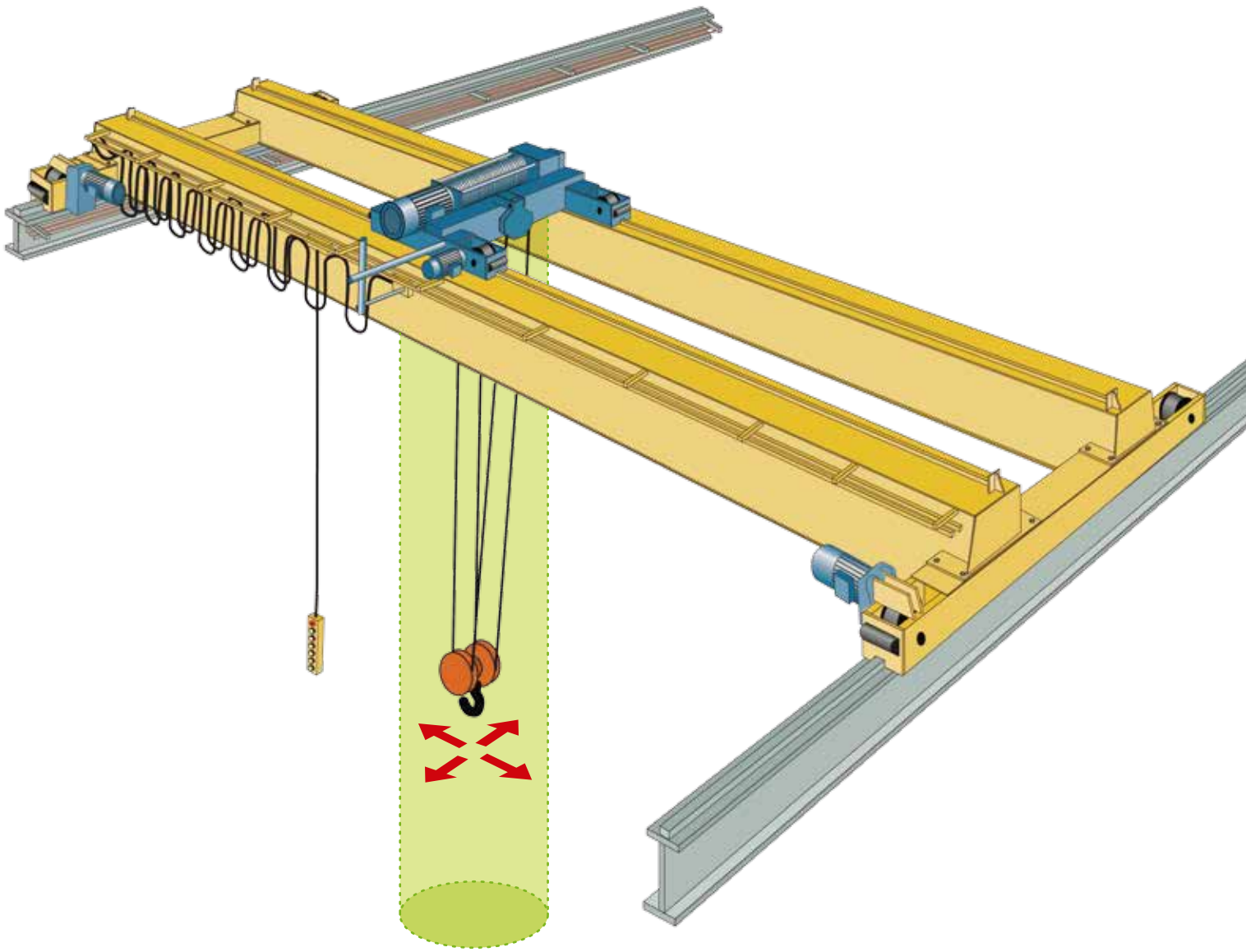
MUNCK CRANES INC.
-all about handling-

cal®

by MUNCK



MUNCK CRANES

- all about handling

VALUE
QUALITY
EXPERIENCE

CAL® by MUNCK

- **Munck Cranes**, with more than 3 5 years serving North America industries, has established itself as a leading company in the lifting equipment market. In a tradition and history of quality and reliability, Munck has been able to develop solutions over the years that have been successfully tested and permanently marketed in industries as varied as mining, automotive, steel, aeronautics, among others.

