

LCM
 LCR
 LCG
 LCW
 LCX
 STM
 STG
 STS/STL
 STR2
 UCA2
 ULK*
 JSK/M2
 JSG
 USC3/USC4
 USSD
 UFCD
 USC
 UB
 JSB3
 LMB
 LML
 HCM
 HCA
 LBC
 CAC4
 UCAC2
 CAC-N
 UCAC-N
 RCS2
 RCC2
 PCC
 SHC
 MCP
 GLC
 MFC
 BBS
 RRC
 GRC
 RV3*
 NHS
 HRL
 LN
 Hand
Chuk
 MecHnd/Chuk
 ShkAbs
 FJ
 FK
 SpdContr
 Ending
 CKL2
 CKLG2
CKL2-HC
 CKH2
 CKLB2
 CKG
 CK
 CKA
 CKS
 CKS-F
 CKF
 CKJ
 CHC

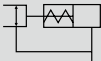


Position locking powerful chuck

CKL2-* -HC Series

● Operating stroke length: 8, 10, 12, 16, 20 mm

Single acting (normally closed)



Specifications

Item	CKL2-32CS-HC	CKL2-40CS-HC	CKL2-50CS-HC	CKL2-63CS-HC	CKL2-80CS-HC
Bore size mm	ø32	ø40	ø50	ø63	ø80
Working fluid	Compressed air				
Max. working pressure MPa	0.7 (≈100 psi, 7 bar)				
Min. working pressure MPa	0.4 (≈58 psi, 4 bar)				
Ambient temperature °C	5 (41°F) to 60 (140°F)				
Port size	M5				Rc1/8
Operating stroke length mm	8	10	12	16	20
Rod diameter mm	ø10	ø12	ø14	ø16	ø16
Volumetric capacity (reciprocating) cm ³	7.7	15.6	28.3	60.3	118.2
Repeatability mm	±0.01				
Weight kg	0.42	0.60	0.82	1.66	3.20
Lubrication	Not required (use turbine oil class 1 ISO VG32 if necessary for lubrication)				

- *1 : Use open port only, since spring clamp method is used.
 Do not supply compressed air from the closed port. It may cause damage.
- *2 : Do not plug closed port.
- *3 : When using in a poor environment, contaminants inhaled from the closed port may cause air leakage. In that case, use a filter to prevent contaminants from entering.
- *4 : Since gripping power differs depending on clamp position (open end, intermediate position or closed end) and clamp distance (jaw length), consider safety factors carefully for selection.

Switch specifications

Item	Proximity 2-wire	Proximity 3-wire
	T2H/V	T3H/V
Applications	Dedicated for programmable controller	For programmable controller, relay
Output method	—	NPN output
Power supply voltage	—	10 to 28 VDC
Load voltage/current	10 to 30 VDC, 5 to 20 mA (*1)	30 VDC or less, 100 mA or less
Indicator lamp	LED (Lit when ON)	
Leakage current	1 mA or less	10 μA or less
Weight	1 m:18 g 3 m:49 g 5 m:80 g	

- *1 : The above max. load current is 20 mA at 25°C. The current is lower than 20 mA if the operating ambient temperature around the switch is higher than 25°C. (5 to 10 mA at 60°C)
- *2 : Refer to Ending Page 1 for detailed switch specifications and dimensions.

How to order

Without switch (built-in magnet for switch)

CKL2 - **32CS** - **HC** - **Y1**

With switch (built-in magnet for switch)

CKL2 - **32CS** - **HC** - **Y1** - **T2H** - **R**

A Size

B Option

C Switch model No.

D Switch quantity

Code		Description					
A Size							
32CS							
40CS							
50CS							
63CS							
80CS							
B Option							
Y1		With attachment Material: S45C					
Y2		With attachment Material: MC nylon					
C Switch model No.							
Axial lead wire	Radial lead wire	Contact Proximity	Voltage		Display	Lead wire	
			AC	DC			
T2H*	T2V*				●	1-color	2-wire
T3H*	T3V*				●	display	3-wire
* Lead wire length							
Blank	1 m (standard)						
3	3 m (option)						
5	5 m (option)						
D Switch quantity							
R	1 on open side						
H	1 on closed side						
D	2						

⚠ Precautions for model No. selection

*1 : Attachment is commonly used for inner and outer chuck.

