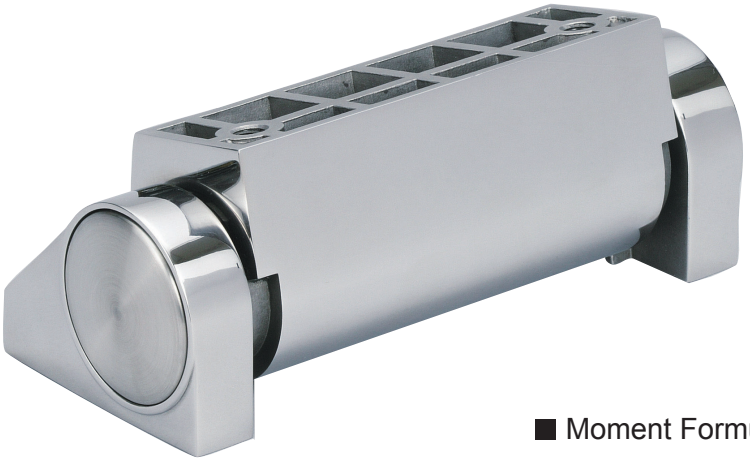
LIFT ASSIST HINGE

STAINLESS 316 STEEL | NO SCREW | Lapcon

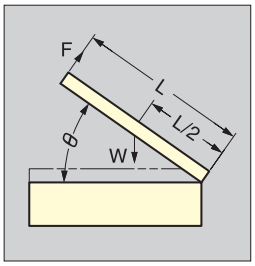
HG-JH210

- Designed for industrial access panels.
- Built-in damper keeps lid from slamming shut.
- Passed private 30,000 open/close cycle tests.
- Maximum torque: 210 kgf·cm (182 lbs·in) per piece.



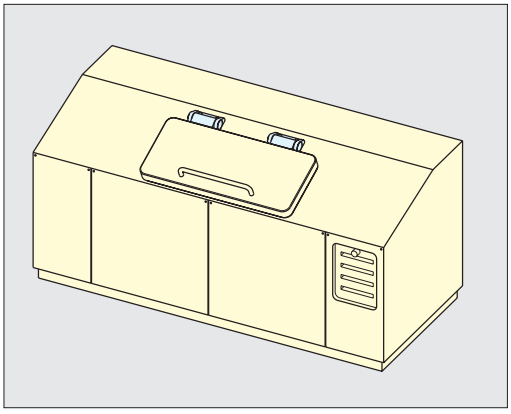
Moment Formula and Graph

Door Moment	$Mt = W \times \frac{L}{2} \times \cos\theta$
Hinge Moment	$Mh = Mm \times (1 - \frac{\theta}{115})$
Torque to lift door	$Mz = Mh - Mt$
Force to lift door	$F = \frac{Mt - Mh}{L}$



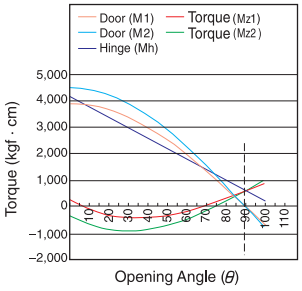
W : Door Weight
L : Door Length
θ : Opening Angle
Mm : Torque of Assist Hinge

When Mz is:
"-" shows closing force. "+" shows opening force.

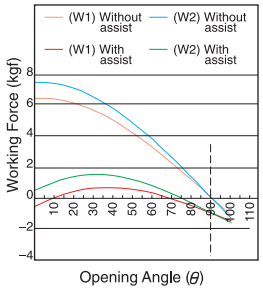


Installation

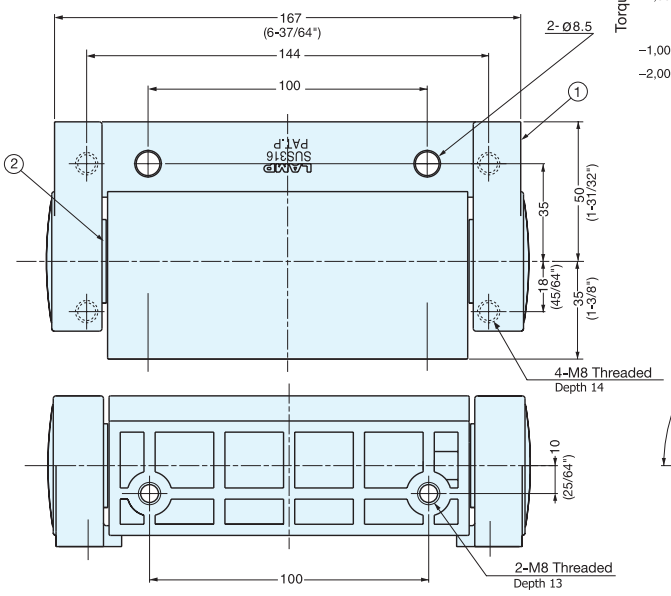
Assist Hinge Moment

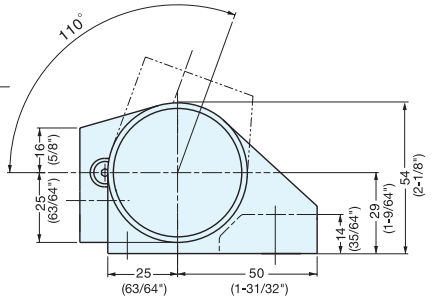


Working Force at opening Angle (Compared with No Assist)



*When used as a pair. (L: 60 cm, W1: 13 kg, W2:15 kg)





Item No.	Torque per piece (kgf·cm)	Weight (kg)	Box (pcs)	Carton (pcs)
HG-JH210	210 (182 lbs·in)	2.4	1	10

No.	Part Name	Material	Finish
①	Body	316 Stainless Steel	Mirror
②	Built-In Damper	304 Stainless Steel + PBT Plastic	-