

Technical Catalog

Clamps *Series AKUK*



Clamp Cylinder-Manual Power Type AKUK 50 - 63 Series

Features

1. Designed crank connecting rod mechanism, a large load-bearing capacity.
2. Interchanged with the pneumatic clamp.
3. Clamping position self-locking.
4. Installed at the front, back, left or right.
5. Integrated with sensors.
6. Variety of clamp arm models available to meet different customer needs.



Standard Specifications

Bore	mm	50	63
Clamping Torque	N·m	160	380
Maximum Holding Torque	N·m	800	1500
Minimum Use Frequency		1-Second Clamping Or 1-Second Opening	
Fixed Opening Angle		45°, 60°, 75°, 90°, 105°, 120°	
Weight ^①	kg	5.6	7.7

Note: ① Including the standard clamping clamp arm weight (Z01)

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Order Code

AKUK	V	63	—	Z01	W12
Series	Installation Method of Clamp Arm^①	Bore mm	—	Clamp Arm Type^②	Sensor^③
	Blank Horizontal Installation V Vertical Installation	50 Ø50 63 Ø63		Z00 Without Clamp Arm R01 Right Side Type Z01 Intermediate Type L01 Left Side Type	W00 Without Sensor W12 M12 Inductive Sensor PNP W12N M12 Inductive Sensor NPN W12T Anti-strong Magnetic M12 Inductive Sensor PNP W05 Pneumatic Control Sensor
ER	—	105			
Option^④		Opening Angle^⑤			
Blank ER EL	None Right Mounted Stopper Left Mounted Stopper	45 45° 60 60° 75 75° 90 90° 105 105° 120 120°			

- Note: ① Refer to the definition of clamp arm installation method.
 ② Other types of clamp arms can be found in the clamp arm configuration table.
 See the AKUS/H/K accessory series for clamp arm dimensions.
 ③ See the AKUS/H/K accessory series for the sensor parameters.
 ④ Applicable to the angle of 30°/45°/60°/75°/90°/105°/120°/135°.
 ⑤ When the clamp arm is installed vertically, the maximum opening angle is 105°.
 When the clamp arm is installed horizontally, the maximum opening angle is 120°.

Order Example

A clamp cylinder-manual power type with the specification: 63mm; opening angle: 45 degrees; clamp arm: standard clamp arm; pin hole \square 6; intermediate type; horizontal installation; sensor: PNP solenoid sensor.

Correct order code: AKUK63-Z01W12-45

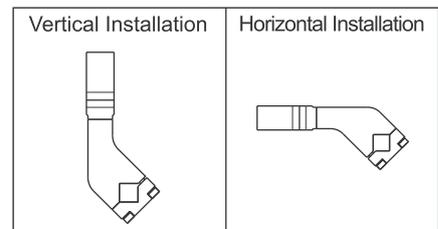
Note: If you need to order this series of sensors or clamps separately, please contact us.

The left installation type handle is provided by default before delivery out of the factory.

If you need to place an order on the right installation type, please indicate your requirements or adjust it on side. The handle rod is shipped separately.

Customers need to weld it on site.

