

Technical Catalog

Clamps *Series AKUD*



GHPC
Tecnologia em Produtos Pneumáticos

Clamp Cylinder-Double Arm Type AKUD 40 - 63 Series

Features

1. Designed with a crank connecting rod mechanism, a large load-bearing capacity.
2. The clamping position is self-locked in case of air supply connection.
3. Installed at the front, back, left, or right.
4. Integrated with sensors.
5. Variety of clamp arm models are available to meet different customer needs.



Standard Specifications

Bore	mm	40	63
Action		Double Acting Type	
Used Fluid		Compressed Air (Filtered Through A Filter $\leq 25 \mu\text{m}$)	
Maximum Operating Pressure	MPa (kgf/cm ²)	0.6 (6.1)	
Operating Temperature Range	°C	-10 ~ 60 (Non-freezing State)	
Lubrication ^①		Not Required	
Clamp Force ^②	N	550	1000
Maximum Holding Torque	N	1100	2000
Minimum Use Frequency		1-Second Clamping Or 1-Second Opening	
Range Opening Angle		15°, 30°, 45°, 60°, 75°, 90°	
Weight	kg	3.2	5.8
Port	G	1/4	

Note: ① If lubrication is required, please use turbine No.1 oil ISO VG32; ② Refers to the clamping torque at 0.6MPa.

Order Code

AKUD	V	63	—	Z01	W12	—	90		
Series	Installation Method ^① of Clamp Arm		Bore=	Clamp Arm Type ^②		Sensor ^③		Opening ^④ Angle	
	Blank	External Installation	40	Z00	Without Clamp Arm	W00	Without Sensor	15	2x15°
	V	Internal Installation	63	R01	Right Side Type	W12	M12 Inductive Sensor PNP	30	2x30°
				Z01	Intermediate Type	W12N	M12 Inductive Sensor NPN	45	2x45°
				L01	Left Side Type	W12T	Anti-strong Magnetic M12 Inductive Sensor PNP	60	2x60°
								75	2x75°
								90	2x90°

Note: ① Refer to the definition of clamp arm installation method.

② See the Ext. Dimensions diagram for other types and dimensions of clamp arms.

③ See the AKUS/H/K accessory series for the sensor parameters.

④ Standard angle: 2x90°, special angles: 2x15°, 2x30°, 2x45°, 2x60°, 2x75°.

The maximum opening angle of clamp arm No. 2 of AKUD40 is 60°

The installation method of the clamp arm 02 is generally external installation.

Order Example

A clamp cylinder- power type with the diameter: 63mm; opening angle: 2x90°;

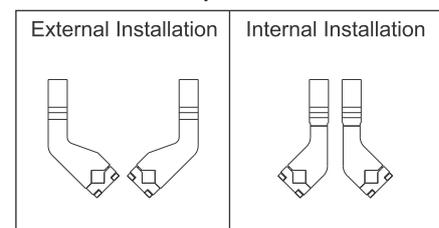
clamp arm: intermediate type;

sensor: solenoid PNP sensor.

Correct order code: AKUD63-Z01W12-90

Note: If you need to order this series of sensors or clamps separately, please contact us.

