

## **Improving process stability by advanced analytics**

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Making and shaping of steel includes variety of processes, where equipment life is typically limited by combination of abrasion, thermal stress and high forces. Predicting of equipment reliability or quality performance by means of conventional monitoring of individual variables e.g. vibration level is challenging because of variable process conditions and physical properties of goods produced.

More holistic approach, where combination of process and condition monitoring variables is analyzed by advanced tools is needed. However, an organized data management system has also to be introduced in order to ensure access to critical data. This also enables improved root cause findings and more data-driven maintenance optimization.