

High Grip Force and 180° Opening Angle Hand

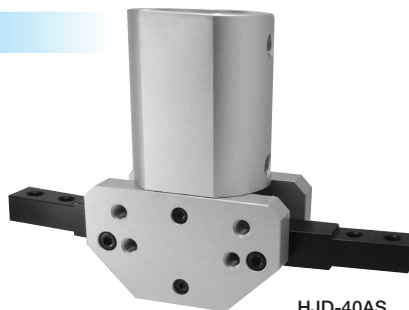
Key Features

■ High grip force via toggle mechanism

180° opening angle allows gripper to just slide workpiece to right or left, and which does not require up and down motion when workpiece is moving left ⇔ right

■ Piston guide rail

Vertical piston guide rail prevents jaw motion from rattling by receiving external loads, and which improves repeatability and rigidity. The guide also prevents piston from receiving direct load, and which offers higher durability for the gripper



HJD-40AS

How To Order

Standard ----- **HJD-32AS**

Option ----- **HJD - 32AS - ET3 S2**

Size	Sensor				Quantity	
Symbol	Symbol	Name	Symbol	Name	Symbol	Name
32AS	ET3	^{*1} Non-Contact 3-Lead	E25	^{*2} Contact 2-Lead	S1	1 Sensor
40AS	ET3L	^{*2} Non-Contact 3-Lead	E25L	^{*2} Contact 2-Lead	S2	2 Sensors
50AS1	ET2	^{*1} Non-Contact 2-Lead	E40	^{*2} Non-Contact 3-Lead		
63AS1	ET2L	^{*2} Non-Contact 2-Lead	E40L	^{*2} Non-Contact 3-Lead		
	E24	^{*2} Contact 2-Lead	E41	^{*2} Non-Contact 2-Lead		
	E24L	^{*2} Contact 2-Lead	E41L	^{*2} Non-Contact 2-Lead		

^{*1} HUD-32AS and 40AS require
to mount this switch

^{*2} Available only for HUD-50A

^{*1} HJD-32AS and 40AS requires bracket to mount this switch

^{*2} Available only for HJD-50AS1 & 63AS1

For sensor detail ▶277P

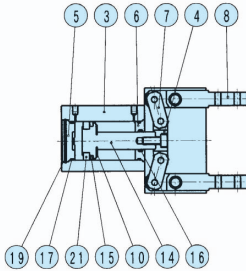
Specification

Model	HJD-32AS For Layout Drawing ▶175P	HJD-40AS For Layout Drawing ▶175P	HJD-50AS1 For Layout Drawing ▶176P	HJD-63AS1 For Layout Drawing ▶176P
Working Pressure	Pneumatic: 0.3 to 0.7MPa			
Lubrication	Not Required or Turbine Oil Class 1 (ISOVG32)			
Ambient Temperature (°C)	5 to 60			
Opening Angle	—4 to 184°			
Cylinder Diameter (mm)	dia.32	dia.40	dia.50	dia.63
Rod Diameter (mm)	dia.14	dia.16	dia.20	dia.20
Internal Volume [Reciprocation] (cm ³ /time)	46.0	88.7	180.8	331.5
Repeatability (mm)	±0.1			
Weight (kg)	1.03	1.58	2.67	3.97

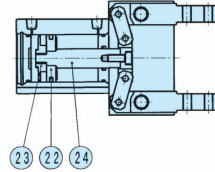
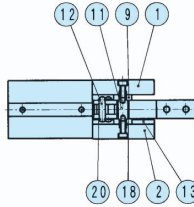
HJD-32AS/40AS/50AS1/63AS1

