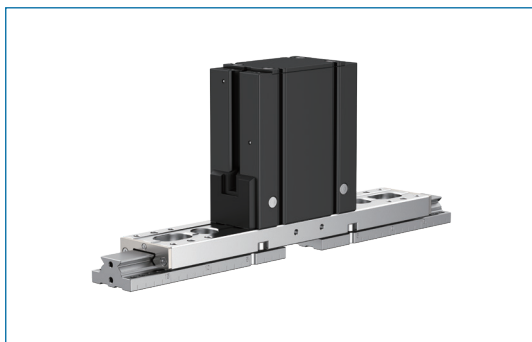


Pneumatic Gripper (Parallel Opening/Closing Type)

AHZ2K



Weight

Model	Weight
40D (Standard)	2.3kg
40D-L350-411(Extended Rail)	2.5kg
6340D(Standard)	2.9kg
6340D-L350-411(Extended Rail)	3.1kg

Specifications

Operating Pressure Range		0.4MPa~0.7MPa
Minimum Starting Pressure		0.3MPa
Withstand Pressure		1.5MPa
Maximum Gripping Force		1015N
Maximum Operating Frequency		60 times/min
Pressure Sensor	Power Supply Voltage	24V
	Current Consumption	20mA or less
	Accuracy	±1%F.S.
	Linearity	±0.2%F.S.
	Repeatability	±0.8%F.S.
	Temperature Characteristics	±2%F.S.@25°C
	Voltage Output	Output voltage: 1-5 V, Output impedance: 1 kΩ
	Protection Structure	IP65
Environmental Resistance	Operating Ambient Temperature	0~60°C
	Storage Temperature	-20~70°C
	Withstand Voltage	AC1000 V for 1 minute, between charged parts and housing
	Insulation Resistance	50 MΩ or more (at DC500 V megger), between charged parts and housing
Certifications, Standards		CE, UL certified

Model Selection

15A	AHZ2K	6340	C	C	T	M5	H	M9B	T	□	P
1	2	3	4	5	6	7	8	9	10	11	12
15A: Copper-free series 40A: Copper-free, strong corrosion-resistant series	Heavy-duty parallel gripper series	40: Ø40 cylinder bore 6340: 63*40 waist-shaped bore cylinder	C: Double-acting normally closed D: Double-acting	B: After unfolding, the slider and guide rail are the same length C: After unfolding, the slider's length exceeds that of the guide rail	F: Front air intake R: Side air intake T: Top air intake	M5: M5牙进气孔 01: Rc1/8牙进气孔	None: Powder metallurgy H: Machining version Shift fork	None: Non-magnetic switch M9B: Two-wire magnetic switch M9N: Three-wire magnetic switch	None: Standard model (cannot pass through cable chain) T: Cable can pass through cable chain	None: 2 s: 1 n: n (n is the quantity)	None: No built-in pressure sensor P: With built-in pressure sensor

拓展型号

15A	AHZ2K	6340	C	C	L350	411	T	M5	H	M9B	T	□	P
1	2	3	4	5	6	7	8	9	10	11	12	13	14
15A: Copper-free series 40A: Copper-free, strong corrosion-resistant series	Heavy-duty parallel gripper series	40: Ø40 cylinder bore 6340: 63*40 waist-shaped bore cylinder	C: Double-acting normally closed D: Double-acting	B: After unfolding, the slider and guide rail are the same length C: After unfolding, the slider's length exceeds that of the guide rail	L350: Guide rail, length 350mm	411: Slider unfolds Back length 411	F: Front air intake R: Side air intake T: Top air intake	M5: M5 toothed air intake port 01: Rc1/8 toothed air intake port					
None: Powder metallurgy H: Machining version Shift fork	None: Non-magnetic switch M9B: Two-wire magnetic switch M9N: Three-wire magnetic switch	None: Standard model (cannot pass through cable chain) T: Cable can pass through cable chain	None: 2 s: 1 n: n (n is the quantity)	None: No built-in pressure sensor P: With built-in pressure sensor									

Pneumatic Gripper (Parallel Opening/Closing Type)

