STEP-1

Confirm that the load moment in the full stroke length is within the allowable value in each direction.

• Direction of moment and length to the center of the guide (X)

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

• Allowable moment

N·m

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

• Length to the center of the guide

mm

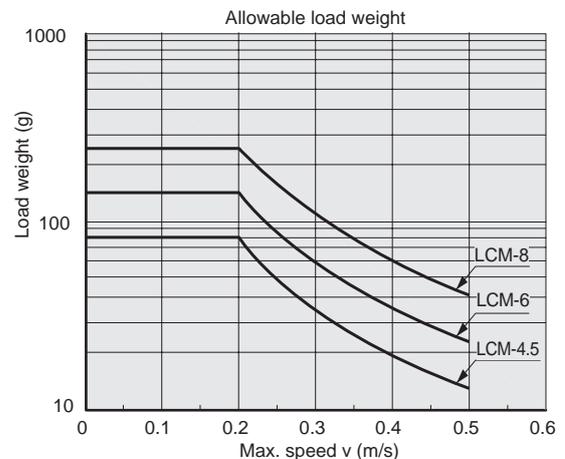| Model No.	Stroke length	X
LCM-*-4.5	5	35
	10	
LCM-*-6	5	36.5
	10	
	15	41.5
	20	46.5
	30	56.5
LCM-*-8	5	36.5
	10	
	15	46.5
	20	
	30	56.5

* Note that if a workpiece makes contact at a point off the guide during the stroke, the thrust will cause a large moment.

M1 moment

M3 moment
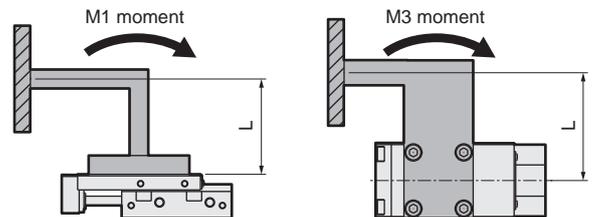
STEP-2

Confirm that the kinetic energy obtained from the load weight of the cylinder and the piston speed is within the allowable absorbed energy.

Bore size	ø4.5	ø6	ø8
Allowable energy absorption J	1.59×10^{-3}	2.83×10^{-3}	5.02×10^{-3}

Allowable load weight