HINGES



## STAINLESS STEEL LIFT ASSIST HINGE







## **HG-JH210**



- Spring assists in opening heavy doors.
  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

 $Mt = W \times \frac{L}{2} \times \cos \theta$ **Door Moment**  $Mh = Mm \times (1 - \frac{\theta}{115})$ **Hinge Moment** 

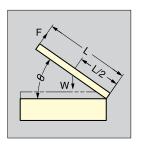
Torque to lift door Mz = Mh - Mt\_ Mt-Mh Force to lift door

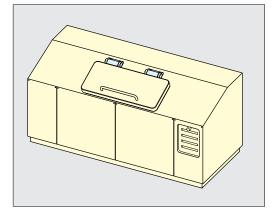
W : Door Weight : Opening Angle L : Door Length Mm : Torque of Assist Hinge



2-Ø8.5

<sup>&</sup>quot;-" shows closing force. "+" shows opening force.

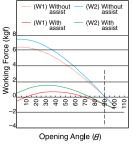




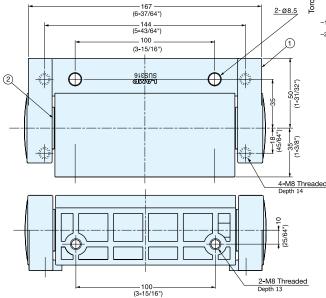
Assist Hinge Moment

Torque (Mz1) Torque (Mz2) Door (M1) Door (M2) Hinge (Mh) 5,00 cm) 3.00 Torque (kgf 2.00 1,00 8 8 8 8 8 8 8 -1,00 -2.000 Opening Angle (0)

Working Force at opening Angle (Compared with No Assist)



\*In case of HG-JH210 used in pair. (L: 60cm, W1: 13kg, W2:15kg)



(53/647) (5/87)			(35/64°) (35/64°) (1-8/64°) (2-1/8°)
	25 (63/64")	50 (1-31/32")	1 10 1 1

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	-

