





Why hoists for arctic environments?

In many parts of the world, hoists are being used in temperatures below -20°C. Commonly associated with such extreme temperatures are northern regions such as parts of Canada, the United States, Greenland, Iceland, Northern Norway, Sweden and Finland and the Russian Federation.

In practice, there are many more regions where applications with hoists must sustain temperatures below -20°C.

Examples include assembly or repair work, e.g. of cable cars in mountainous regions, in cold stores, in oil and gas production in the North and Baltic Seas or simply in external assembly and repairs in the construction industry. In all of these areas, hoists must function safely even under extreme temperatures, in order to keep risks to people and material as low as possible and to enable effective work. The selection of the right hoists and cranes is of crucial importance for the operator.











The Impact of cold on steel and other construction materials!

Many materials change their behavior at low temperatures. Depending on the chemical composition and heat treatment, some steels then tend to brittle fracture. In addition, the sensitivity to shock loads increases.

As a result, fractures can occur suddenly without prior deformation, which cannot be foreseen by the user. In addition, the lubricants used must be suitable for the low temperatures, otherwise the safety functions of the hoist can be impaired.

All products under the label *ARCTIC EDITION* are sold complying with these requirements and using appropriate materials and lubricants. This has been extensively tested at an ambient temperature of -40°C. These tests included functional stress tests, endurance tests, fracture strength tests and impact tests.

Because of the done changes and the extensive test, we hereby confirm that the following products can be stored and/or used in a temperature range from -40°C to +50°C!



The **Yale** *ARCTIC EDITION* products were specially developed and tested for use in extreme ambient temperatures. This allows the user to safely store and use the products listed below in a temperature range down to -40°C.

Yalelift 360

CAPACITIES 1000 - 3000 KG

With the Yale ARCTIC EDITION the field of application of the tried and tested Yalelift 360 manual hand chain hoist can now be expanded to applications under extreme low temperatures.

Care was taken to ensure that all functions, especially its innovative 360° hand chain guide, function optimally and safely even under extreme temperatures. The materials and lubricants used were adapted to the requirements and tested and certified in complex low-temperature test procedures.

This allows the user to work safely and productively with the Yalelift 360 even at temperatures down to -40°C, whereas standard hoists without these measures may only be used down to -20°C (DIN EN13157 Cranes - Safety - hand-operated cranes).

In addition to static tests, dynamic low-temperature tests were also carried out to rule out malfunctions and material failure.

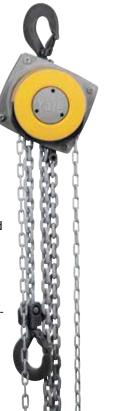
We can confirm the user's suitability with a certificate!

INFO

Standard hoists according to EN13157 (cranes - safety - hand operated cranes)

5.1.12 Temperature

Hand chain blocks and their components shall be capable of operating within an ambient temperature range of -10°C to +50°C unless another temperature range is agreed between the manufacturer and the purchaser. Standard hoist products from CMCO are suitable for a temperature range of -20°C to +50°C!



YaleUNOplus

ARCTIC EDITION

Series A

CAPACITIES 750 - 3000 KG

As with the Yalelift 360, we are also introducing the Yale UNOplus Series A in *ARCTIC EDITION*, a hand lever hoist for extreme applications.

It was ensured that all functions even under extremes temperatures work satisfactory. Materials used for this purpose as well as lubricants adapted to the requirements and tested and certified in complex low-temperature test procedures, which means that the user can work safely and productively with the YaleUNOplus Series A, allows temperatures down to -40°C.

In addition to static tests, dynamic low-temperature tests were also carried out to rule out malfunctions and material failure

We can confirm the user's suitability with a certificate!





Applications in cold workplaces







Gas Exploration



Commercial Fishing



Construction



Oil Exploration



Pipeline Construction



Power Lines



Maintenance



Wind Energy



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