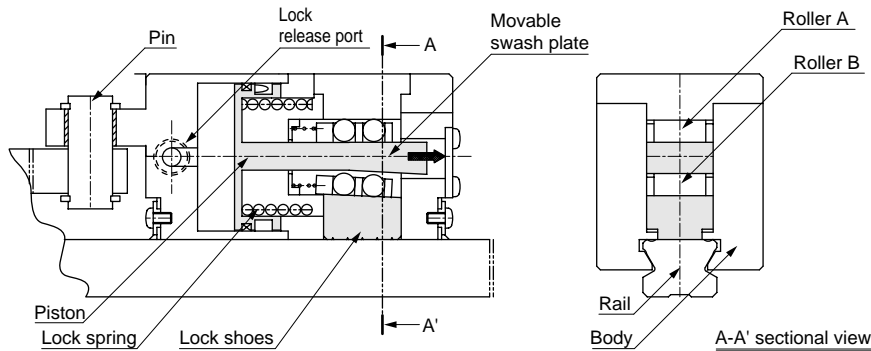


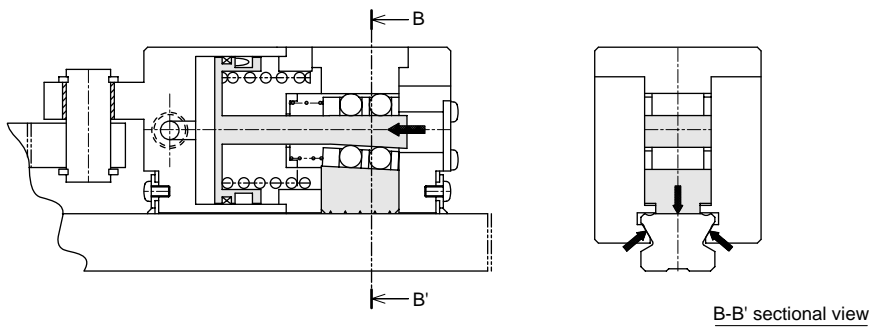
Operational principle

● When unlocked



When the lock release port is pressurized with air, the piston and the tapered movable swash plate connected to the piston move in the direction of the arrow, releasing the contact of roller B and the movable swash plate. The pressurizing force of the lock shoes against the rail is eased, and the lock is released.

● When locked

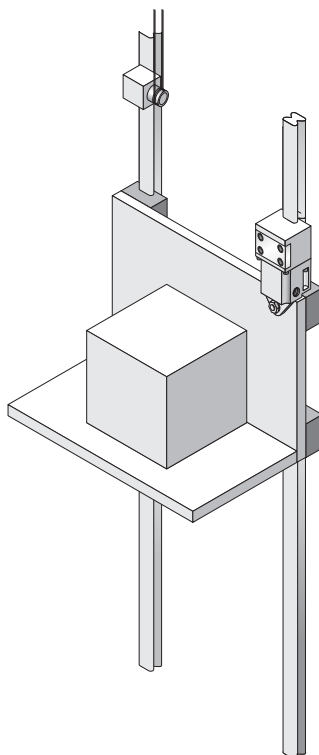


When air is exhausted from the lock release port, the piston and the tapered movable swash plate connected to the piston are moved in the direction of the arrow by the lock spring. The amplifying effect of the taper is passed through roller B so that the lock shoes press the rail with force.

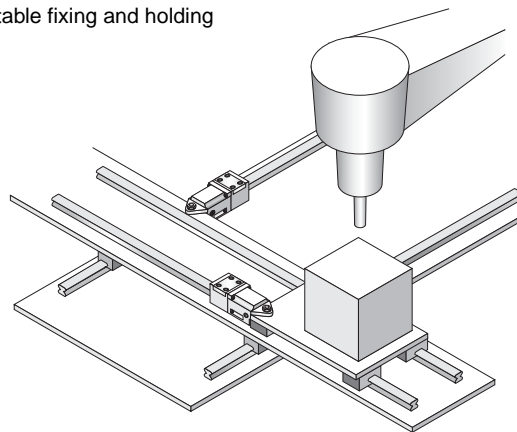
Frictional force is generated on the rail by the three-directional pressurizing force as shown with the arrows in the B-B' sectional view, and the rail is held with force.

Applications

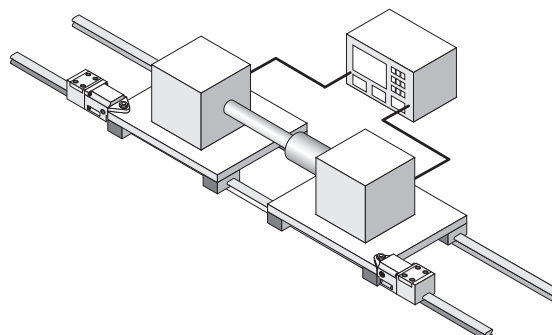
● Table fixing and position locking



● X-Y table fixing and holding



● Table fixing and holding at the desired position



SCP*2
CMK2
CMA2
SCM
SCG
SCA2
SCS
CKV2
CA/OV2
SSD
CAT
MDC2
MVC
SMD2
MSD*
FC*
STK
ULK*
JSK/M2
JSG
JSC3
USSD
USC
JSB3
LMB
STG
STS/L
LCS
LCG
LCM
LCT
LCY
STR2
UCA2
HCM
HCA
SRL2
SRG
SRM
SRT
MRL2
MRG2
SM-25
CAC3
UCAC
RCC2
MFC
SHC
GLC
Ending



Pneumatic components

Safety precautions

Always read this section before starting use.