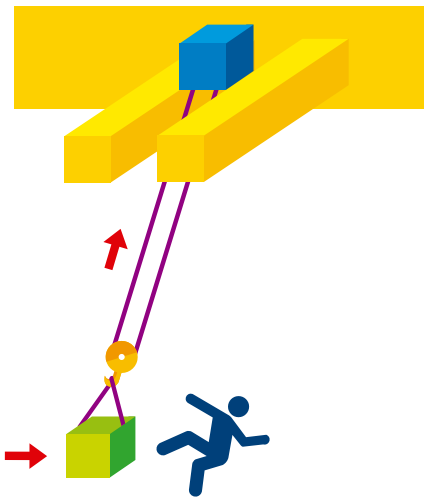
- With a philosophy of continuous innovation and in the quest to provide real support in the safety of handling equipment, Munck Crane Systems offers an innovative device called **Correct Angle of Lifting® (CAL®)**.

- With the experience and knowledge of the market, we can assure that a great part of the mishaps happening in the field with lifting equipment are a result of the loads pulled laterally carried out by the operators. The stress to which the crane is subjected will cause damage (or breakage) of the wire rope and important parts of the drum which endangers the operation, or the proper lifting of the load which can end with load dropping, not to mention the potential danger to which personnel is exposed to with a possible hit by the pendulum of the load itself.

- **CAL®** is an ant-side pull device: this is an electronic device that detects the crane hook when it is off center to which damages and hazards related to the operation of the loads will be reduced to a minimum.

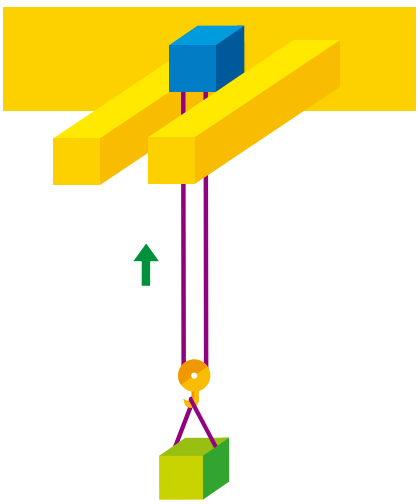
FACTS

Cranes and hoists are designed for vertical lifting only. When doing lateral lifts, components such as hook block, sheaves, ropes, drum, wire rope guide, and even the general structure can be damaged.



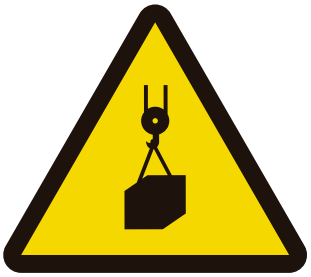
EXAMPLE OF LATERAL LOADING

Example of lateral loading. This image shows the incorrect lifting of a load. The load goes sideways as the weight goes up which puts at risk the safety of personnel, crane and general facilities. Severe damage can cause the load to fall to the floor.



EXAMPLE OF VERTICAL LOADING

Example of vertical loading. A vertical load refers to the relation between the wire rope and the load that forms a 90° angle to the crane which means that the load and hook remain perpendicular. This purpose is to eliminate the swaying effect of the load and for what the crane was designed to do.



Do not endanger the integrity of your lifting equipment and your assets, but above of all, your personnel safety.