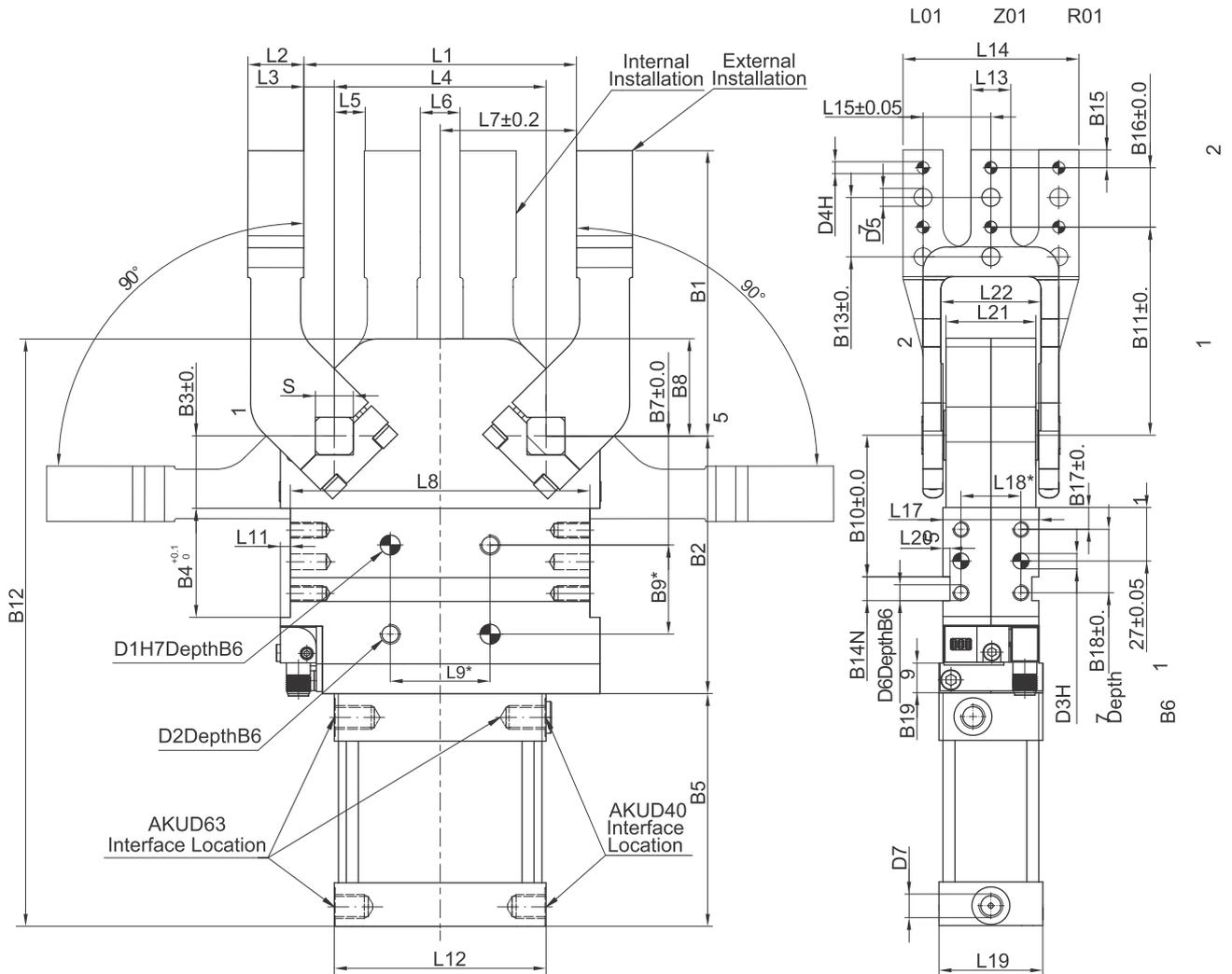
● Definition of Clamp Arm Installation Method



Clamp Cylinder-Double Arm Type
AKUD40 - 63 Series

Ext. Dimensions (mm)

• AKUD40/63-Z01 Solenoid Sensor



Bore	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16
40	110	97	38	55	100	11	50	38	25	58.5	84	235	20	8	6	20
63	144	130	36.5	55	120	12	55	49	45	71.5	105	299	30	12	9	30

Bore	B17	B18	B19	D1	D2	D3	D4	D5	D6	D7	L1	L2	L3	L4	L5	L6
40	11	32	—	6	M6	8	6	7	M8	G1/4	93	19	10	73	10	15
63	11	32	15	10	M10	8	6	9	M8	G1/4	136	28	15	106	15	20

Bore	L7	L8	L9	L11	L12	L13	L14	L15	L17	L18	L19	L20	L21	L22	S
40	46.5	107	35	5	70	15	55	20	47	30	36	3	34	36	12
63	68	150	50	5	106	20	88	34	48	30	52	3.5	45	50	19

