

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

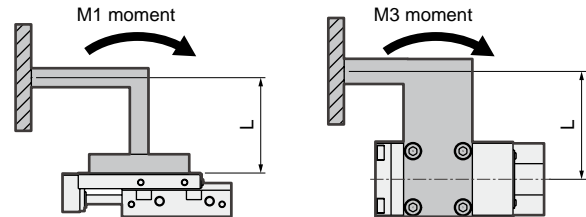
N·m

• 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			
	15			
LCM-*-8	5	31.5	41.5	36.5
	10			
	15	41.5	51.5	46.5
	20			

mm

* 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	φ 4.5	φ 6	φ 8
Allowable energy absorption J	1.59×10^{-3}	2.83×10^{-3}	5.02×10^{-3}