Internal Structure / Parts & Seals

■HJD-32AS



■HJD-40AS to 63AS1



■Parts List

No.	Name	Material	No.	Name	Material	No.	Name	Material
1	Body A	Aluminum	9	Collar	Carbon Steel	17	Cylinder Seal	
2	Body B	Aluminum	10	Cushion		18	DU Dry Bearing	
3	Cylinder	Aluminum	11	Fulcrum Shaft	Carbon Steel	19	C-Type Snap Ring	Stainless Steel
4	Operation Plate	Carbon Steel	12	Operating Shaft	Carbon Steel	20	E-Type Snap Ring	
5	Cylinder Cover	Aluminum	13	Guide Rail	Carbon Steel	21	Magnet	
6	Rod Cover	Aluminum	14	Piston	Aluminum & Stainless Steel	22	Piston A	Aluminum
7	Link	Carbon Steel	15	Piston Seal		23	Piston B	Stainless Steel
8	Master(Base) Jaw	Carbon Steel	16	Rod Seal		24	Piston Rod	Stainless Steel

■Seals List

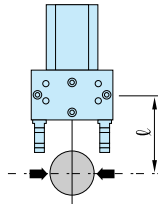
No.	HJD-32AS	HJD-40AS	HJD-50AS1	HJD-63AS1
15	PSD-32	PSD-40	PSD-50	PSD-63
16	MYA-14	MYA-16	MYA-20	MYA-20
17	S-29	S-36	S-46	S-60

Performance Data

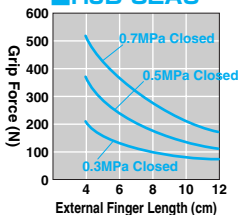
■Grip Force

The graph shows grip force in closing with effective external finger lengths ℓ from gripper cover surface under different air pressure (MPa)

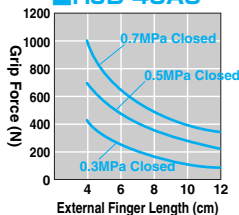
Closed (⇒) —————



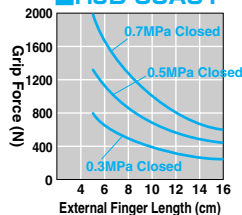
■HJD-32AS



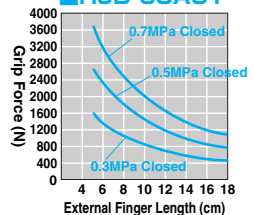
■HJD-40AS



■HJD-50AS1



■HJD-63AS1

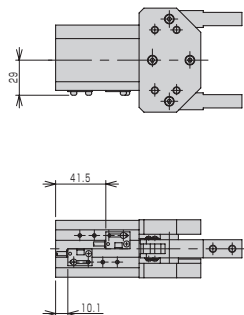
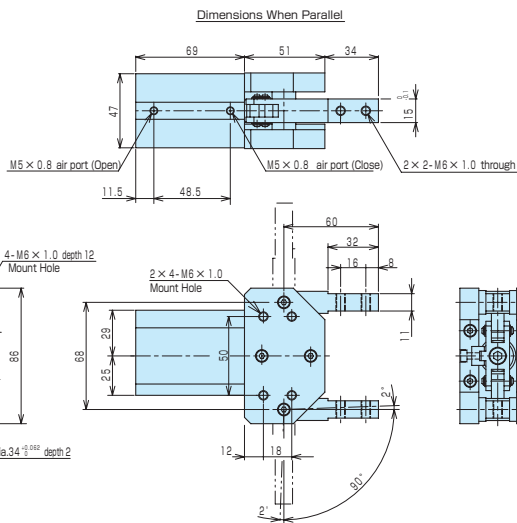


Layout Drawing

■HJD-32AS (Optimal Grip Force 100N to 350N)

