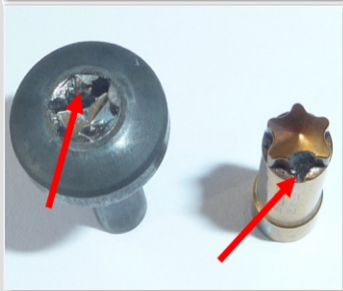


Foxmatic



- **Foxmatic** monitoring technique reacts to even the smallest changes in force signals
- works **independently** within envelope limits
- automatic drift-compensation avoids undesired nuisance machine stops
- applicable to cold formers and thread rollers
- reliable fault detection for even the smallest errors (e. g. cracked heads)
- perfect complement to the proven **Mandonic** auto envelope technique
- very easy to use - self adjusting
- available for our models **SK 400** to **SK 800**

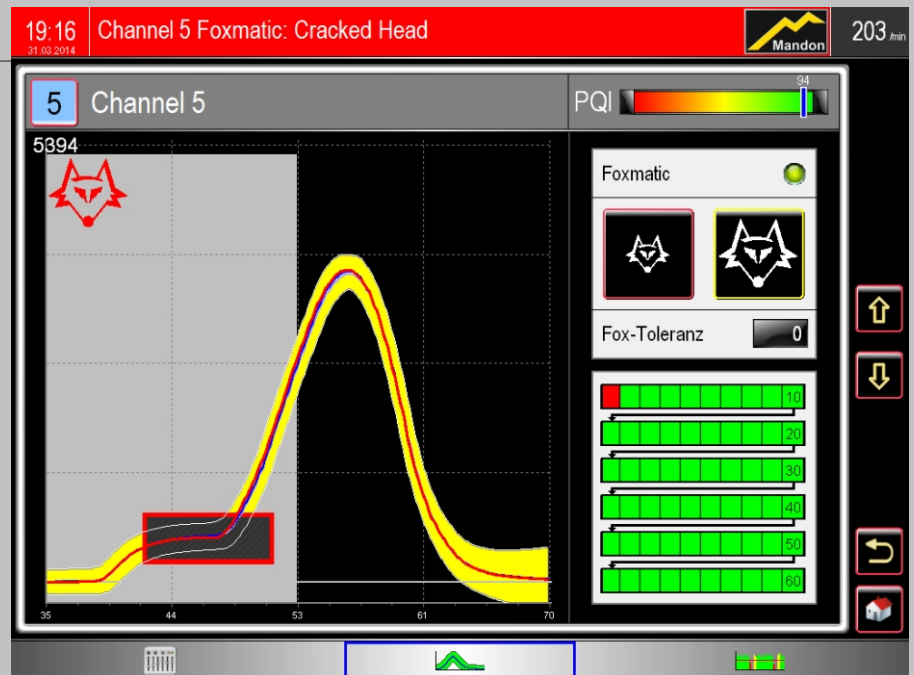
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Cracked heads

Foxmatic uses the latest pattern recognition procedures to detect random faults such as cracked heads.

Based on its new drift compensation technique, **Foxmatic** recognizes the “fingerprint” of the error and can tell the difference between errors and normal process variation.

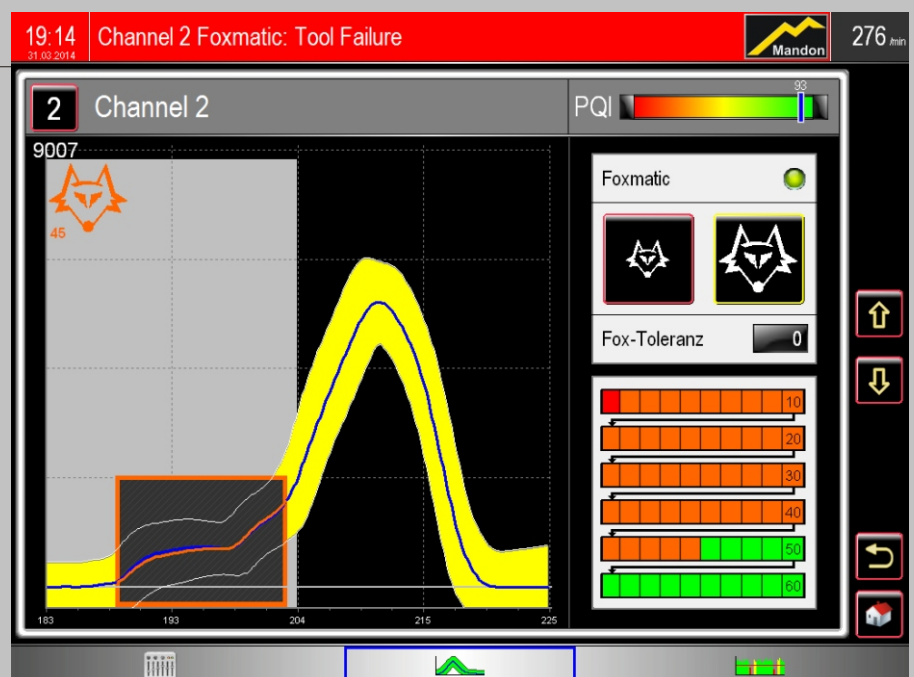


In this example a cracked head was detected although the envelope limits were not exceeded. **Foxmatic** works independently from the standard envelope analysis. Many errors can be detected even with coarse envelope limits.

Tool Failures

Foxmatic reacts to even the smallest changes in the force signals. When a suspicious signal repeats itself over the next few cycles, the machine will be stopped. Alternatively, a sorting signal can be given to divert the parts.

The error queue offers a review of the last sixty (60) forming cycles leading up to the **Foxmatic** error. All historical force readings (per station) are logged for review.



In this example, despite the wide envelope setting, **Foxmatic** has recognized the tiny signal changes caused by a tool chip and stopped the machine. The newly developed drift compensation algorithm ensures that undesired machine stops are kept at a minimum.