*2 : Refer to pages 1868 and 1869 for the dimensions and compatible model of the attachment.

When ordered as an option, three are attached at shipment.

[Example of model No.]

CKL2-32CS-HC-Y1-T2H-R

- A** Size : 32CS
- B** Option : With attachment Material: S45C
- C** Switch model No.: Proximity T2H switch, lead wire 1 m
- D** Switch quantity : 1 on open side

How to order switch

SW - **T2H**

Switch model No.
(Item C above)

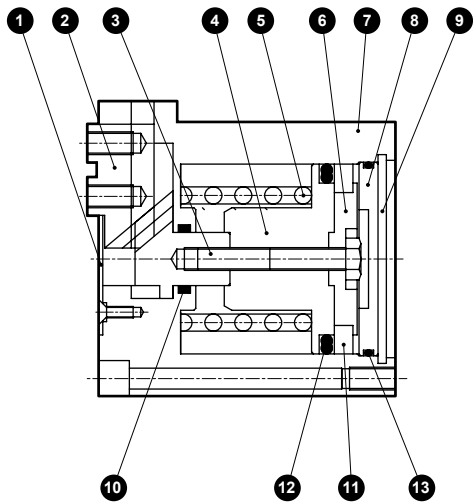
LCM
LCR
LCG
LCW
LCX
STM
STG
STS/STL
STR2
UCA2
ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD
USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
RCC2
PCC
SHC
MCP
GLC
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RRC
GRC
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Ending

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UCA2
ULK*
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JSG
JSC3/JSC4
USSD
UFCD
USC
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HCM
HCA
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CAC4
UCAC2
CAC-N
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Ending

Internal structure and parts list

● CKL2-32CS to 80CS-HC



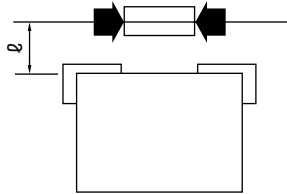
Cannot be disassembled

Parts list

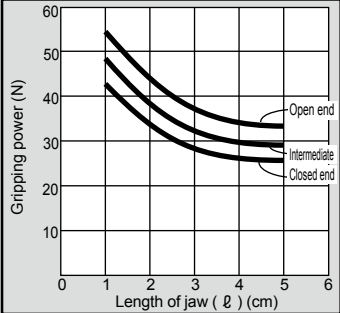
No.	Part name	Material	Remarks	No.	Part name	Material	Remarks
1	Center guard	Stainless steel		7	Body	Aluminum alloy	
2	Finger	Carbon steel		8	Cylinder guard	Aluminum alloy	
3	Piston A	32CS: Stainless steel 40CS to 80CS: Carbon steel		9	Snap ring	Stainless steel	Steel (40, 80CS)
4	Piston B	Aluminum alloy		10	Rod packing	Nitrile rubber	
5	Spring	Stainless steel		11	Magnet		
6	Piston C	Aluminum alloy		12	Piston packing	Nitrile rubber	
				13	Cylinder gasket	Nitrile rubber	

Gripping power performance data

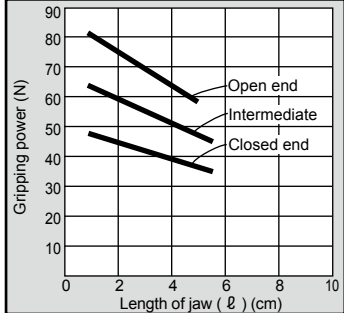
- Gripping power represents the thrust (per one finger) in the arrow direction shown in the figure.
- The gripping power in the closing direction with jaw length ℓ of hand is shown.
 - Closed direction () (shown with continuous line)



