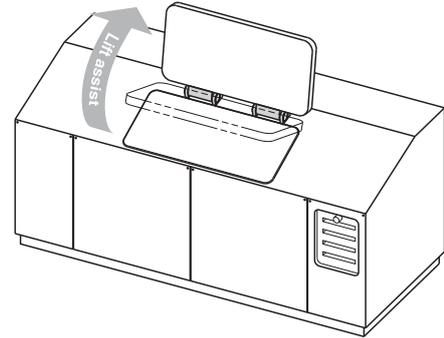# LAMP® STAINLESS STEEL
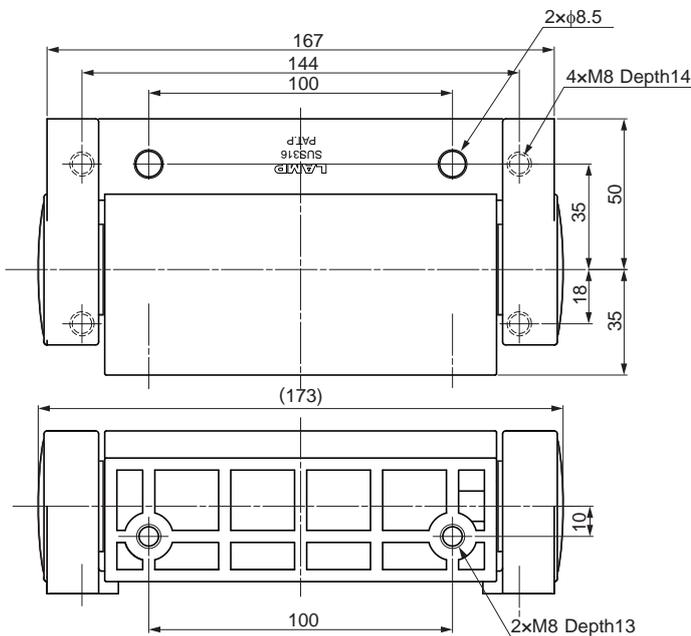# LIFT-ASSIST HINGE HG-JH210
INSTALLATION INSTRUCTION

Thank you for selecting our product. Before starting installation, please read this manual thoroughly to ensure correct installation.
Please keep this manual at hand for future reference.

ABOUT THE PRODUCT

● Easy to lift heavy top-opening lid with spring tension (lift assist function).
● Supplied damper prevents top-opening lid from slamming shut.

DIMENSIONS, SPECIFICATIONS

2×φ8.5
167
144
100
4×M8 Depth14
LAMP SUS316 PAT.P
35
50
18
35
(173)
10
Close
100
2×M8 Depth13

· Screws are not provided.

Specifications

Assist torque	20.6 N・m
Built-in damper max. load torque	7 N・m
Damper effective angle	Approx. 30°or more
Ambient temperature	0 - 40℃
Hinge operating angle	0 - 110°

Open

110°
16
25
Close
25
50
14
29
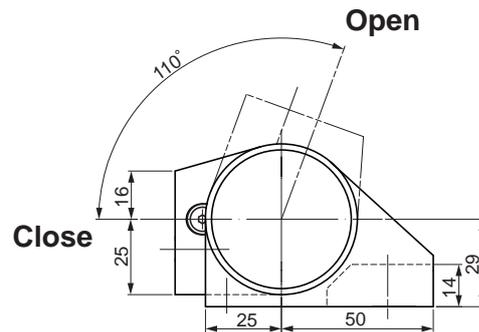
FOR YOUR SAFE WORK AND CORRECT INSTALLATION

Meaning of symbols

| ⚠ Warning Caution	🚫 Prohibited	❗ Required

⚠ **Caution**   If these cautions are not followed, it may result in injury or damage.

❗ Make sure to follow the designated measurements, specifications, and horizontal/vertical angles.

❗ It is necessary to manufacture the cabinet with sufficient strength so as to endure the weight of the lid.

❗ Be sure to install the JH-210 (2 pcs - recommended) at parallel position.

⚠ To avoid pinching fingers, it is recommended to set residual moment at 0˚ in positive value. (A catch for lid may be necessary.)

❗ Make sure to check the screws for slack at regular intervals (one month from first usage, half year and then one time every year is recommended).
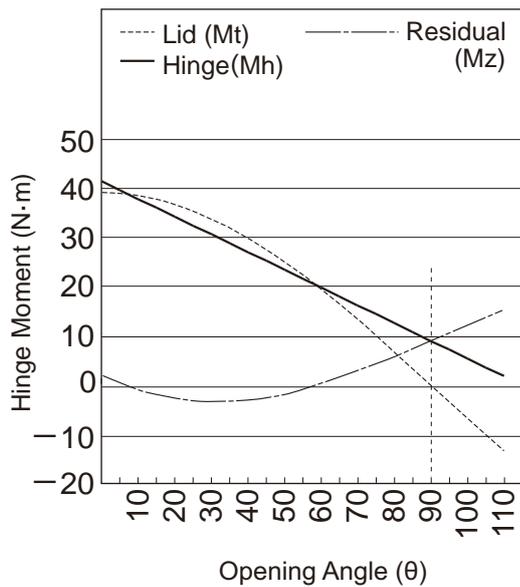
Calculation Formula and Graph of Moment

Lid moment: Mt $= W \times \cos\theta \times \dfrac{L}{2}$

Hinge Moment: Mh $= Mm \times (1 - \dfrac{\theta}{115})$

Residual moment: Mz $= Mh - Mt$

Operating force: F $= \dfrac{Mt - Mh}{L}$

W ： Lid weight
θ ： Lid opening angle
L ： Lid length
Mm ： Max. moment of hinge
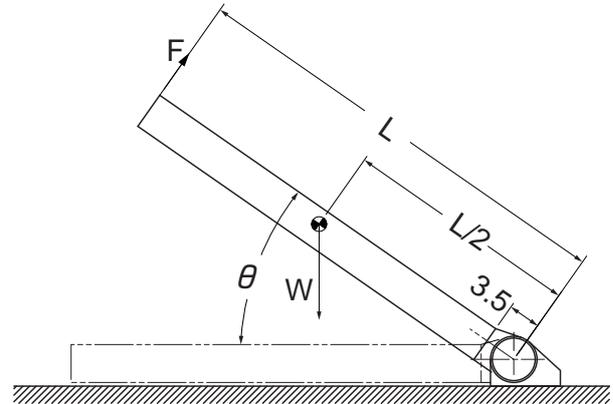
Assist Hinge Moment

Opening Angle (θ)

●Residual Moment (Mh-Mt)

　[-] Forcing in closing direction

　[+] Forcing in opening direction

●Left figure shows an example of L= 60 cm,

　W = 13 kg with 2 pcs of HG-JH210.

　Design a lid with its residual moment does not

　exceed 14 N·m with two hinges.

MOUNTING

【1】 Mount hinges at opened status as the right figure.

【2】 Fix the hinges with screws.

　　 (Two screws from top or four screws from bottom).

【3】 Check the movement of lid by opening and closing.

x4

x4