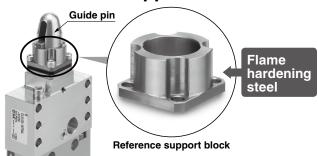
Responses to reduction of spare parts, short lead times, and a drastic reduction of special orders

Pin Plate Cylinder (Reference support block machinable type)

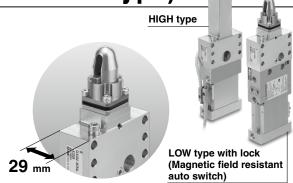
Guide pin is separated from the reference support block.



Reference support block can be machined by the customer. (The block can be changed to a desired shape.)

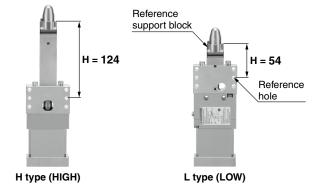
Note) After machining (or even without machining), use the reference support block after it has been flame hardened. However, do not perform quenching.

For machining and treatment, consult with SMC.

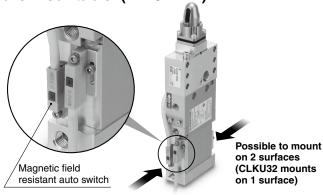


- **■**Ø32 plate cylinder type
- ■Slim body: 29 mm in width
- Model with lock mechanism, which prevents workpiece drops during emergency stops, can be selected.

The height from the reference hole to the surface of the reference support block can be selected from 2 types "HIGH" or "LOW".

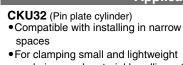


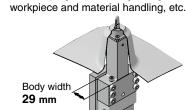
Magnetic field resistant auto switches are mountable. (D-P3DW□)



Equipped with shims (3 mm) as standard.







Application Examples

CLKU32 (Pin plate cylinder/With lock)Unclamp direction locking

• Drop prevention for workpiece during



Achieves reduction of spare parts, short lead times, and a drastic reduction of special orders according to features 1, 2, and 3.

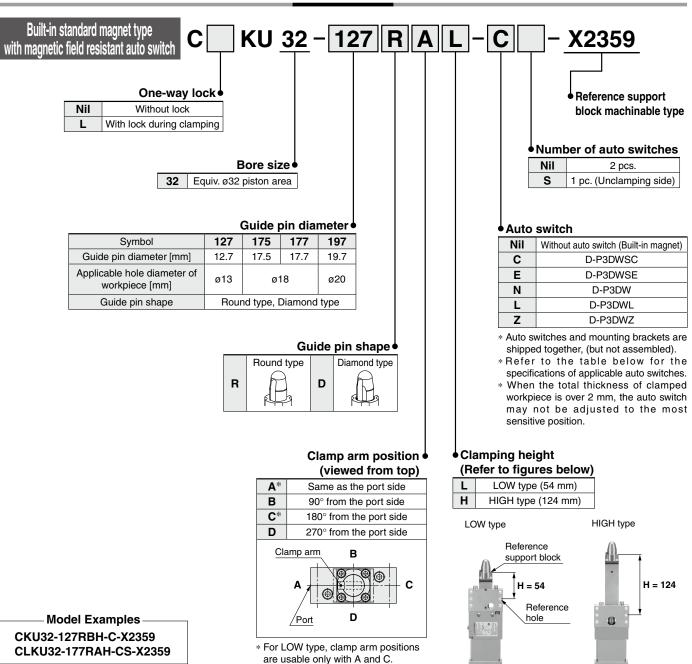
C(L)KU32-X2359



Pin Plate Cylinder

C(L)KU32-X2359

How to Order



Applicable Auto Switches/Refer to the Best Pneumatics No. 3 for further information on auto switches.

Туре	Auto switch model	Applicable magnetic field	Electrical entry	Indicator light	Wiring (Pin no. in use)	Load voltage	Lead wire length	Applicable load
	D-P3DWSC		Pre-wired		2-wire (3-4)		0.3 m	Dalas
Solid state auto switch	D-P3DWSE	AC magnetic field (Single-phase AC welding magnetic field)	connector	2-color indication	2-wire (1-4)	24 VDC	0.3 111	
	D-P3DW		I		2-wire		0.5 m	Relay, PLC Note)
	D-P3DWL						3 m	FLCe.e,
	D-P3DWZ						5 m	

Note) PLC: Programmable Logic Controller

Pin Plate Cylinder C(L)KU32-X2359



Basic Specifications

Model	C(L)KU32				
Action	Double	e acting			
Bore size (mm)	32 eq.	uivalent			
Cylinder stroke/Clamp stroke (mm)	12.5 (Without workpiece)/10				
Fluid	Air				
Mimimum operating pressure	CKU□: 0.1 MPa	CLKU□: 0.15 MPa*			
Maximum operating pressure	0.7	MPa			
Ambient and fluid temperature	-10 to 60°C	(No freezing)			
Cushion	No	one			
Lubrication	Non	-lube			
Piston speed (Clamp speed)	50 to 150 mm/sec				
Port size (Cylinder port)	Rc1/8				

 $[\]ast$ Minimum operating pressure is 0.2 MPa when cylinder part and locking part use the same piping.

