

The igus cables guaranteed to run, even at extreme temperatures of -40 to +60 degrees

igus doubles cable test area for extreme temperatures

Cologne, 29 September 2016 – In the course of its test laboratory expansion, the cable manufacturer and motion plastics specialist igus has set up another 40-foot container to carry out cable tests at extreme temperatures under real conditions. As a result, igus is the only cable manufacturer capable of providing guaranteed temperature ratings for fixed cables, moving cables, and also for cables in energy chains.

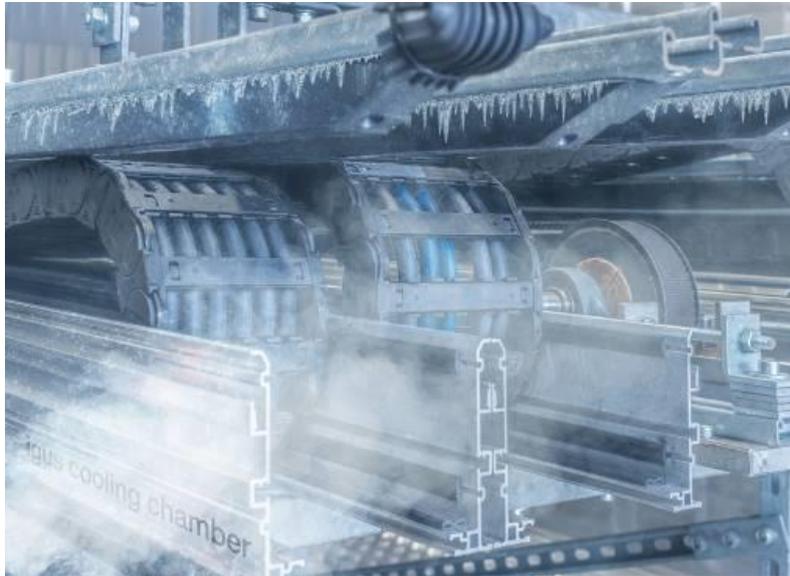
Continuous movements alone are a challenge for cables, but how do cables behave at extreme temperatures of -40 degrees Celsius or +60 degrees Celsius? There are indeed international standards for moving cables on the market, but they do not provide reliable information about the service life of moving cables at low or high temperatures in use in energy chains. For this reason, the cable expert igus has been testing its cables in continuous motion for a period of over ten years in these conditions and has now set up another test rig. "As part of our test lab extension to 2,750 square metres, we have now purchased a second 40-foot container and will run only heat tests in one, and cold tests in the other," explains Rainer Rössel, head of the chainflex division at igus. "This separation gives us even more precise test results and can thus guarantee even more reliable statements about our cables." Energy chains with cables can be moved in both containers in different lengths (also gliding) and speeds.

Guaranteed service life statements for extreme temperatures

Due to the large number of tests under real conditions, igus is the only supplier on the market to be able to make three statements on the appropriate bending radius and the permissible temperature for every cable in its chainflex catalogue. "We not only provide the information on the specific temperatures in which a cable is suitable for fixed installation as well as for the movement according to the standard cold winding test, we can also specify for each chainflex cable a temperature in which the cable can move with guaranteed reliability in an e-chain.

The varying temperatures in applications under these conditions are as different as the problems that can arise: In the case of cold tests, jacket ruptures are the biggest challenges. In the case of excessive heat, however, there is the risk that the total core formation will no longer hold due to the thermal alteration of the outer jacket and ultimately fails because of the constant bending in the energy chain. As a result, for example, single strand breakage or the so-called 'corkscrew' effect can occur. By doubling the test capacities in the second container, the limits can now be simulated better by igus and, for example, problems with condensation water caused by rapid temperature changes can be prevented in the test rigs.

Captions:



Picture PM5016-1

In the new igus cooling chamber, tests can be run under real conditions down to -40 degrees Celsius. (Source: igus GmbH)

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ABOUT IGUS:

igus GmbH is a globally leading manufacturer of energy chain systems and polymer plain bearings. The Cologne-based family business has offices in 35 countries and employs around 2,950 people around the world. In 2015, igus generated a turnover of 552 million euros with motion plastics, plastic components for moving applications. igus operates the largest test laboratories and factories in its sector to offer customers quick turnaround times on innovative products and solutions tailored to their needs.

The terms "igus", "chainflex", "CFRIP", "conprotect", "CTD", "drylin", "dry-tech", "dryspin", "easy chain", "e-chain", "e-chain systems", "e-ketten", "e-kettensysteme", "e-skin", "energy chain", "energy chain systems", "flizz", "iglide", "iglidur", "igubal", "invis", "manus", "motion plastics", "pikchain", "readychain", "readycable", "speedigus", "triflex", "twisterchain", "plastics for longer life", "roboLink", "xiros", "xirodur" und "vector" are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.