing shows with no air supplied.

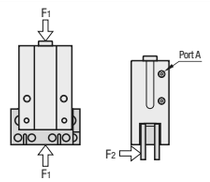
The drawing shows Single Acting: Without Air
Double Acting: With Air in Port B

Part Name	Material	Surface Treatment
Main Body	EN AW-5056 Equiv.	Clear Anodize
Finger / Attachment Mounting Part	EN 1.1191 Equiv.	Nitriding Treatment

For Finger (Attachment) details, see **P.1502**.

Part Number Type	Stroke	Selection Single Acting	Selection Double Acting	A1	A2	A3	A4	L1	L2	L3	L4	L5	H1	H2	H3	H4	H5	W1	W2	T1	T2	d1	d2	m1	m2	K1	P1	P2	P3
ACHE	4	N	-	22	12	13.6	14.4	33.5	16.5	22.5	5.5	1.5	24	13	2.5	5	2.5	10	4	3.1	1.5	6	2.2	3	3	6	20	16	4
	6			25	16	18	16.4	38.5	17.5	26	6.5	2	27	15	3	6	3	14	-	4.1	2	10	3.2	3	5	6	23.2	17.2	5
ACHK	4	N	D	20	12	10	14.4	40.5	23.5	29.5	5.5	1.5	24	13	2.5	5	2.5	10	6	3.1	1.5	5	2.2	2.6	3	4	20	16	4
	6			23	16	18	16.4	45	23	32.5	6.5	2	27	15	3	6	3	16.4	12	4.1	2	6	3.2	3	3	6	23.2	17.2	5

Part Number Type	Stroke	Selection Single Acting	Selection Double Acting	Cylinder I.D.	Effective Gripping Force (N) Single Acting - Spring	Effective Gripping Force (N) Double Acting	Allowable Static Load (N) F1	Allowable Static Load (N) F2	Mass (g)	Sensor Slot	Unit Price 1 ~ 10 pc(s).
ACHE	4	N	-	8	4.2(1)	-	5	2.5	17	No	
	6			10	7.2(1.3)	-	10	5	31		
ACHK	4	N	D	8	4.2(1)	4.9	5	2.5	19	Yes	
	6			12	10.4(1.9)	12.2	10	5	37		



For the Specifications and Gripping Point Data, see Overview Page **P.1500**
Effective Gripping Force shown with Air Pressure: 0.4MPa and Holding Point: L=20mm.
The Allowable Static Load values are for reference only, not guaranteed.
The directions of the Allowable Static Load are shown in F1 and F2 on the right.

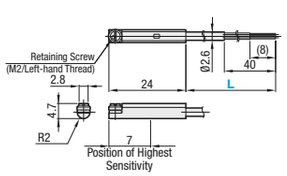
Ordering Example: Part Number **ACHK4** - Single / Double Acting **N**

Sensors for Pneumatic Grippers

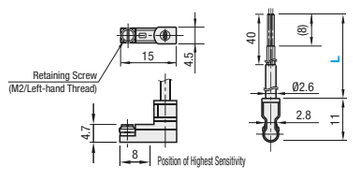


RoHS

MD 13
MD 14



ME 33
ME 34



Part Number Type	L Selection		Load Voltage	Load Current	Indicator Light	Sensor Type	Line	Wire Exit	Unit Price L1 (1m)	Unit Price L3 (3m)
	L1 (1m)	L3 (3m)	24VDC 110VAC	DC24V 5~40mA AC110V 5~20mA	LED (Lights when ON)	Contact	2-Line	Rear		
MD13			28VDC or Less	0.1~40mA		No Contact	3-Line			
MD14			10~28VDC	5~20mA			2-Line			
ME33			28VDC or Less	0.1~40mA			3-Line	Top		
ME34			10~28VDC	5~20mA			2-Line			

For detailed specifications of the Sensors, see **P.1484**
Operating Temp. Range: 0 ~ 60°C

Ordering Example: Part Number **MD14L1**

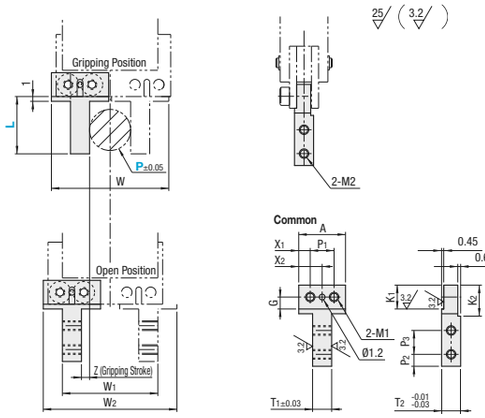
Attachments for Pneumatic Grippers



RoHS

	Type	Material	Surface Treatment	Accessory
Fixed	ACHAT	EN 1.1191 Equiv.	Tufftride®	Hex Socket Head Cap Screw: 2 pcs.
Configurable	ACHATW		Electroless Nickel Plating	Locating Pin: 1 pc.