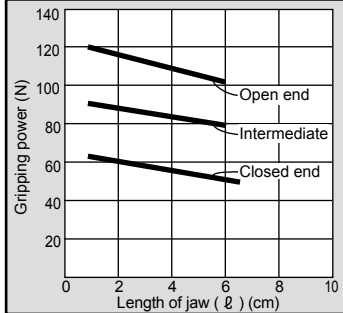
● CKL2-32CS-HC



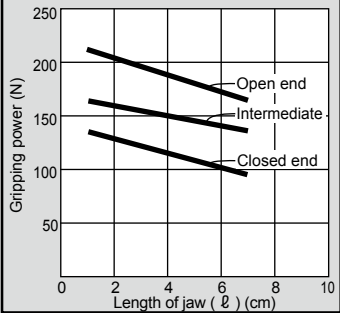
● CKL2-40CS-HC



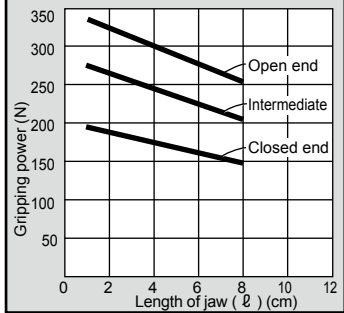
● CKL2-50CS-HC



● CKL2-63CS-HC



● CKL2-80CS-HC



(Note) When making a selection, read the precautions for design and selection on page 1872.

