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HG-JH210 LIFT ASSIST HINGE

HG-JH210
Stainless Steel Hinge with Lift Assist and Damper,
Opening Angle up to 110°

- Lift Assist
- Built in Damper
- Built-in helical torsion spring makes lid feel lighter when opening.

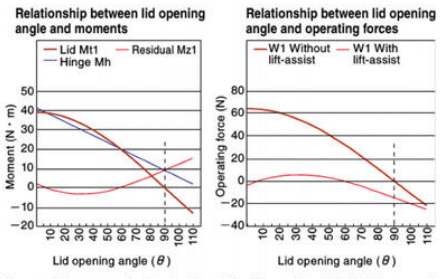


PRODUCT DESCRIPTION

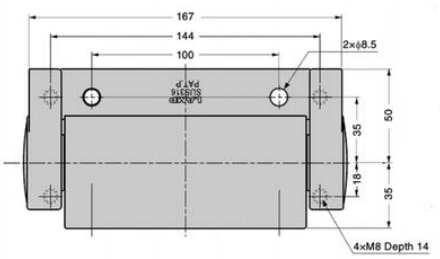
The HG-JH210 is a robust stainless-steel lift-assist hinge designed for industrial-grade access panels, doors, or lids where controlled movement is essential. With a helical torsion spring that provides lift-assist functionality, reducing the effort needed to raise heavy lids. It includes a built-in damper effective from about 30° of opening, ensuring a slow, soft-close action and preventing slamming. Each hinge offers a maximum torque of 7Nm with ±10 % tolerance, supports up to 110° of opening angle, has passed rigorous 30,000–cycle durability testing, and mounts with M8 fasteners.
In practice, the HG-JH210 is ideal for heavy-duty industrial environments, such as engine bays, machinery inspection panels, and equipment cabinets, where safety, precision, and longevity are critical. Its combination of lift-assist and damping motions aligns with Sugatsune's core Motion Design Tec philosophy, which promotes intuitive, smooth hardware interaction. The corrosion-resistant stainless construction and polished finish make it well-suited for marine, pharmaceutical, or food-grade settings. Thanks to its high torque capacity and soft-closing mechanism, operators can effortlessly open and close heavy lids without sudden movement or impact.

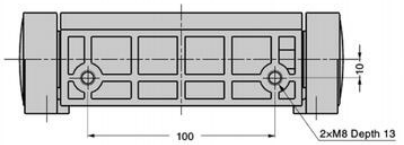
TECHNICAL DATA

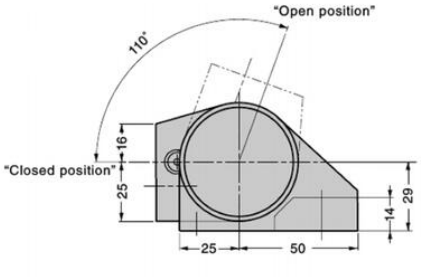
Material	Stainless steel
Operating Range	0°~110°
Surface finish	Polished
Weight	2350 g



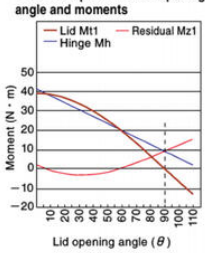
The graph is an example when L=60cm, W1=12kg, and two HG-JH210 are used. At this time, the maximum load torque of built-in damper is 7×2=14N・m(142.8 kgf・cm).Damper works when the residual moment is 14N・m or less. (Room temperature)



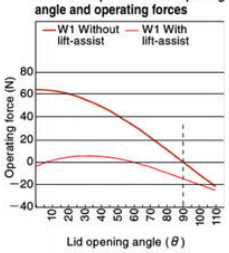




Relationship between lid opening angle and moments



Relationship between lid opening angle and operating forces



The graph is an example when L=60cm, W1=12kg, and two HG-JH210 are used. At this time, the maximum load torque of built-in damper is 7×2=14N・m(142.8 kgf・cm).Damper works when the residual moment is 14N・m or less. (Room temperature)

