

DIGITAL CHAIN



**Digital Chain Solutions
Load Analysis**

DCS Load

Developed & designed by KettenWulf



Digital Chain Solutions Load Analysis



DCS LOAD
Visualize the performance
of your plant

Digital Chain Solutions (DCS)

As the world's leading manufacturer of conveyor chains, drive chains and sprockets, KettenWulf strives for the best solutions and is constantly developing its products.

Within the framework of our "Digital Chain" concept, we develop digital product service systems. These add-ons enable improvements of the development, analysis and maintenance processes.

DCS Load

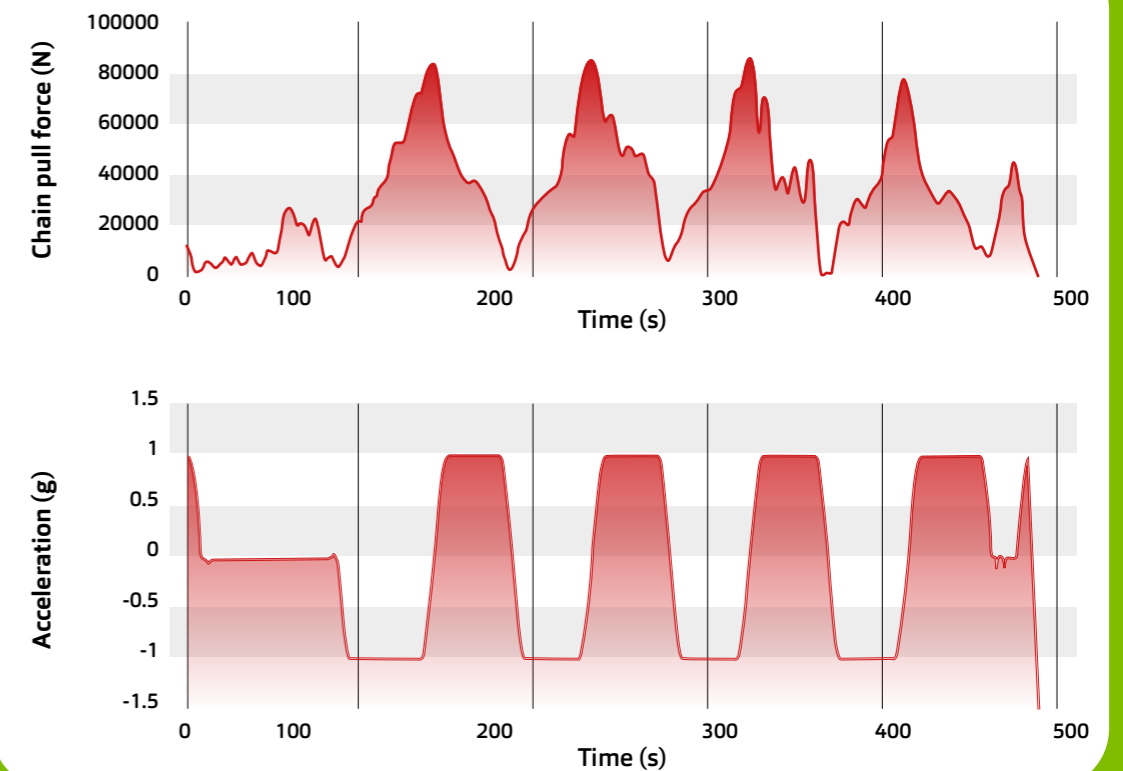
Up to now, chain pull force data were often based on theoretical calculations or the evaluation of motor data.

The DCS Load system developed by KettenWulf provides unprecedented insight into the performance of a conveyor system.

With DCS Load, the chain pull force curve in the conveyor system can now be recorded directly on the conveyor chain.

During the measurement, the data is continuously sent to a data logger. Afterwards, KettenWulf engineers will evaluate the data and prepare a report.