Lock Specifications

Model	CLKU32
Locking action	Spring locking (Exhaust locking)
Unlocking pressure	0.2 MPa
Lock starting pressure	0.05 MPa
Locking direction	Unclamp direction locking
Port size (Lock release port)	Rc1/8
Holding force (Maximum static load)	402 N

Clamping Force

							(N	
Model	Guide pin diameter	Operating pressure (MPa)						
iviodei	(mm)	0.2	0.3	0.4	0.5	0.6	0.7	
C(L)KU32	ø12.7 to ø19.7	130	195	260	325	390	455	

- Note 1) It takes approximately 0.3 seconds for the cylinder to operate to generate clamping force from an unclamping state (when no speed controller is installed). Design circuit taking into consideration the time before the clamping force is generated.
- Note 2) Determine the clamping force according to the strength of the workpiece. It can be damaged if the clamping force is too large.
- Note 3) Guide pins and clamp arms are consumable items. Please prepare spare parts in case they are damaged.

Replacement Parts

(C(L)KU, LOW type/HIGH type common)

Guide Pin Order No.

Gui	de pin	Part no.		
Diameter (mm)	Shape	rait 110.		
12.7	Round type	CKU32-45-530ZL		
	Diamond type	CKU32-45-531ZL		
47.5	Round type	CKU32-45-694ZL		
17.5	Diamond type	CKU32-45-695ZL		
47.7	Round type	CKU32-45-532ZL		
17.7	Diamond type	CKU32-45-533ZL		
19.7	Round type	CKU32-45-534ZL		
	Diamond type	CKU32-45-535ZL		

Clamp Arm Order No.

<u> </u>							
Gui	de pin	Part no.					
Diameter (mm)	Shape	Part no.					
12.7	D /	CKU32-54-530ZL					
17.5	Round type/ Diamond type						
17.7	common	CKU32-54-532ZL					
19.7	0011111011						

Reference Support Block Order No.

Gui	de pin	Down no		
Diameter (mm)	Shape	Part no.		
12.7	D /	CKU32-36-530ZL		
17.5	Round type/ Diamond type	CKU32-36-532ZL		
17.7	common	UNU32-30-332ZL		
19.7	COMMINION	CKU32-36-534ZL		

Weight

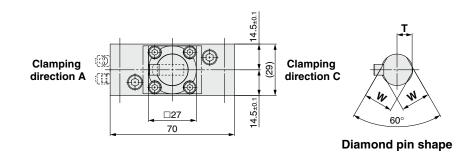
					(g)			
Gı	uide pin	Model						
Diameter	Shape	CKU32	-X2359	CLKU3	2-X2359			
(mm)	Snape	LOW type	HIGH type	LOW type	HIGH type			
12.7	Round type	790	960	1000	1170			
12.7	Diamond type	790	960	1000	1170			
17.5	Round type				1220			
17.5	Diamond type	840		1050				
17.7	Round type		1010					
17.7	Diamond type		1010					
19.7	Round type							
19.7	Diamond type							

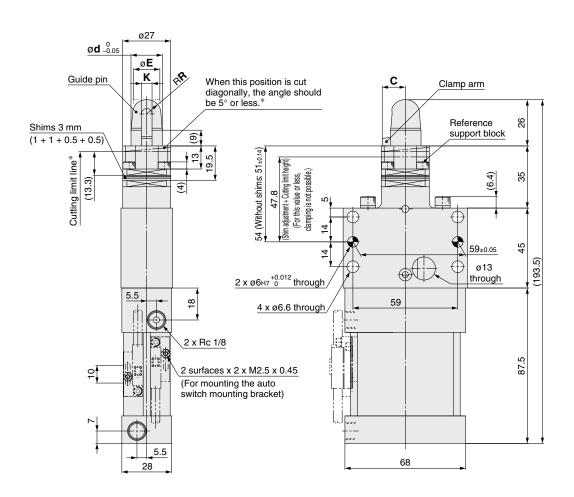


C(L)KU32-X2359

Dimensions

CKU32 (Clamping height LOW type)

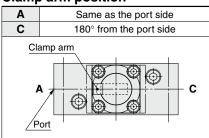




* The customer should regulate the dimensional accuracy associated with machining. If the cutting limit line is exceeded because of overmachining, clamping failures, etc. may occur and this is not covered by the warranty.

