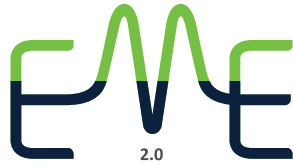


TensionCam products brought to you by,



A BULTEN company

EXIM & MFR ENTERPRISE
義信企業私人有限公司

Your partner in single source solutions

Total bolt clamp load control

Without correct bolt clamp load, the risks for severe failures, leakages, breakdowns and personal injuries rise drastically.

General failure root causes like relaxation, bolt "neighbour" effects, in-precise torque tightening and lack of documentation must all be addressed to assure the correct clamp load.

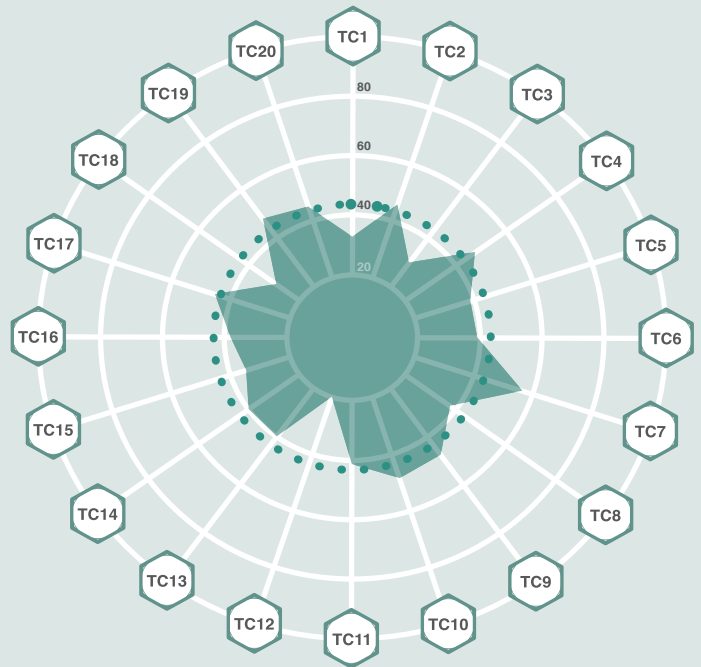
The TensionCam concept for measuring clamp load is the solution! With our patented system and devices, TensionCam can provide all the data, documentation and information that is currently lacking when it comes to enabling total bolt clamp load control.

With our special bolts and nuts, accompanied by our tailor-made sensor connected to the easy-to-use TensionCam app along with our web portal, TensionCam can within seconds provide in-depth charts and data of the clamp load per individual bolt or nut. It also comes accompanied by the possibility of remote support analysis.

- TensionCam nuts and bolts are available in M16 sizes and larger
- Easy to use for every operator
- Wide range of industry applications
- Insights supplied in easy and comprehensive ways; improve your bolt installation quality!
- Measurement precision +/- 5-7% of Full Scale



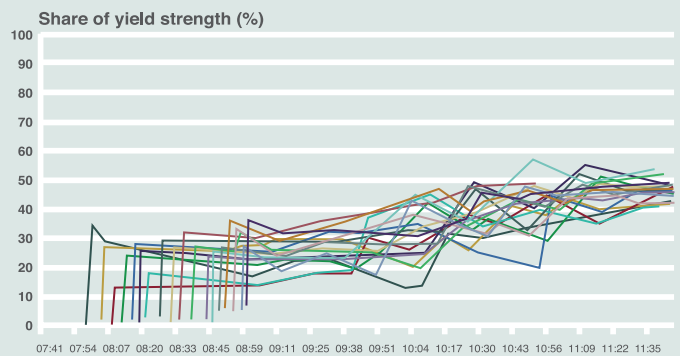
TensionCam™



With the patented TensionCam concept, the clamp load is measured by using a special sensor module, via our TensionCam app as a user interface.

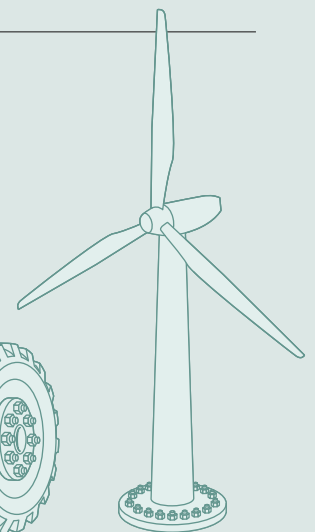
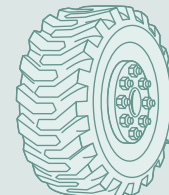
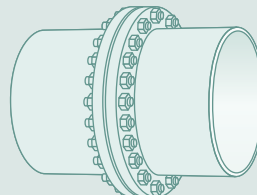
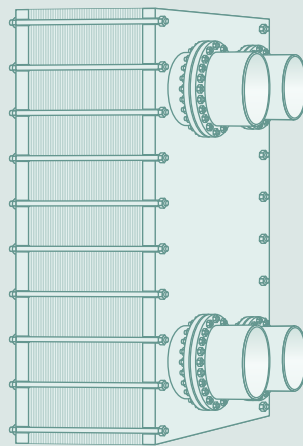
The module includes a special image sensor that – when docked to a cavity of our special nut or bolt – makes images of a precision machined pattern on the cavity bottom.

The images are sent to our TensionCam cloud where unique algorithms are used for analyzing the patterns in the images. The pattern change dimensions and forms with the level of bolt clamp load. All measured values are saved on our server and are available online in trend diagrams for each individual bolt or nut.



Application examples:

- Industrial heat exchanger
- Pipe connection and flanges
- Vehicle wheels
- Wind power foundation and anchor bolts



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