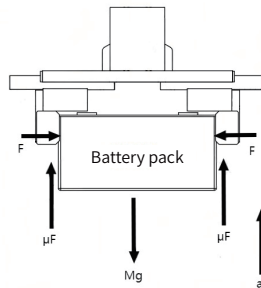
AHZ2K

GrippingForceSelection

► At theoretical pressure of 0.5 MPa:

Actuation Method	Model	Gripping Force N (Effective value per finger)		Gripping Force N (Effective value per finger)		Opening/closing stroke (both sides) mm
		Jaw Opening 0 mm		Jaw Opening 30 mm		
		outer diameter clamping force	Gas clamping force	outer diameter clamping force	Gas clamping force	
Double acting, normally closed	6340C	637	217	1015	396	30
Double Acting	40D	226	-	277	-	30

40D Node-energized gripping force



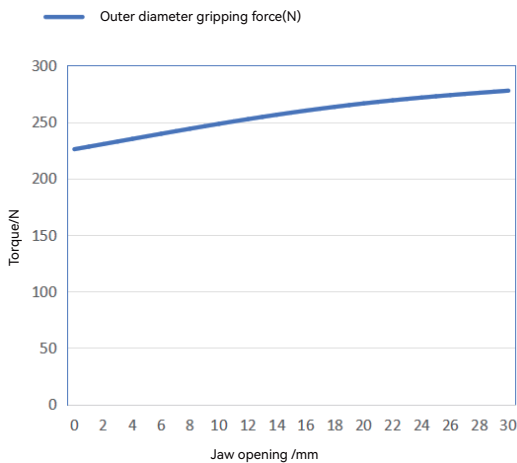
Recommended calculation formula:

F: Gripping force of a single finger
 μ : Coefficient of friction
m: Workpiece mass
g: Gravitational acceleration ($\approx 9.8 \text{ m/s}^2$)
mg: Workpiece weight

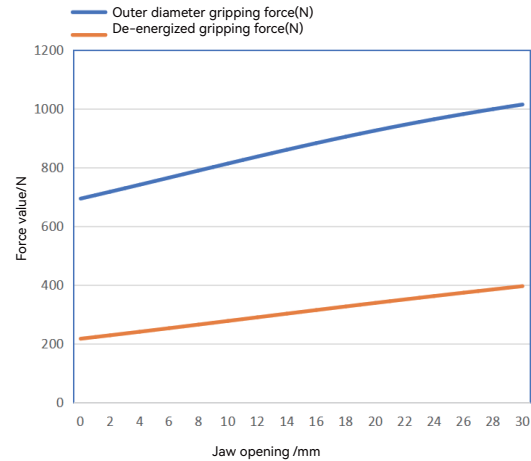
$$\frac{2 \times \mu F}{2} > mg(g+a)$$

Two fingers

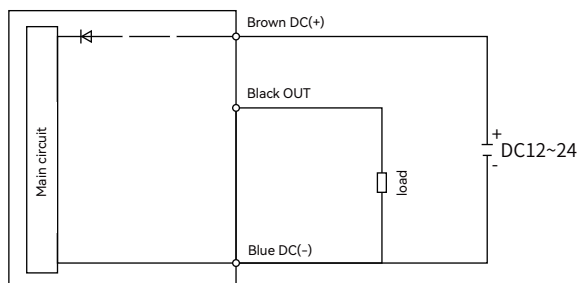
Curves showing the gripper opening and clamping force of the AHZ2K-40D at 0.5MPa.



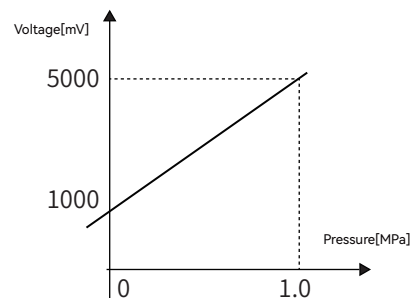
Curves showing the jaw opening and clamping force of AHZ2K-6340C at 0.5MPa.