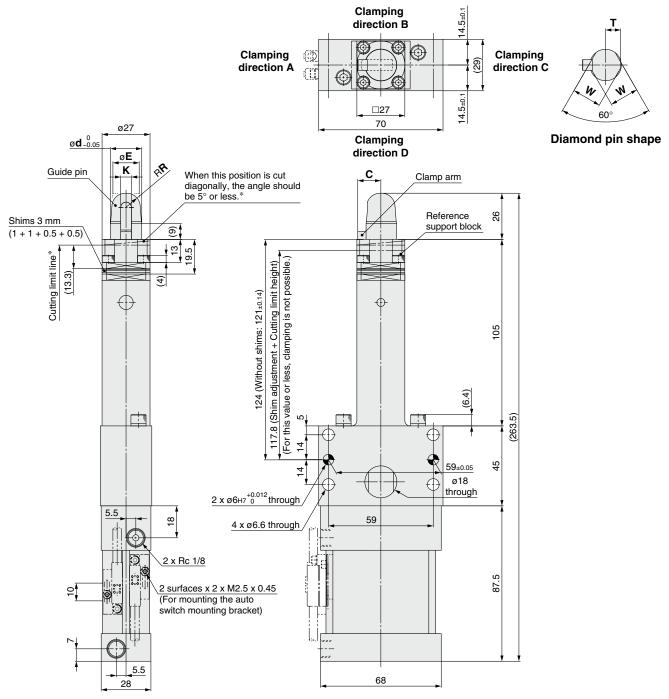
Pin diameter	С	d	E	K	R	Т	W
12.7	8.5	12.7	10.4	5	5	6	11.6
17.5		17.5	14.8			8.5	16.4
17.7	13	17.7	14.0	6	7.5	0.5	10.4
19.7		19.7	15			9.8	16.8

Clamp arm position



Dimensions

CKU32 (Clamping height HIGH type)



* The customer should regulate the dimensional accuracy associated with machining. If the cutting limit line is exceeded because of overmachining, clamping failures, etc. may occur and this is not covered by the warranty.

Pin diameter	С	d	E	K	R	Т	W
12.7	8.5	12.7	10.4	5	5	6	11.6
17.5		17.5	14.8			8.5	16.4
17.7	13	17.7	14.0	6	7.5	0.5	10.4
19.7		19.7	15			9.8	16.8

Clamp arm position

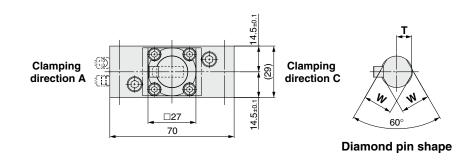
Claim	ailii positioli						
Α	Same as the port side	Same as the port side					
В	90° from the port side						
С	180° from the port side						
D	270° from the port side						
Cla	amp arm B	С					

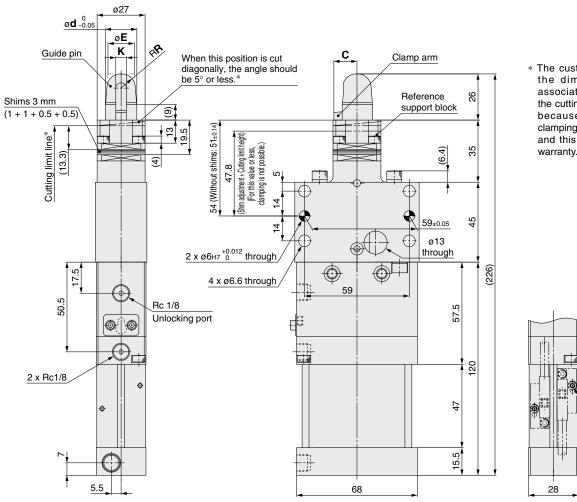


C(L)KU32-X2359

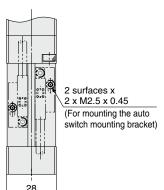
Dimensions

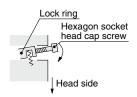
CLKU32 (Clamping height LOW type)





* The customer should regulate the dimensional accuracy associated with machining. If the cutting limit line is exceeded because of over-machining, clamping failures, etc. may occur and this is not covered by the warranty.



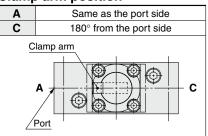


Manually unlocking

- 1) Remove the dustproof cover.
- Screw the hexagon socket head cap screw (M3 x 15 L or more) into the lock ring shown on the left and raise the lock ring toward the head side.
- The lock ring and piston rod form a right angle, and the lock is released.