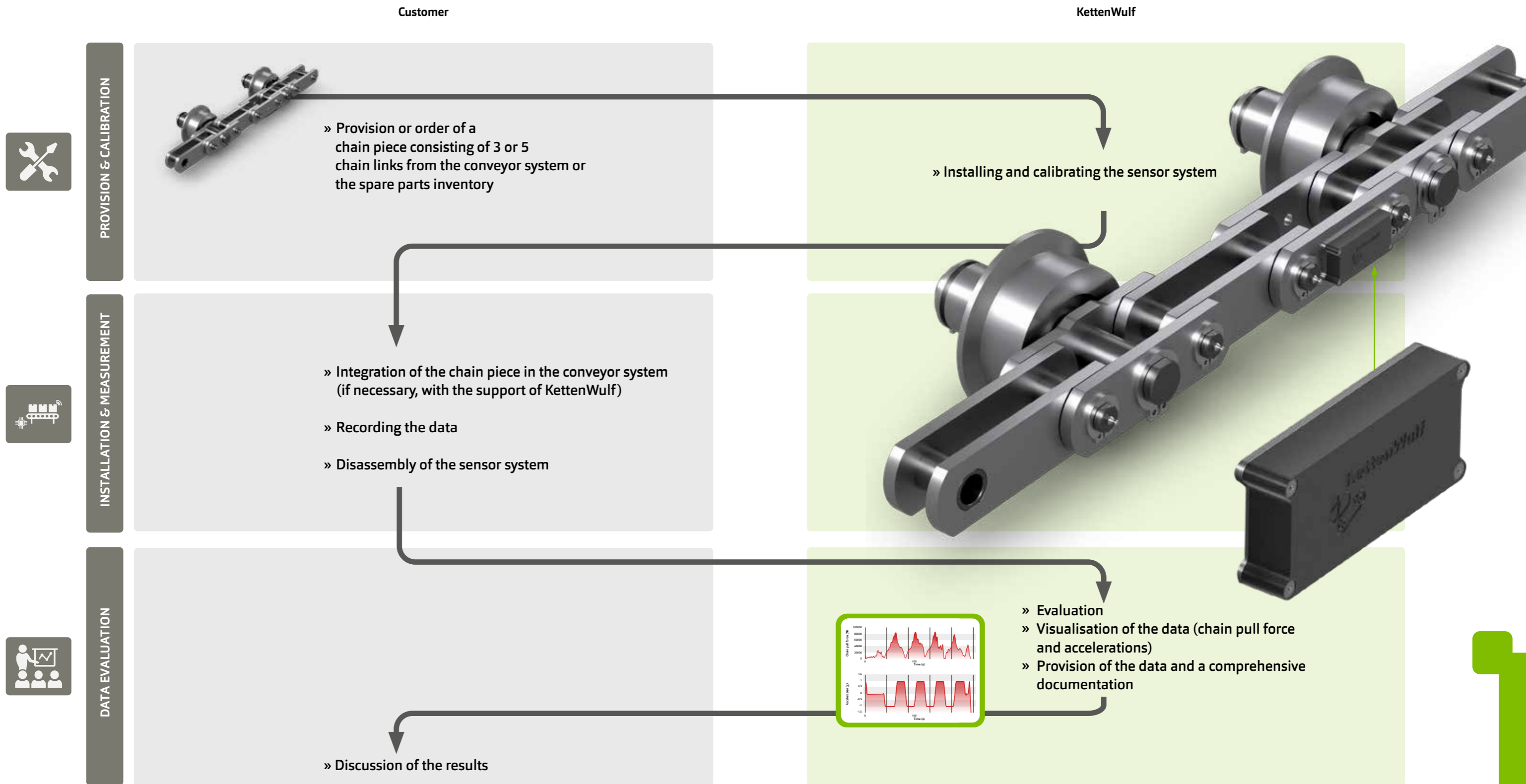
Analysis of the
chain pull forces
in graphical form
for discussion and
evaluation



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“How does the measurement of the chain pull force work?”





“Which load spectra is the conveyor chain subjected to during operation of the plant?”

The KettenWulf DCS Load Analysis System provides data for sustainable plant operation.

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Your advantages as an original equipment manufacturer (plant manufacturer)

- ✓ Recording of the chain pull force curve
- ✓ Recording of the occurring accelerations and rotation velocities
- ✓ Determination of the actual drive power required for more efficient use
- ✓ Derivation of load spectra for calculation of the service life
- ✓ Validation of the load distribution
- ✓ Analysis of problematic plants
- ✓ Enhanced understanding of the plant through practical verification of theoretical calculation & design approaches
- ✓ Plant optimisation through product improvements

Your advantages as an end user (plant operator)

- ✓ Recording of the chain pull force curve
- ✓ Recording of the occurring accelerations and rotation velocities
- ✓ Analysis of problematic plants
- ✓ Focus-oriented evaluation and analysis of the recorded data
- ✓ Derived recommendations for product improvements
- ✓ Data-based support of future decisions
- ✓ Contribution to sustainable product use and corresponding cost optimisation



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Load Analysis

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