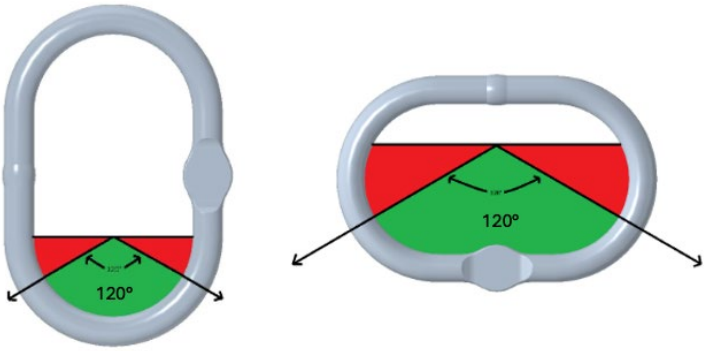
Växjö, September 26th, 2025

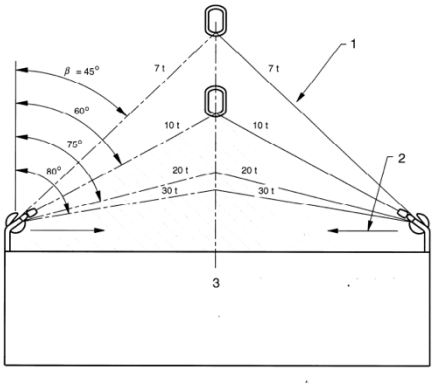
Technical Statement regarding frequent lifting on maximum capacity

Reference: *Gunnebo Industries Lifting Guide* (Lifting_guide_edition_7_2019.pdf)

Kito Crosby hereby issues the following technical guidance concerning the use of chain slings and associated master links in lifting operations.



The lift in question involves the use of a chain sling with master link, with a Working Load Limit (WLL) of **6.8 tonnes**. While this is within the rated capacity of the equipment, it must be emphasized that frequent lifting at or near the maximum WLL, especially when combined with maximum permissible lifting angles at 120 degrees, introduces unnecessary operational risks. Such practices increase wear on equipment, reduce service life, and may compromise overall lifting safety.



1) Loading of leg
2) Horizontal component of force
3) Load 10t

The hatched area indicates angles greater than 60 ° to the vertical at which chain slings should never be used.

According to the *Gunnebo Industries Lifting Guide* and in accordance with recognized international best practices and standards, when chain slings are subjected to frequent use at or close to their maximum rated load, it is recommended to increase the equipment size to the next higher capacity. This ensures an adequate safety margin and enhances both operational integrity and personnel protection.

For the application described, Kito Crosby formally recommends the use of the **MF-2016-10 Master Link** in conjunction with **KLA 16-10 chain**. This configuration provides a higher rated capacity, offering an additional safety buffer beyond the 6.8-tonne WLL requirement.



The logging industry is recognized as a high-risk environment. In such conditions, applying conservative safety margins is critical. By upsizing to the recommended configuration, the risks associated with continuous maximum-load lifting are significantly reduced, ensuring compliance with the *Gunnebo Industries Lifting Guide* and the highest standards of safety.

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