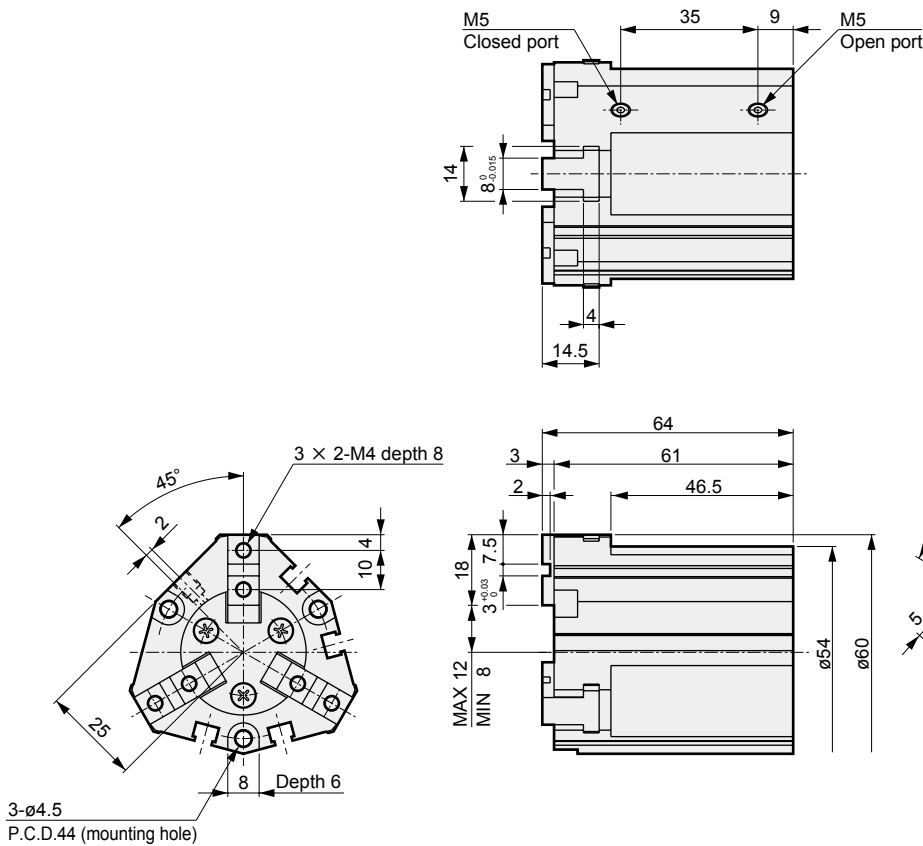
CKL2-* -HC Series

Position locking powerful chuck

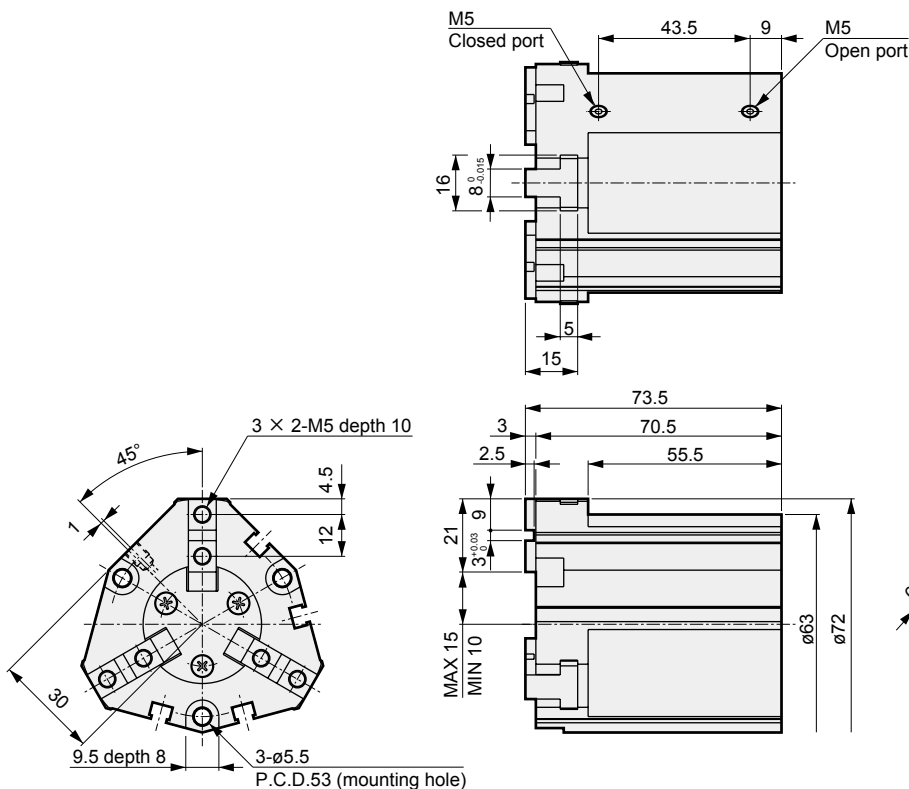
Dimensions



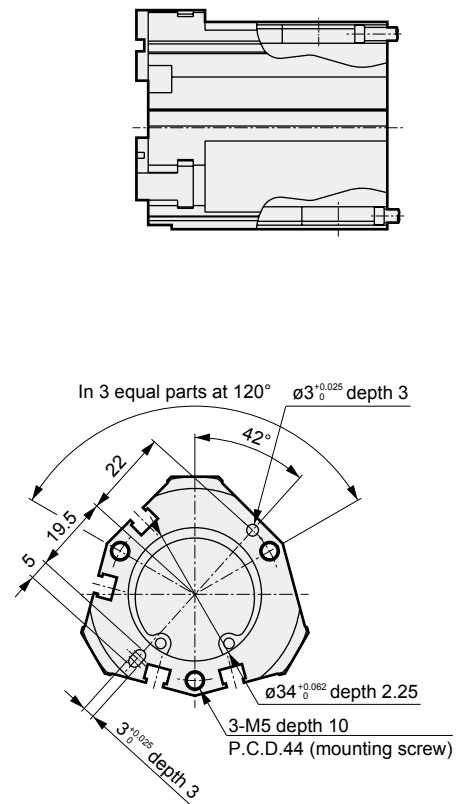
● CKL2-32CS-HC standard