Pin diameter	С	d	E	K	R	Т	W
12.7	8.5	12.7	10.4	5	5	6	11.6
17.5		17.5	14.8			8.5	16.4
17.7	13	17.7	14.0	6	7.5	0.5	10.4
19.7		19.7	15			9.8	16.8

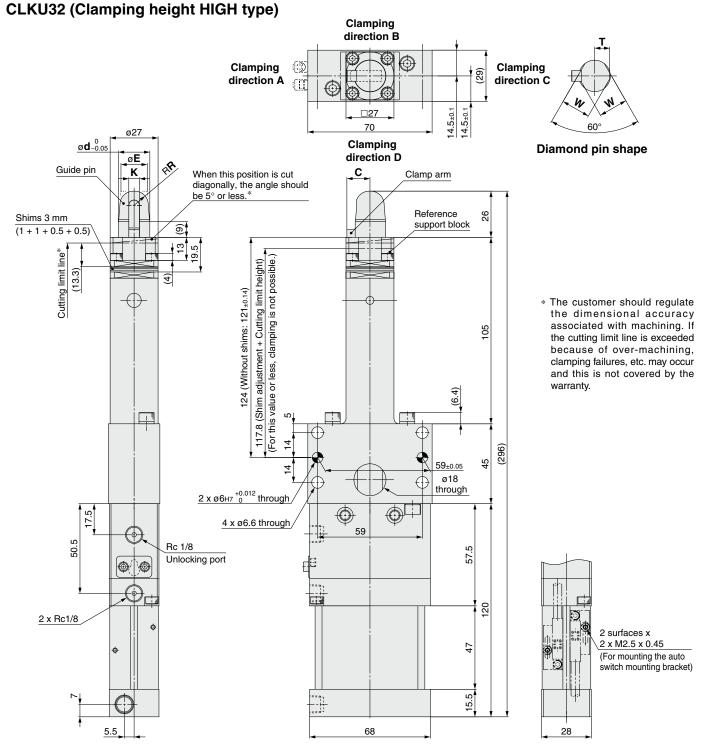
Clamp arm position





Pin Plate Cylinder C(L)KU32-X2359

Dimensions





Manually unlocking

- 1) Remove the dustproof cover.
- 2) Screw the hexagon socket head cap screw (M3 x 15 L or more) into the lock ring shown on the left and raise the lock ring toward the head side.
- 3) The lock ring and piston rod form a right angle, and the lock is released.

Pin diameter	С	d	E	K	R	Т	W
12.7	8.5	12.7	10.4	5	5	6	11.6
17.5		17.5	14.8			8.5	16.4
17.7	13	17.7	14.0	6	7.5	0.5	10.4
19.7		19.7	15			9.8	16.8



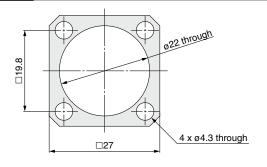
Clamp arm position					
Α	Same as the port side				
В	90° from the port side				
С	180° from the port side				
D	270° from the port side				
Clamp arm B C					



C(L)KU32-X2359 Option/Auto Switch Mounting

Dimensions

Shim

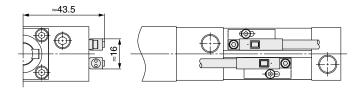


•Shims can be mounted up to 3 mm.

Description	Plate thickness (mm)	Part no.
Shim A	1	CKQ32-36A746MN
Shim B	0.5	CKQ32-36B746MN

Auto Switch Mounting Height

D-P3DW□



Auto Switch Mounting Bracket Part No./Mounting Method

Applicable auto	D DODW/					
switch	D-P3DW□					
Auto switch mounting bracket part no.	CKU32-42-530ZL-R					
Auto switch mounting bracket fitting parts lineup/Weight	Auto switch mounting bracket Weight: 4 g					
	Surfaces with auto switch mounting slot					
Auto switch mounting surfaces	Without lock With lock					
Mounting of auto switch	1. The hexagon socket head cap screw attached to the auto switch is not required. Turn to loosen and remove. * This procedure is only for auto switches that are ordered separately. Hexagon socket head cap screws are removed when auto switches are shipped together with cylinder. 2. Fix the auto switch and the auto switch mounting bracket with the hexagon socket head cap screw (M2.5 x 9 L) shipped together with the auto switch mounting bracket. 3. Check the detecting position of the auto switch by sliding it along the cylinder tube rib, before fixing the auto switch on the cylinder tube threaded portion by inserting the hexagon socket head cap screw (M2.5 x 9 L) into the long hole of the auto switch mounting bracket. Note) The tightening torque for the hexagon socket head cap screw (M2.5 x 9 L) is 0.2 to 0.3 N·m. Hexagon socket head cap screw with auto switch (M2.5 x 9 L) Long hole of auto switch mounting bracket Cylinder tube rib Cylinder tube rib					

SMC Corporation

Akihabara UDX 15F

4-14-1, Sotokanda, Chiyoda-ku, Tokyo 101-0021, JAPAN Phone: 03-5207-8249 Fax: 03-5298-5362

http://www.smcworld.com

© 2013 SMC Corporation All Rights Reserved