HEXAGON

eMMA version 3.4.0.

Integrated AI for advanced analysis and forecasting

This version of eMMA has been released with some significant innovations in terms of automatic prediction (AI) functionality. Customers get the ability to learn more about processes in terms of stability and potential tolerance deviation. With an automatically generated forecast they are able to act before real problems occur.

Whats new in version 3.4.0.

Key features and enhancements

New AI integration with automated time-series analysis and forecasting (TSAF)

This prediction of feature and characteristics behaviour is possible thanks to the integration of TSAF (Time Series Analysis and Forecasting) artificial intelligence technology specially tailored for the analysis of manufacturing data. The system learns from the previous measurements and gives an accurate prediction of the future trend of measurement results: **automated, quick and accurate.**

This is a fundamental step towards **autonomous processes in quality control.**

Ensure stability of production process through automated forecasting

The TSAF technology embedded within Q-DAS eMMA 3.4.0. identifies and analyses outliers, change points, and data gaps, etc. to compute an accurate forecast. Users can then plan and adjust their processes rather than react. As a result, process instabilities can be controlled and prevented in advance, resulting in a **reduction in rework and scrap parts, which will lower costs.**

Using AI to make the right decisions in time to achieve better process KPIs

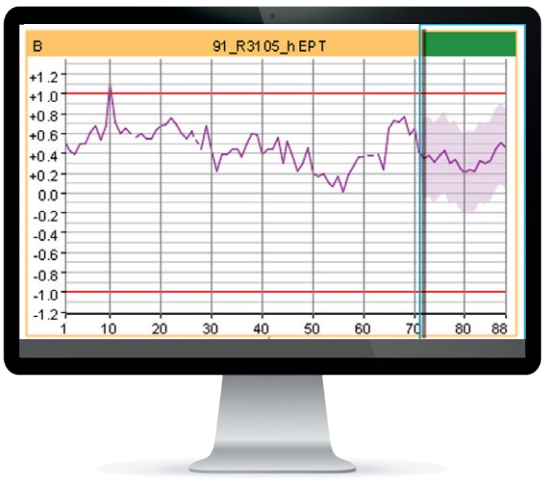
Learn more about your processes, discovering which are stable and which need closer observation. Now you can see, in real time, when a process goes out of tolerance. You'll know precisely when and where problems will occur.

Receiving clear information about how their KPIs will look tomorrow or next week and can make decisions accordingly.

