

## Thin Compact Design, Light-Weight and High Grip Force with Cost in Mind



CKL-50AS

### Key Features

- High grip force and high accuracy via direct drive mechanism
- High rigidity via long piston guide
- Oil-resistant sensors available (option)
- Switch slots available on 2 different surfaces of the body for sensing jaw position (open or closed)
- Hollow body type (option)

CKL			CKLG	CKH	CKLF
J2	L1	Q			
20AS-100AS	50AS-100AS	32AS-80AS	20AS-100AS	50AS-100AS	50AS-100AS

### How To Order

Standard ----- **CKL-20AS**

Option ----- **CKL - 50AS - L1 - ET3S2 - Z** ----- Long stroke type CKL-50AS with 2 of ET3 non-contact reed switch and customer special specification

Model		Size		Stroke & Jaw Quantity		Sensor, Quantity		Option	
Symbol	Name	Symbol		Symbol	Name	Symbol	Name	Symbol	Name
CKL	3-Jaw	16AS	80AS	No Symbol	Normal	ET3	Non-Contact 3-Lead	E24L	Contact 2-Lead
CKL-□□-J2	2-Jaw	20AS	100AS	J2	2-Jaw	ET3L	Non-Contact 3-Lead	E25	Contact 2-Lead
CKL-□□-L1	Long Stroke Type	25AS	160AS	L1	Long Stroke Type	ET2	Non-Contact 2-Lead	E25L	Contact 2-Lead
CKL-□□-Q	Anti-Drop Type	32AS		Q	Anti-Drop Type	ET2L	Non-Contact 2-Lead	E40	Non-Contact 3-Lead
CKLG	Rubber Cover	40AS				E18	Non-Contact 3-Lead	E40L	Non-Contact 3-Lead
CKH	High Grip Force Type	50AS				E18L	Non-Contact 3-Lead	E41	Non-Contact 3-Lead
CKLF	Hollow Type	63AS				E19	Non-Contact 2-Lead	E41L	Non-Contact 2-Lead
						E19L	Non-Contact 2-Lead	S1	1 Sensor
						E24	Contact 2-Lead	S2	2 Sensors

For option detail ▶ **36P**

For sensor detail ▶ **277P**

\*1 Please contact us for more detail \*3 Except 16AS, 20AS, 25AS, and L1 type  
 \*2 Except 16AS, 160AS, L1 type, and CKLF \*4 Available only for 16AS

Note) Please consider the followings when ordering CKL-□□-Q

- Since spring assists clamping, please use only open-side air port. Please do not use close-side air port since that may cause breakage of the gripper
- Do not add stoppers to close-side air port
- In harsh environments, debris or particulate may enter from close-side air port, resulting in air leakage. In that case, please use a filter to prevent them from getting inside
- Please select a model that has more than enough capability to secure clamping since the grip force varies by length of external finger and also clamp position on the finger

### Specification

Model	CKL-16AS <small>For Layout Drawing Z212</small>	CKL-20AS <small>For Layout Drawing Z213</small>	CKL-25AS <small>For Layout Drawing Z215</small>	CKL-32AS CKL-32AS-Q <small>For Layout Drawing Z216</small>	CKL-40AS CKL-40AS-Q <small>For Layout Drawing Z218</small>	CKL-50AS CKL-50AS-Q <small>For Layout Drawing Z219</small>	CKL-63AS CKL-63AS-Q <small>For Layout Drawing Z220</small>	CKL-80AS CKL-80AS-Q <small>For Layout Drawing Z225</small>	CKL-100AS <small>For Layout Drawing Z228</small>	CKL-160AS <small>For Layout Drawing Z229</small>
Working Pressure	Pneumatic: 0.3 to 0.7MPa *									
Lubrication	Not Required or Turbine Oil Class 1 (ISOVG32)									
Ambient Temperature (°C)	5 to 60									
Total Jaw Stroke (mm)	5	5	6	8	10	12	16	20	23	50
Cylinder Diameter (mm)	dia.16	dia.20	dia.25	dia.32	dia.40	dia.50	dia.63	dia.80	dia.100	dia.160
Rod Diameter (mm)	dia.6	dia.6	dia.8	dia.10	dia.12	dia.14	dia.16	dia.16	dia.20	dia.34
Internal Volume (Reciprocation) (cm <sup>3</sup> /time)	1.2	1.8	3.3	7.7	15.6	28.3	60.3	118.2	215.5	937.0
Repeatability (mm)	±0.01									
Weight (kg)	0.07	0.12	0.19	0.24	0.36	0.54	0.97	1.85	3.14	7.94

\*Please use compressed air (0.4 to 0.7MPa) for CKL-□□AS-Q

Chuck (233-Jaw)