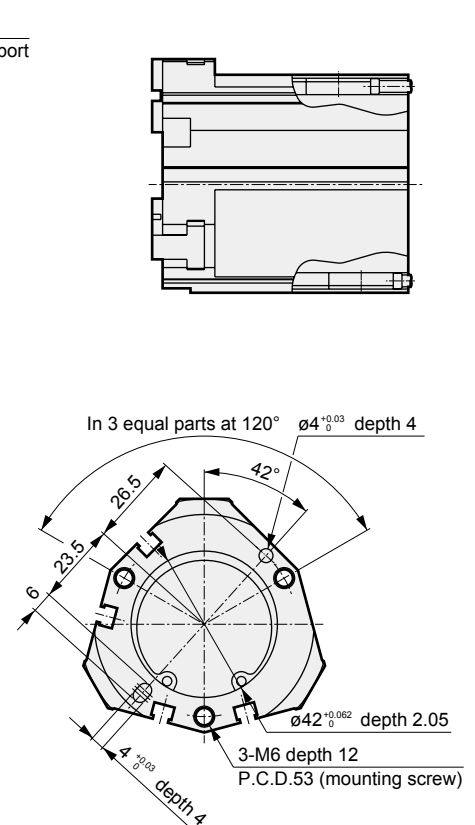
● CKL2-40CS-HC standard



● With switch



● With switch



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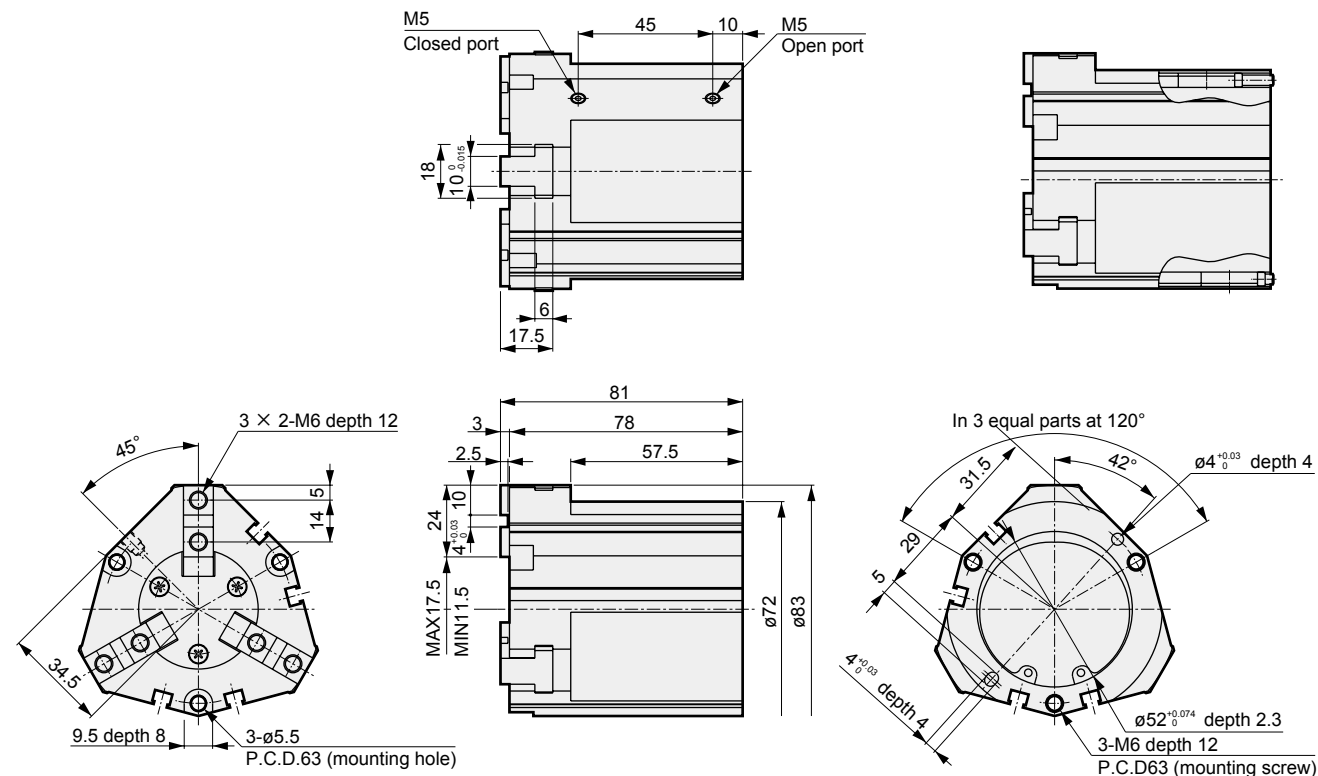
CKL2-* -HC Series