Pressure sensor internal circuit and wiring



Pressure vs. voltage output curve



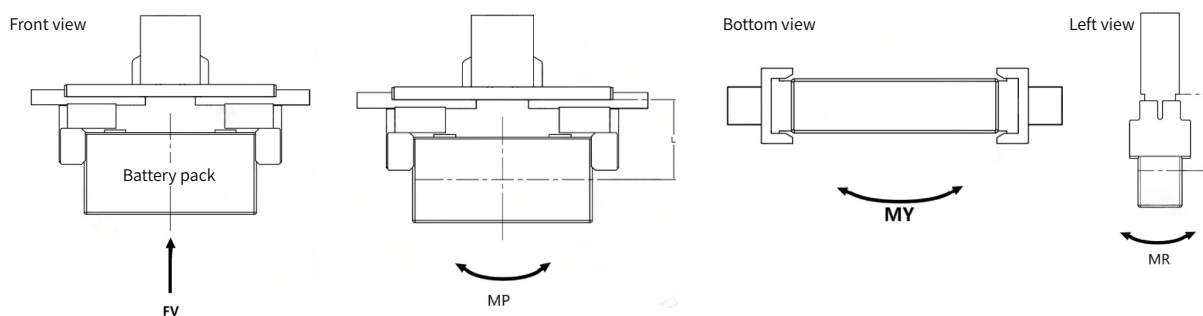
Pneumatic Gripper (Parallel Opening/Closing Type)

AHZ2K

Torqueselection

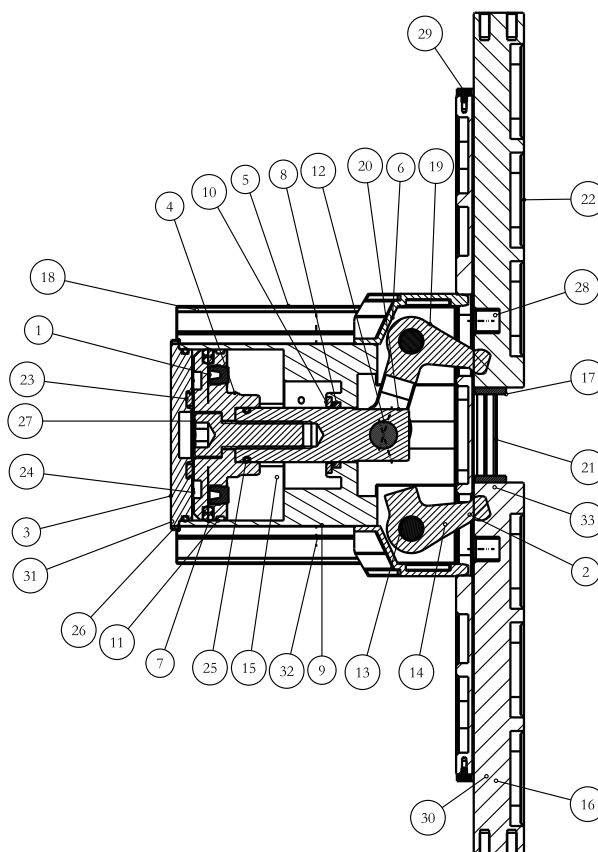
Model	Maximum allowable thrust Fv(N)	Maximum allowable moment		
		Mp(N·m)	My (N·m)	Mr (N·m)
15A-AHZ2K-6340C	2567	29.43	29.43	58.86
15A-AHZ2K-40D-C	2567	29.43	29.43	58.86
15A-AHZ2K-63D-B	2646	30.33	30.33	60.66

[Note] The loads and moments in the table represent static values.



ProductStructure

1	Cushion Pad	18	Steel Ball
2	Cylindrical Pin	19	Yoke
3	Rear Cover	20	Piston Rod
4	Piston	21	Guide Rail
5	Cylinder Body	22	Slider
6	Protective Cover	23	Cushion Pad
7	Piston Seal	24	Strong Magnet
8	Shaft Seal	25	O-Ring
9	Filter Cotton	26	O-Ring
10	Clamping Plate	27	Screw
11	Wear Ring	28	Screw
12	Cylindrical Pin	29	Screw
13	Pin Shaft	30	Screw
14	Screw	31	Screw
15	Cylindrical Spring	32	O-Ring
16	Guide Rail Stopper	31	Needle Roller
17	Slider Stopper		