HJD-32AS Standard

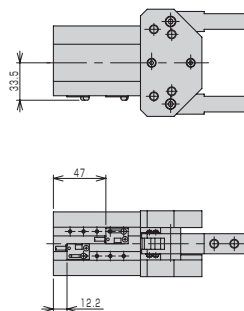
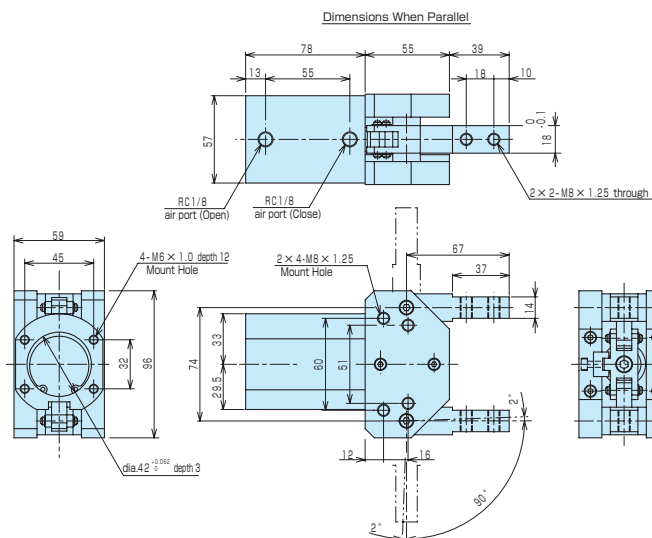
HJD-32AS-E□□□



■HJD-40AS (Optimal Grip Force 100N to 650N)

HJD-40AS Standard

HJD-40AS-E□□□

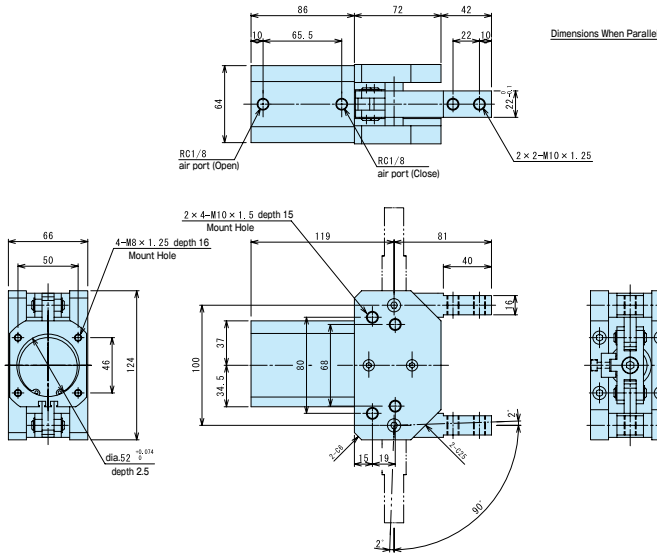


HJD-32AS/40AS/50AS1/63AS1

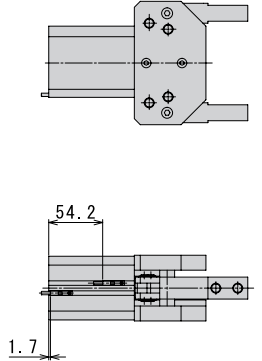
 For CAD data, please go to **▶518P**

■HJD-50AS1 (Optimal Grip Force 300N to 1200N)

HJD-50AS1 Standard



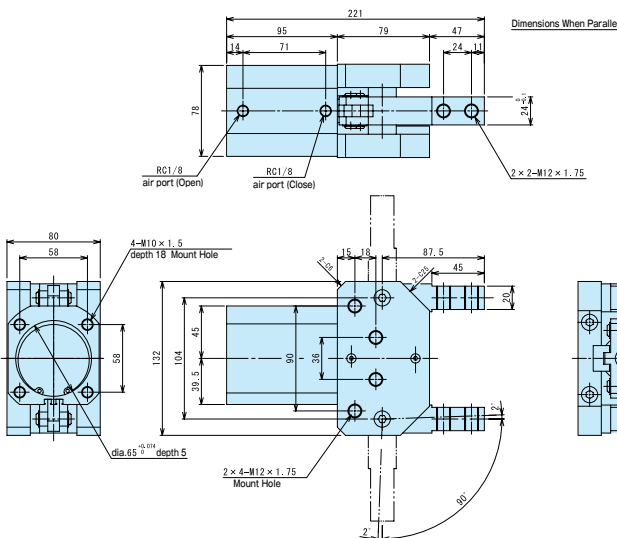
HJD-50AS1-E□S□



Hand
(2-Jaw)

■HJD-63AS1 (Optimal Grip Force 500N to 2500N)

HJD-63AS1 Standard



HJD-63AS1-E□S□

