

Fingers for Grippers

Direct Mounting Type / Flat Shape

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

Fingers for Grippers

Type	Material	Surface Treatment	Hardness	Accessory
YFTB	1045 Carbon Steel or Equivalent or Equivalent	Black Oxide	—	Hex Socket Head Cap Screw; 2 pcs. Locating Pin
YFTM		Electroless Nickel Plating		

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

Finger Mounting Dimensional Drawings

For Mechanical Gripper

Ⓢ () for 6 mm Stroke

Common Dimension

Gripper (Nominal)	P ₁	A	X ₁	X ₂	G	K ₁	K ₂	M ₁
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 Body: 4 mm Stroke (One-Sided Stroke: 2 mm)

Part Number		P Reference Pin 0.1 mm Increment	L 1 mm Increment	F	C	T	Z	W	W ₁	Applicable Gripper Body
YFTB YFTM	4	3.0-4.0	8-29	2	3	5	1.7	21.6	25	ACHK4-N, ACHK4-D, ACHE4-N
		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: 6 mm Stroke (One-Sided Stroke: 3 mm)

Part Number		P Reference Pin 0.1 mm Increment	L 1 mm Increment	F	C	T	Z	W	W ₁	Applicable Gripper Body
YFTB YFTM	6	3.0-4.0	8-44	2	3	6	2.7	23.6	29	ACHK6-N, ACHK6-D, ACHE6-N
		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						

Part Number Example

Part Number: YFTB4 - P5.5 - L11

Application Example

The length and width of the attachments are configurable.

Fingers for Grippers

Attachment Mounting Type / Flat Type

For attachments refer to P.3579.

Fingers for Grippers

Type	Material	Surface Treatment	Hardness
AFYB	1045 Carbon Steel or Equivalent or Equivalent	Black Oxide	—
AFYM		Electroless Nickel Plating	
AFYBH	G040F (Pre-Hardened Steel)	Black Oxide	40-45 HRC min.
AFYMH		Electroless Nickel Plating	

Finger Mounting Dimensional Drawings

Ⓢ Flat Type fingers should be combined with each other. Ⓢ () for 6 mm Stroke

Gripper Body: 4 mm Stroke

Part Number		L 1 mm Increment	F 1 mm Increment	B	E	C	W	d	Applicable Gripper Body	Applicable Reference Pin Dia. P
AFYB AFYM AFYBH AFYMH	4-3 4-4 4-5 4-6 4-7 4-8 4-9	7-15 Ⓢ L-3≥F	4	10.5	3	3	5	2.2	ACHK4-N, ACHK4-D, ACHE4-N	3.00-4.00
			4-5	10	3.5		5			4.05-5.00
			4-6	9.5	4		7			5.05-6.00
			4-7	9	4.5		7			6.05-7.00
			4-8	8.5	5		10			7.05-8.00
			4-9	8	5.5	10	8.05-9.00			
			4-10	7.5	6	10	9.05-10.00			

Gripper Body: 6 mm Stroke

Part Number		L 1 mm Increment	F 1 mm Increment	B	E	C	W	d	Applicable Gripper Body	Applicable Reference Pin Dia. P
AFYB AFYM AFYBH AFYMH	6-3 6-4 6-5 6-6 6-7 6-8 6-9	7-33 Ⓢ L-3≥F	4	11.1	3	3	5	2.9	ACHK6-N, ACHK6-D, ACHE6-N	3.00-4.00
			4-5	10.6	3.5		7			4.05-5.00
			4-6	10.1	4		7			5.05-6.00
			4-7	9.6	4.5		10			6.05-7.00
			4-8	9.1	5		10			7.05-8.00
			4-9	8.6	5.5	10	8.05-9.00			
			4-10	8.1	6	10	9.05-10.00			

Part Number Example

Part Number: AFYM4-8 - L13 - F8

Application Example