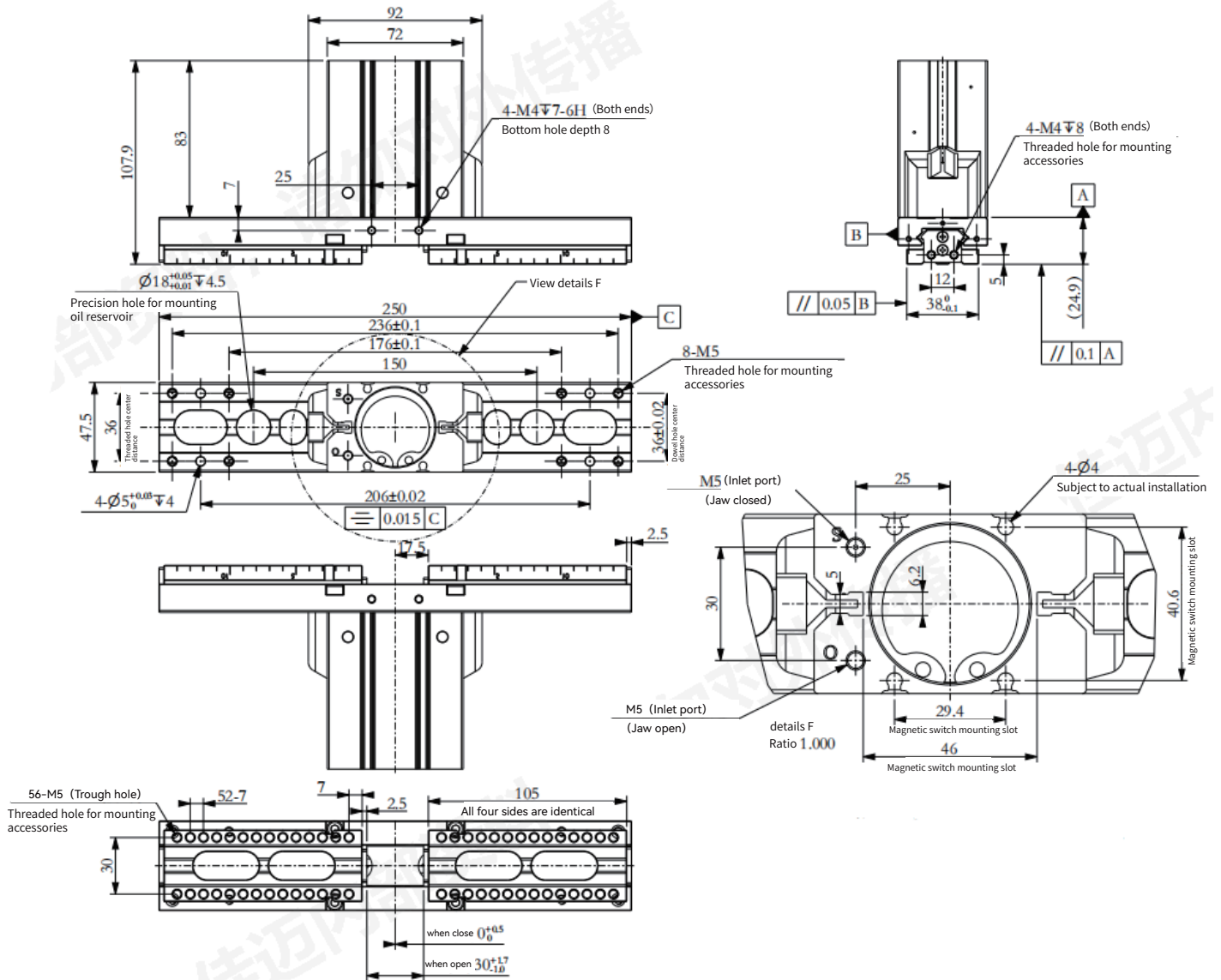


Pneumatic Gripper (Parallel Opening/Closing Type)

AHZ2K

Dimensional Drawings(mm)