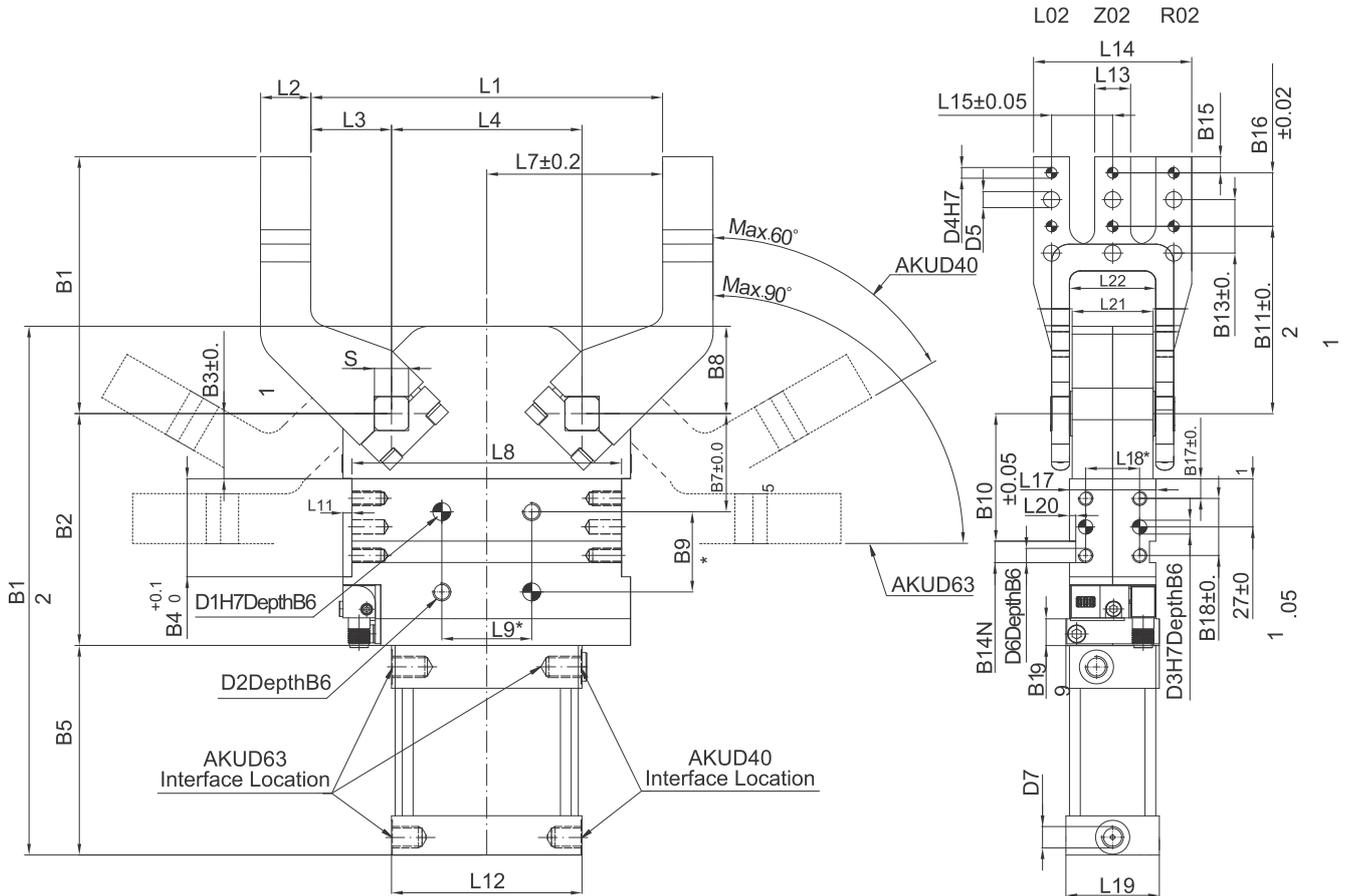
Note: ① *The tolerance of the pin hole is ± 0.02 , and the tolerance of the threaded hole is ± 0.1 ; a throttle valve must be equipped during installation, which is not within the scope of supply;

② The pitch of M6 is 1.0; M8 pitch is 1.25; the pitch of M10 is 1.5 in the table.

Clamp Cylinder-Double Arm Type
AKUD40 - 63 Series

Ext. Dimensions (mm)

• AKUD 40/63-Z02 Solenoid Sensor



Bore	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16
40	110	97	38	55	100	11	50	38	25	58.5	84	235	20	8	6	20
63	144	130	36.5	55	120	12	55	49	45	71.5	105	299	30	12	9	30

Bore	B17	B18	B19	D1	D2	D3	D4	D5	D6	D7	L1	L2	L3	L4	L5	L6
40	11	32	—	6	M6	8	6	7	M8	G1/4	163	19	45	73	—	—
63	11	32	15	10	M10	8	6	9	M8	G1/4	196	28	45	106	—	—

Bore	L7	L8	L9	L11	L12	L13	L14	L15	L17	L18	L19	L20	L21	L22	S
40	81.5	107	35	5	70	15	55	20	47	30	36	3	34	36	12
63	98	150	50	5	106	20	88	34	48	30	52	3.5	45	50	19

Note: ① *The tolerance of the pin hole is ± 0.02 , and the tolerance of the threaded hole is ± 0.1 ; a throttle valve must be equipped during installation, which is not within the scope of supply;

② The pitch of M6 is 1.0; M8 pitch is 1.25; the pitch of M10 is 1.5 in the table.



Precauções

- A GHPC do Brasil não se responsabiliza pelo uso indevido, mau uso, do equipamento.
- A utilização de máquinas e equipamentos pneumáticos deve ser feita apenas por profissionais qualificados.
- Não exceder as especificações descritas no catálogo, afim de evitar danos à integridade física do produto e/ou operador.
- Garantir o total cuidado no manuseio e instalação do produto afim de evitar choques e/ou quedas à peça. Caso venha acontecer, mesmo que aparentemente intacto, poderá ter causado danos à sua função.
- Garantir total limpeza dos tubos e conexões antes de serem conectados ao produto.