Dimensions



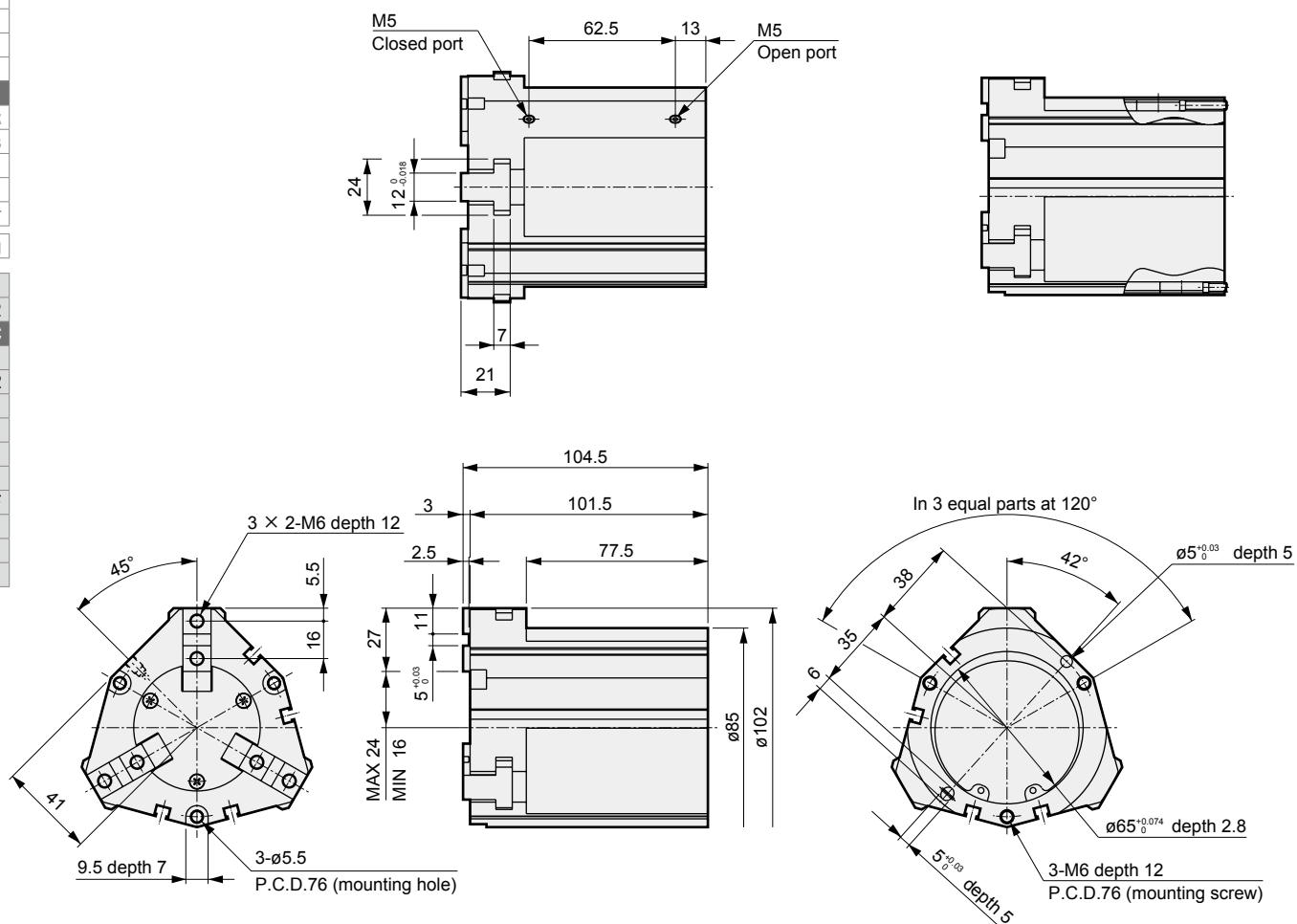
● CKL2-50CS-HC standard

● With switch



● CKL2-63CS-HC standard

● With switch



CKL2-* -HC Series