● Definition of Clamp Arm Installation Method



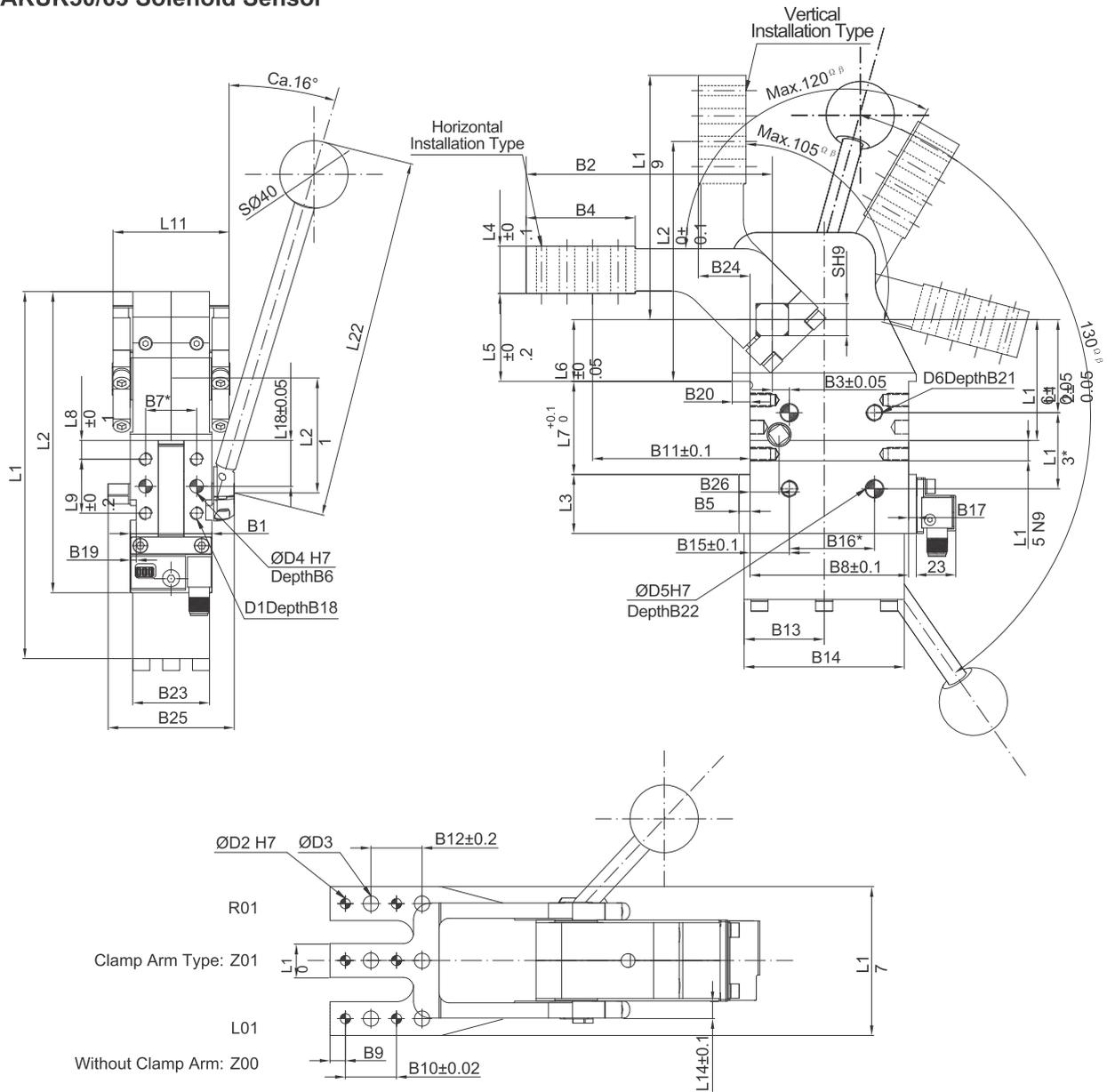
Clamp Arm Configuration Table

Bore	Standard Clamp Arm (Pin Hole Ø 6)			Clamp Arm Offset 45 (Pin Hole Ø 6)			Clamp Arm Offset 45 (Pin Hole Ø 8)			Clamp Arm Offset 45 (Pin Hole Ø 8)		
	Right Side Type	Intermediate Type	Left Side Type	Right Side Type	Intermediate Type	Left Side Type	Right Side Type	Intermediate Type	Left Side Type	Right Side Type	Intermediate Type	Left Side Type
50												
63	R01	Z01	L01	R02	Z02	L02	R03	Z03	L03	R04	Z04	L04

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Ext. Dimensions [mm]

• AKUK50/63 Solenoid Sensor



Bore	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18
50	48	144	10	64	6.5	8	30	93	9	30	92	30	47	94	23	50	4.5	12
63	54	144	10	64	7.5	10	30	93	9	30	92	30	53	106	23	50	7.5	12

Bore	B19	B20	B21	B22	B23	B24	B25	B26	D1	D2	D3	D4	D5	D6	L1	L2	L3	L4	L5
50	3.5	10.5	12	12	45	30	74	17	M8	6	9	8	10	M10	217	178	35	28	51.5
63	3.5	12	12	12	52	30	80	17	M8	6	9	8	10	M10	231	185	35	28	51.5

Bore	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20	L21	L22	S
50	36.5	55	11	32	20	68	55	45	10	12	71.5	88	27	144	141.5	68	200	19
63	36.5	55	11	32	20	78	55	45	12	12	71.5	94	27	144	141.5	70.5	200	22

- Note: ① *The tolerance of the pin hole is ± 0.02 , and the tolerance of the threaded hole is ± 0.1 ;
 ② The handle is provided to the customer for on-site installation. Both sides of the cylinder can be installed, and the welding position of the handle is determined by the customer.
 ③ The pitch of M8 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.