► AHZ2K-40D-B

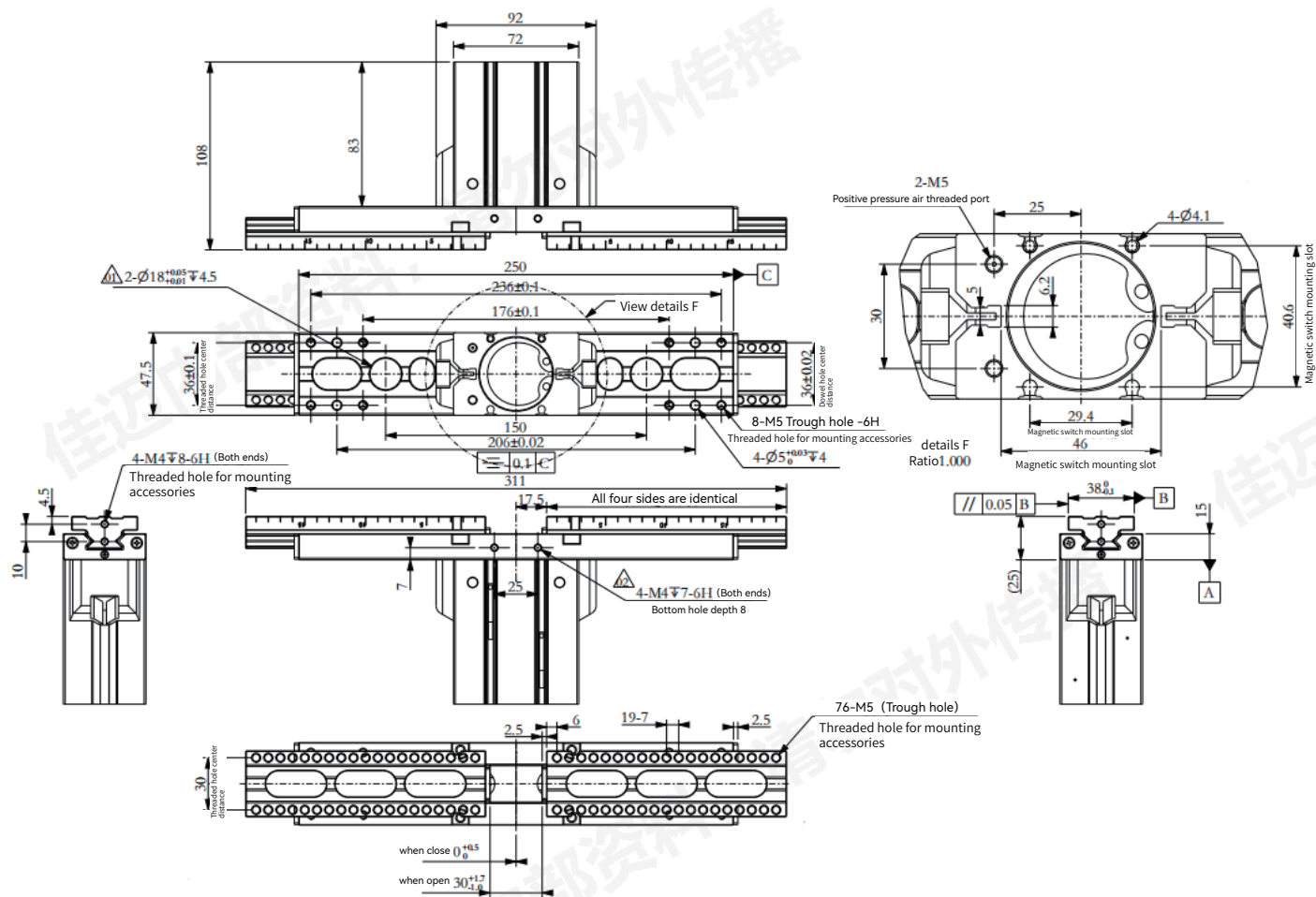


Pneumatic Gripper (Parallel Opening/Closing Type)

AHZ2K

Dimensional Drawings (mm)

▶ AHZ2K-40D-C



AHZ2K

▶ AHZ2K-6340C-C