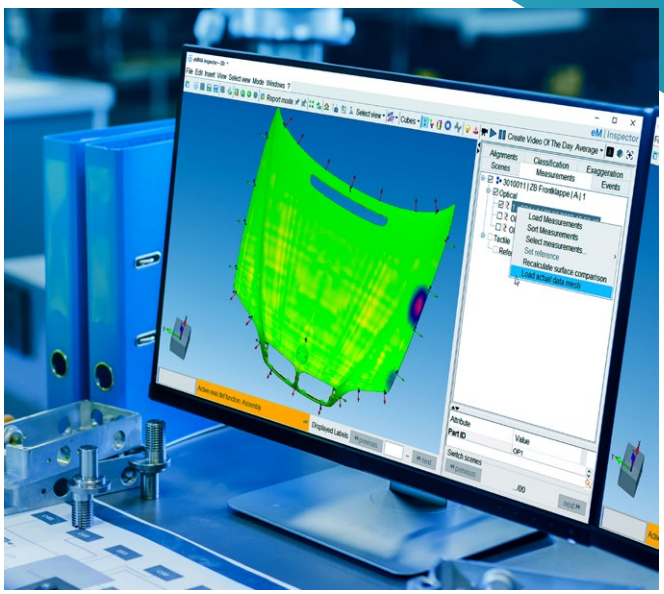
Easy initialisation and setup

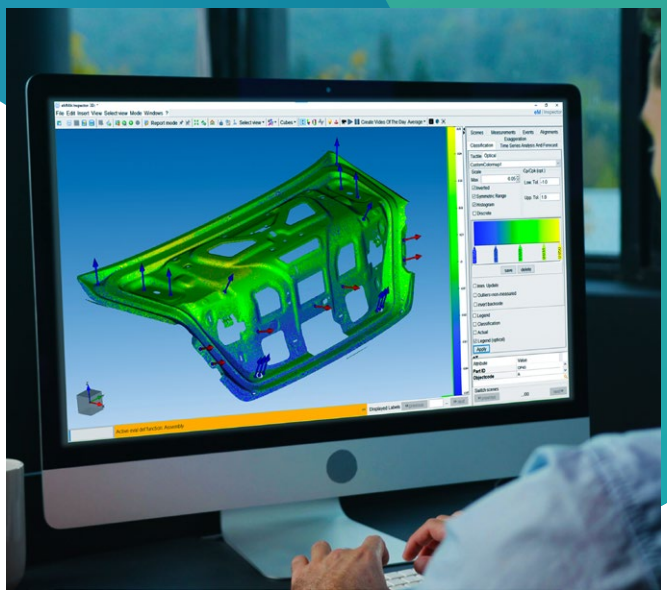
Setting up and initialising the AI machine is very simple and can be done quickly. After specifying the number of points to be predicted, you set the time range. By specifying the desired confidence range for the predicted values, you will immediately get the prediction.

Spot potential problems before they occur with real time monitoring and prediction of key performance indicators.



The forecasted data set and corresponding deviation classification can be easily identified in the trend charts at the right hand side of each feature label.





Usability and visualisation enhancements

Q-DAS eMMA core modules have been enhanced with additional functionality that enables more focused reporting and analysis for feature-based and mesh-based measurements. The latest update of the Q-DAS eMMA GUI offers more intuitive operations and quick access to key functions, allowing users to remain focused on actual decision-making.

New: More control for the evaluation of meshes

- Easy and quick recalculation of surface deviations including the display of actual geometries. No more measurement reload.
- New parameters for fine configuration of mesh import. Plausibility control, validation of normal direction, and calculation accuracy allow users to tune import parameters according to their needs.

Customer Benefits

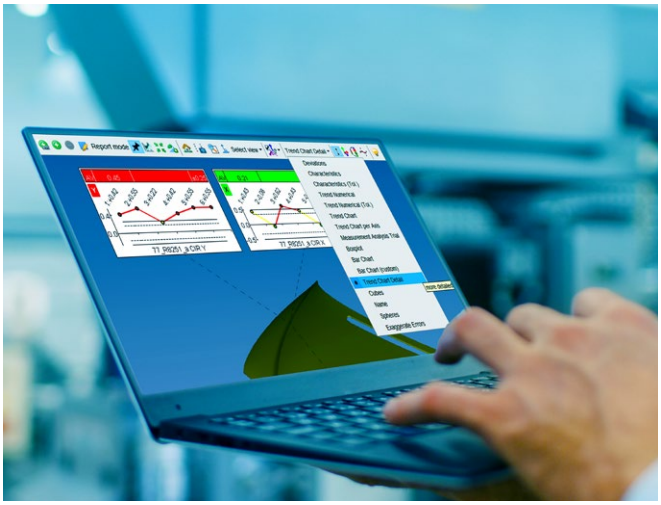
- Identify problems before they occur
- Take correction actions in advance
- Ensure process capability (cp) goals are achieved
- Achieve better process KPIs

New: More customisation options for meshes

- Custom definition of colour maps for the classification of mesh-based results (optical measurements/ simulations) to create a visual representation tailored to specific data sets and accelerate decision-making.

More diagrams for detailed measurement analysis

- The new “Trend chart detail” label in the Q-DAS eMMA analysis modules can display up to 30 measurement deviations. This shows the overall trend for each characteristic per dimension in a clear graphical way.



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Our technologies are shaping production and people-related ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

Hexagon's Manufacturing Intelligence division provides solutions that use data from design and engineering, production and metrology to make manufacturing smarter. For more information, visit hexagonmi.com.

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