

LCM Series

Selection guide

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

STEP-1

Confirm that the load moment in each direction is below the allowable value in all strokes.

- Direction of moment guide, center position X

Direction	Fig.	Formula
M1 moment		$M1 = L1 \times W$
M2 moment		$M2 = L2 \times W$
M3 moment		$M3 = L3 \times W$

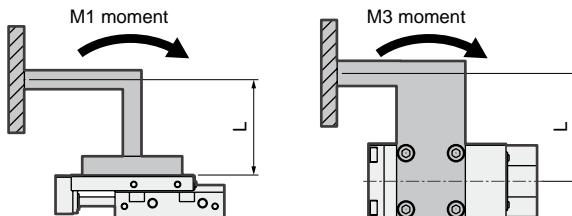
- Allowable moment

Model no.	M1	M2	M3
LCM-*4.5	0.24	0.22	0.29
LCM-*6	0.28	0.23	0.34
LCM-*8	0.28	0.38	0.34

- Guide center position dimensions

Model no.	Stroke length	X		
		Standard	With buffer	Clean room spec.
LCM-*4.5	5	30	40	35
	10			
LCM-*6	5	31.5	41.5	36.5
	10	36.5	46.5	41.5
LCM-*8	5	31.5	41.5	36.5
	10	41.5	51.5	46.5
	15			
	20			

* If the workpiece is contacted at a point offset from the guide section in the middle of the thrust, a large moment may be generated depending on the thrust.



STEP-2

Confirm that dynamic energy from cylinder load weight and piston speed is less than allowable energy absorption.

Bore size	$\phi 4.5$	$\phi 6$	$\phi 8$
Allowable energy absorption J	1.59×10^{-3}	2.83×10^{-3}	5.02×10^{-3}