Refer to Intro 71 for general precautions of the cylinder, and to Intro 78 for general precautions of the cylinder switch.

Linear guide lock LMB Series

Design & Selection

CAUTION

- Consult CKD if impact load is applied. (Impact could cause the unit to slip.)
- Do not apply the lateral load moment to a lock unit.

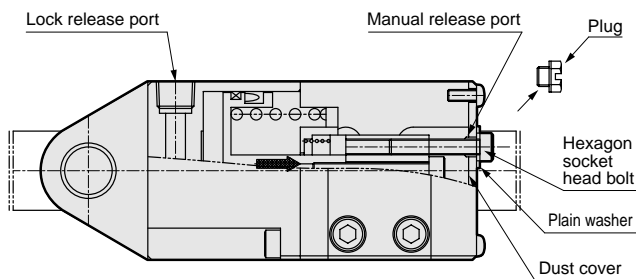
- Avoid use in areas with high levels of dust, or where water or oil could come in contact. (The holding force could drop.)

- Do not place a workpiece directly onto the lock unit.

Installation & Adjustment

CAUTION

How to unlock manually



- Confirm that external force is not applied when there is no air at the lock release port, and then disconnect the plug.
- Insert the M3 x 18 (LMB-SR-15) and M4 x 22 (LMB-SR-20, 25) hexagon socket head cap screw into the hole from which the plug was removed until the threads are caught. When inserting the hexagon socket head cap screw, insert a plain washer, and make sure that the bolt seat does not contact the dust cover.
- Once the threads are caught, if the screw is screwed in until it no longer moves, the lock will be released and freed.

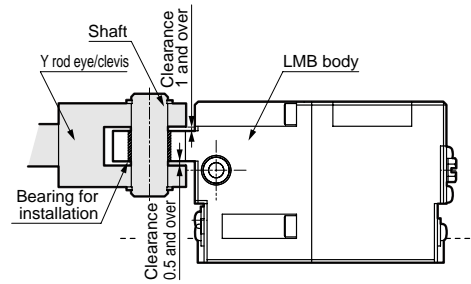
Note 1) The product is in the manual release state when shipped. Take care not to lose the hexagon socket head cap screw or plain washer.

Note 2) Do not use a hexagon socket head cap screw other than the above size. (The screw could be damaged or lock could not be released.)

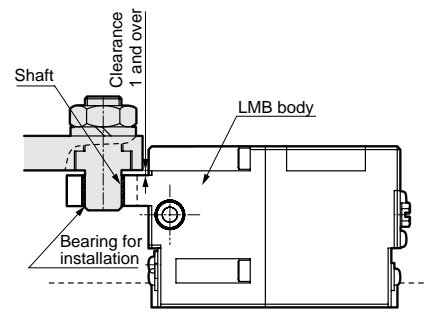
Note 3) If unlocked manually while the seat of the hexagon socket head cap screw and dust cover are contacting, the dust cover could be shaved and dust generated. It may not be possible to screw in the plug, so always insert a plain washer, and manually release when the screw and dust cover are not contacting.

How to install the product

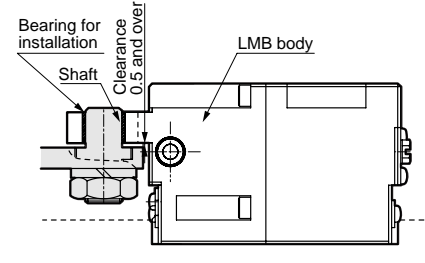
- Example of Y rod eye/clevis installation



- Example of installation from the top



- Example of installation from the bottom



Insert a shaft (pin) into the bearing for installation and connect with the slide table. Provide a clearance as shown above in this case. (Due to the structure, the LMB body lowers during locking, so if the bearings are fixed without a clearance, the lock will not be applied.)

During Use & Maintenance

WARNING

- Do not disassemble the lock unit, or could result in a dangerous situation.