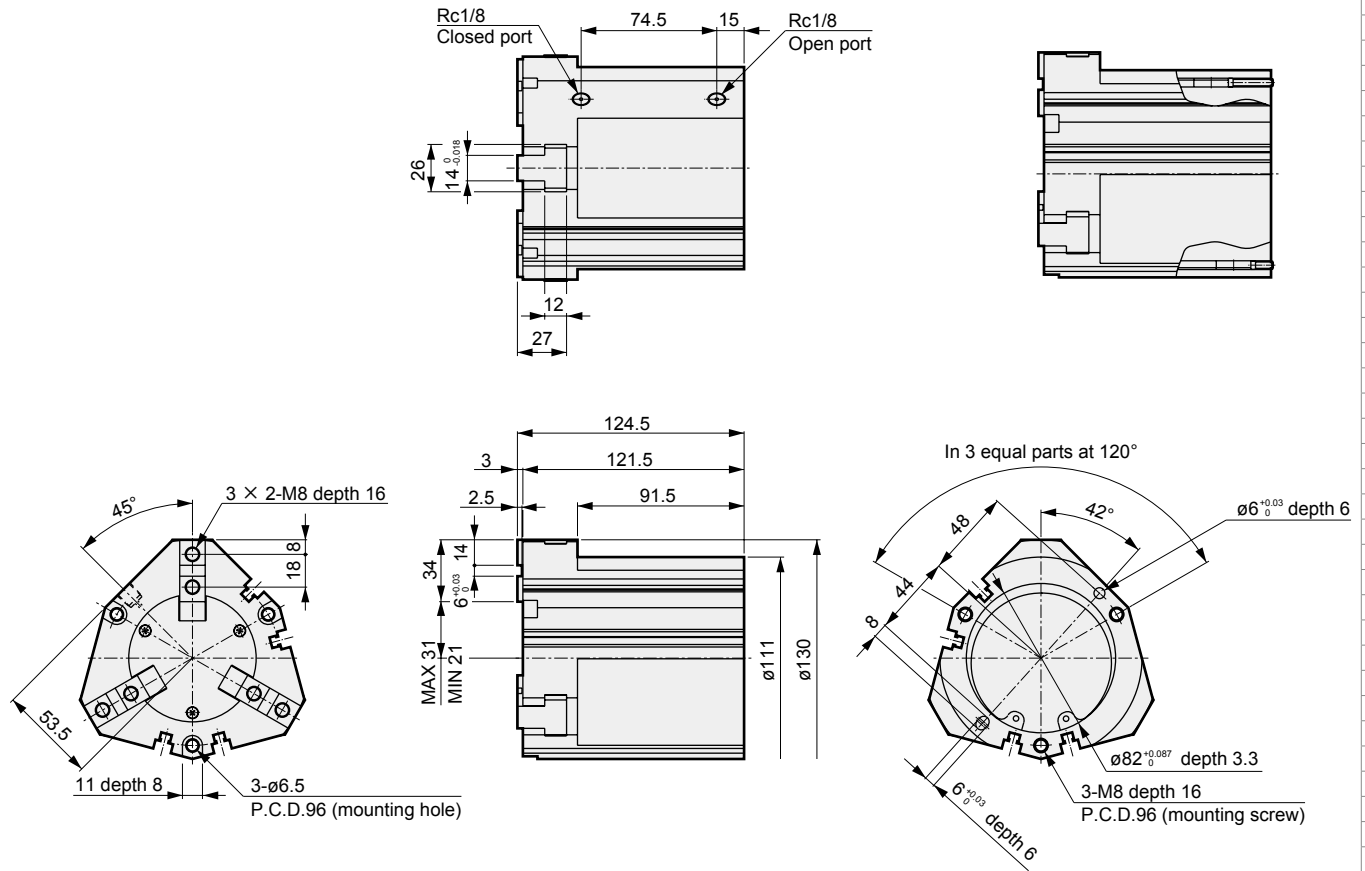
Position locking powerful chuck

Dimensions



● CKL2-80CS-HC standard

● With switch



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