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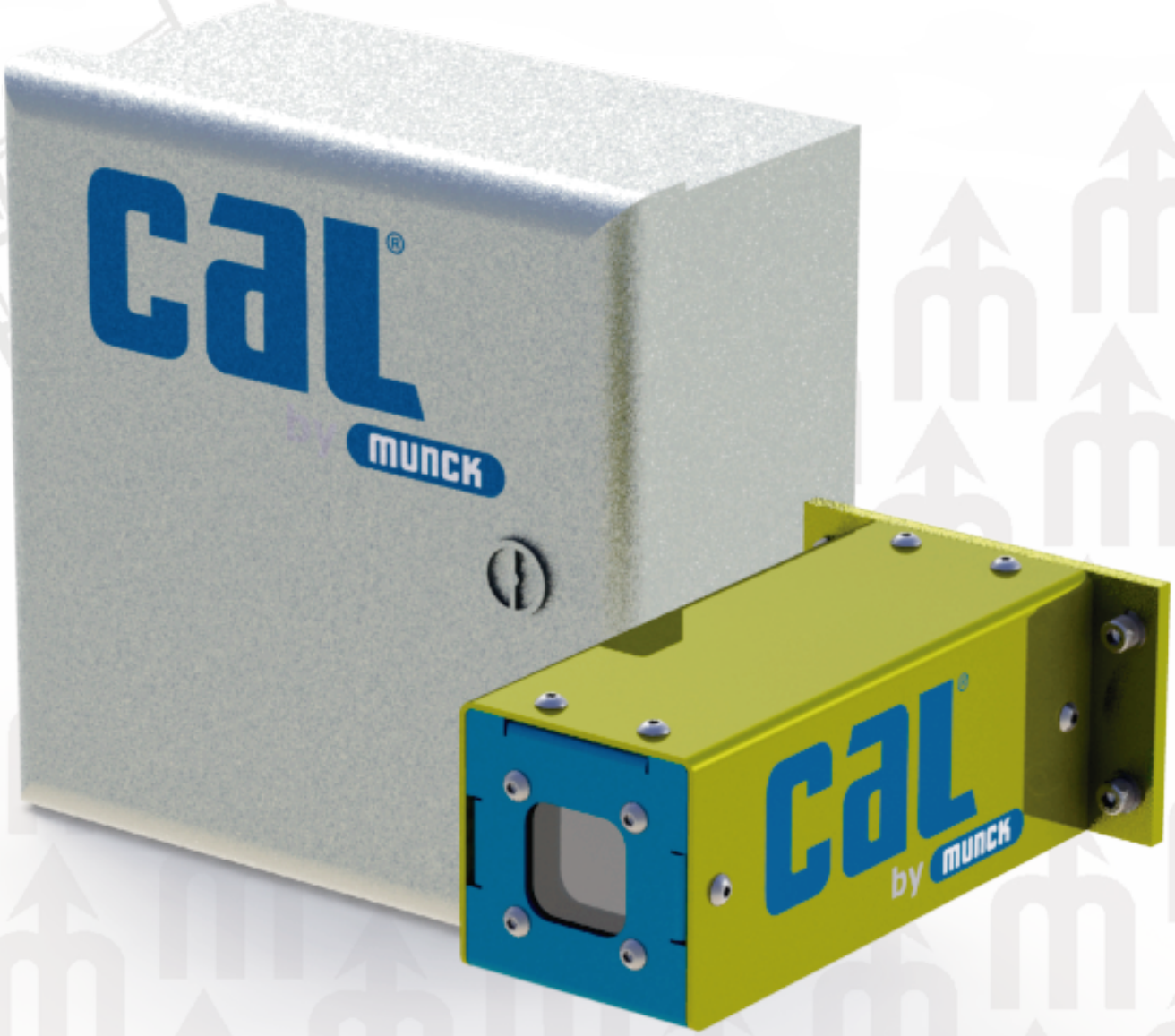
CORRECT ANGLE OF LIFTING® (CAL®)



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YOUR CRANE AND MATERIAL HANDLING MAINTENANCE SPECIALIST

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