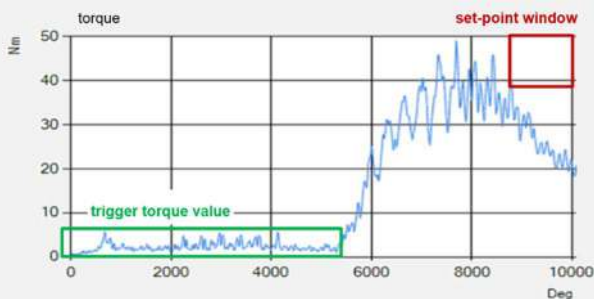# Analyser® AI system for robust products & stable processes

The Analyser® is an engineering AI system with an internationally patented algorithm. The special features of the Analyser® are:

- It is used across industries in development, production and assembly.
- It processes all product validation and process curves as well as individual values from sensor data.
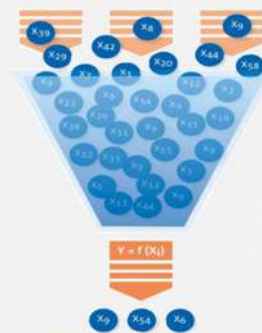- It does not require Big Data, but also works with manageable samples.

The Analyser® comprises two modules:

Production Assistant	Predictive Modeller

The 24/7 always-on-site solution for production issues

- Recognizes failure types automatically and provides failure causes, solutions and measures in real time
- The employees can immediately take targeted measures and prevent further rejects
- Self-learning module so that successful measures can be reported back to the Analyser®

Analyzes causes of cost and quality problems

- Uncovering unknown cause-effect relationships between quality characteristics Y_n and influencing variables X_i
  → Generation of transfer function $Y_n = f(X_i)$
- Transfer function is used to control and regulate the product and process parameters for robust products and stable processes
- Prediction model for Predictive Maintenance und Predictive Analytics

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- ✓ Fast and targeted measures instead of costly production stops
- ✓ Support of employees in real time
- ✓ Reduction of rejects, failure and rework costs, as well as warranty risks
- ✓ Support in process parameterization for product start-ups and prototypes

- ✓ Increased efficiency in resources, materials and energy
- ✓ Reduction of rejects, failure and rework costs, as well as warranty risks
- ✓ Reduction of product manufacturing costs by opening tolerances
- ✓ Securing development and series start-up

Award-winning resource efficiency

Contech Software & Engineering GmbH has been awarded the Bavarian Resource Efficiency Prize 2021 by the Bavarian Ministry of the Environment for the savings in resources, materials and energy of up to 60 percent that can be achieved with the Analyser®.

Application examples

Causes of failure and warranty risks are not recognized, measures are in vain

Failures in development, series start-up and production are not recognized (quickly enough)

Cost-intensive production stops & non-transparent corporate knowledge

Increased costs for failures, rework and warranty

Rejects lead to increased resource, material and energy consumption

Manufacturing costs are too high for competitiveness

Further consulting options

We uncover your cause-effect relationships
We offer you the possibility to analyze your topics and root causes based on your data in advance free of charge.
Simply contact the Executive Assistant::
stefanie.marzocca@mts-contech.com

Do you have any questions?
Simply arrange a free phone call with our experts:
+49 (0) 8141-88 84 0312

Our workshop day
We support you in your digitization project: We determine your first multiple prediction models so that you can actively control your influencing variables for sustainable quality and cost reduction.