The locating pin is press-fit into the pin hole before shipping.



Common Dimension

Gripper (Nominal)	T1	T2	P1	P2	P3	G	K1	K2	M1	M2	d
4	4	4	5	2.5	5	2.5	5	6.5	M2	M2	2.4
6	5.2	5	6	3	5.7	3	5.5	6.7	M3	M2.5	2.9

P indicates points where the workpiece is gripped.
Gripping Position indicate when air is in Port A.
The closing allowance is 0.3mm on each side.
The Configurable Type may have a centering hole on end faces.

Fixed

Part Number Type	Gripper (Nominal)	L	P	W	W1	W2	Z	A	X1	X2	Applicable Gripper	Unit Price 1 ~ 4 set(s) (2 pcs. per set)
ACHAT	4	12	8.6	22.4	20	25.8	1.7	9.8	2.4	4.9	ACHK4-□	
	6	14	7.4	24.4	23.2	29.8	2.7	11.8	2.9	5.9	ACHK6-□	

Unit Price is the price per set (both sides).

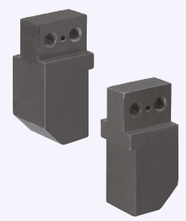
Ordering Example: Part Number **ACHAT4** - L **ACHATW4** - **L13** - P **P8.6**

Configurable

Part Number Type	Gripper (Nominal)	L 1mm Increment	P Selection	W	W1	W2	Z	A	X1	X2	Applicable Gripper	Unit Price 1 ~ 4 set(s) (2 pcs. per set)
ACHATW	4	12~18	0.6 8.6 16.6	24.6	P+11.4	28	1.7	12	3.5	6	ACHK4-□ ACHE4-N	
	6	14~25	0.6 7.4 14.2	24.6	P+15.8	30	2.7	12	3	6	ACHK6-□ ACHE6-N	

Unit Price is the price per set (both sides).

Fingers for Pneumatic Grippers



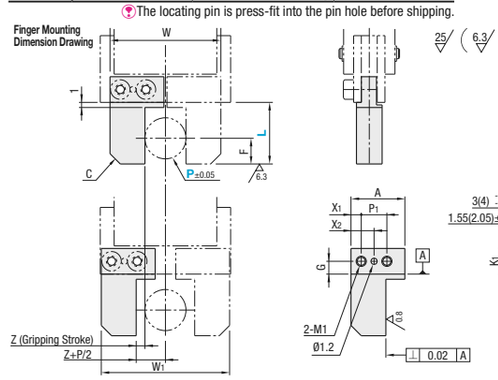
RoHS

Type	Material	Surface Treatment	Accessory
YFTB	EN 1.1191 Equiv.	Black Oxide	Hex Socket Head Cap
YFTM		Electroless Nickel Plating	Screw: 2 pcs. Locating Pin

The locating pin is press-fit into the pin hole before shipping.

Features: Flat-shaped fingers with a 0.3mm fastening allowance on each side. Workpiece weight and shape can be confirmed by specifying P Dimension.

Finger Mounting Dimension Drawing



Common Dimension

Gripper (Nominal)	P1	A	X1	X2	G	K1	K2	M1
4	5	10.5	2	4.5	2.5	5	5.5	M2
6	6	11.5	2.5	5.5	3	5.5	6.7	M3

Gripper (Nominal)	Applicable Gripper
4	ACHK4-N・ACHK4-D・ACHE4-N
6	ACHK6-N・ACHK6-D・ACHE6-N

( ) for 6mm Stroke

Gripper Body: 4mm Stroke (One-sided Stroke: 2mm)

Part Number Type	Gripper (Nominal)	P Reference Pin 0.1mm Increment	L 1mm Increment	F	C	T	Z	W	W1
YFTB YFTM	4	3.0~4.0	8~29	2	3	5	1.7	21.6	25
		4.1~5.0	8~30	2.5					
		5.1~6.0	9~30	3					
		6.1~7.0	9~31	3.5					
		7.1~8.0	10~31	4					
		8.1~9.0	11~32	4.5	2				
		9.1~10.0	12~32	5					

Gripper Body: 6mm Stroke (One-sided Stroke: 3mm)

Part Number Type	Gripper (Nominal)	P Reference Pin 0.1mm Increment	L 1mm Increment	F	C	T	Z	W	W1
YFTB YFTM	6	3.0~4.0	8~44	2	3	6	2.7	23.6	29
		4.1~5.0	8~45	2.5					
		5.1~6.0	9~45	3					
		6.1~7.0	9~46	3.5					
		7.1~8.0	10~46	4					
		8.1~9.0	11~47	4.5	2				
		9.1~10.0	12~47	5					

Ordering Example: Part Number **YFTB4** - P **P5.5** - L **L11**

Example

The length and width of the attachments are configurable.