SCP*2
CMK2
CMA2
SCM
SCG
SCA2
SCS
CKV2
CA/OV2
SSD
CAT
MDC2
MVC
SMD2
MSD*
FC*
STK
ULK*
JSK/M2
JSG
JSC3
USSD
USC
JSB3
LMB
STG
STS/L
LCS
LCG
LCM
LCT
LCY
STR2
UCA2
HCM
HCA
SRL2
SRG
SRM
SRT
MRL2
MRG2
SM-25
CAC3
UCAC
RCC2
MFC
SHC
GLC
Ending

Linear guide lock
With brake

SCP*2
 CMK2
 CMA2
 SCM
 SCG
 SCA2
 SCS
 CKV2
 CA/OV2
 SSD
 CAT
 MDC2
 MVC
 SMD2
 MSD*
 FC*
 STK
 ULK*
 JSK/M2
 JSG
 JSC3
 USSD
 USC
 JSB3
LMB
 STG
 STS/L
 LCS
 LCG
 LCM
 LCT
 LCY
 STR2
 UCA2
 HCM
 HCA
 SRL2
 SRG
 SRM
 SRT
 MRL2
 MRG2
 SM-25
 CAC3
 UCAC
 RCC2
 MFC
 SHC
 GLC
 Ending

Linear guide lock

LMB Series



Specifications

Descriptions	LMB-SR-15	LMB-SR-20	LMB-SR-25
Applicable rails	SR-15/SSR-15 THK	SR-20/SSR-20 THK	SR-25/SSR-25 THK
Working fluid	Compressed air		
Max. working pressure MPa	1.0		
Min. working pressure MPa	0.35		
Withstanding pressure MPa	1.5		
Ambient temperature °C	-5 to 60°C (no freezing)		
Lubrication	Not available		
Port size	Rc1/8		
Holding force N (Note 1)	1175	1960	2450
Weight g	600	1100	1900

Note: 1: Holding force (maximum static load) is the performance to hold a static load without vibration and shock with unit locked in a loadless state.

How to order

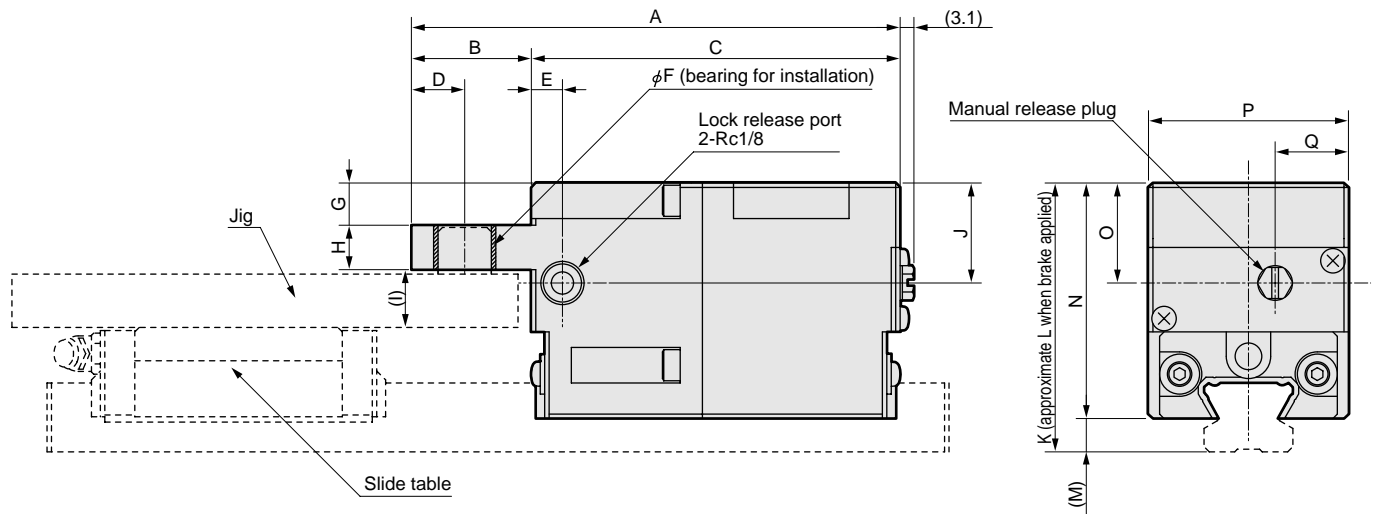
LMB-SR - 15



A Applicable rail size

Symbol	Descriptions
A	Applicable rail size
15	SR-15/SSR-15
20	SR-20/SSR-20
25	SR-25/SSR-25

Dimensions



Model no.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
LMB-SR-15	100	24	76	10	7	10 ^{+0.15} ₀	7	8	8	16.5	47	47.5	6.5	40.5	17.5	35	13
LMB-SR-20	110	27	83	12	7	12 ^{+0.15} ₀	9.5	10	13	22.5	60.5	61	7.5	53	22.5	45	16.5
LMB-SR-25	125	32	93	13.5	7	15 ^{+0.15} ₀	13	10	17	27.5	73	73.5	9	64	27.5	55	19.5

- SCP*2
- CMK2
- CMA2
- SCM
- SCG
- SCA2
- SCS
- CKV2
- CA/OV2
- SSD
- CAT
- MDC2
- MVC
- SMD2
- MSD*
- FC*
- STK
- ULK*
- JSK/M2
- JSG
- JSC3
- USSD
- USC
- JSB3
- LMB**
- STG
- STS/L
- LCS
- LCG
- LCM
- LCT
- LCY
- STR2
- UCA2
- HCM
- HCA
- SRL2
- SRG
- SRM
- SRT
- MRL2
- MRG2
- SM-25
- CAC3
- UCAC
- RCC2
- MFC
- SHC
- GLC
- Ending

Linear guide lock
With brake