

Q-DAS Version 13 Statistical Software

Follow the new way

Version 13 of Q-DAS Statistical Software does not only offer many performance, usability and interface enhancements, but most notably new functionalities and modules entering new fields of application.

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A network of solutions manages and visualises data in a central web dashboard

New subscription-based licence model

Q-DAS Version 13 of statistical software switches to a flexible licencing model supporting the current option to purchase software and introducing a new subscription model. From now on, Q-DAS thus offers a new flexible and cost-efficient licensing model. There are products and options that are available for both models; however, there are also products/option whose licences are only provided based on a subscription.

Q-DAS DS - Dynamic Sampling reduces inspection scope

Q-DAS DS Dynamic Sampling is an option helping operators already running O-QIS processes to reduce the sampling frequency. Assuming an initial inspection interval to be adjusted per characteristic when you create an inspection order, dynamic sampling is supposed to change the inspection interval in a production order until it is reduced to a reasonable optimum. However, the characteristic's quality level needs to remain acceptable. In case the quality of the characteristic suffers, the settings are reset to the basic qualification.

Machine Learning provides best suitable distribution time model

Based on an evaluation strategy in the Process Capability Analysis module, version 13 is able to find the suitable distribution time model even by using a neural network. The main advantage is a quicker and more precise definition of the distribution time model.

Intelligent algorithms identify correlations

The newly integrated Python Engine is able to find correlations between measured values and additional data automatically in Q-DAS Statistical Software. Provided that data sets include additional data, a reporting job uses the Python Engine to analyse them and to identify a positive or negative correlation. The software can thus establish a correlation between a characteristic and a tool. All results are provided in a standard report.

Q-DAS 3D CAD for generating inspection plans directly

The Q-DAS 3D CAD software generates inspection plans directly from the CAD model. Users are able to customise the generated inspection plans and to transfer them directly to PC-DMIS in order to create a part routine.

Q-DAS RTM Web monitors specific tasks

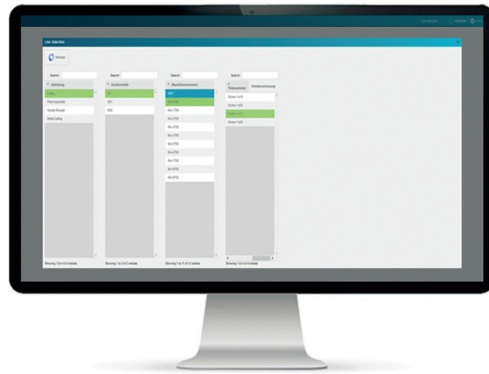
The browser-based real-time database monitoring controls and visualises freely definable attributes, e.g. a part or a production process, in a web front end. The Q-DAS Web product loads the data cyclically from the database and updates the single graphics, tables and views.



Q-DAS RTM Web

Q-DAS qs-STAT Web Line Selection makes it easier to select data

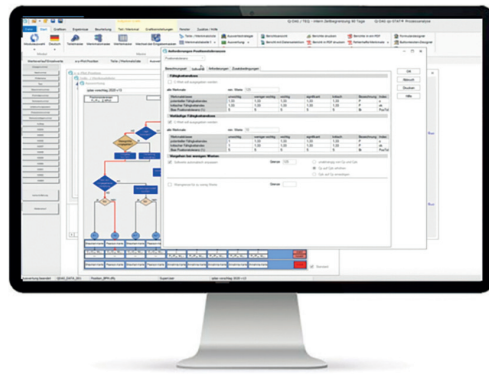
The Line Selection option in the front end of Q-DAS qs-STAT Web helps users select data and data sets more easily. All selection criteria can be adjusted individually allowing for a quick and intuitive top-down navigation.



Loading parts by applying the Line Selection

Innovations in Q-DAS qs-STAT Web and Q-DAS solara.MP Web

Version 13 of the known Web products Q-DAS solara.MP Web and Q-DAS qs-STAT Web offers some new features. The main features are an optimised program start, a dynamic ribbon and the option to create new data sets directly in the Q-DAS Web products. Version 13 allows users of Q-DAS qs-STAT Web to create an entirely new data set, to add or delete characteristics and to save data as a file or to the database. Additionally, version 13 improves the usability and performance, e.g. by offering a new “help” function.



Support of polar coordinates as an alternative to Cartesian coordinates

Focus on positional tolerances

Version 13 makes it easier to work with positional tolerances since it allows for an evaluation based on polar coordinates. The software even satisfies the requirements of multi-variate characteristics by providing an evaluation strategy including calculation and evaluation criteria for unbalance, rectangularity and concentricity.



Further updates

Features

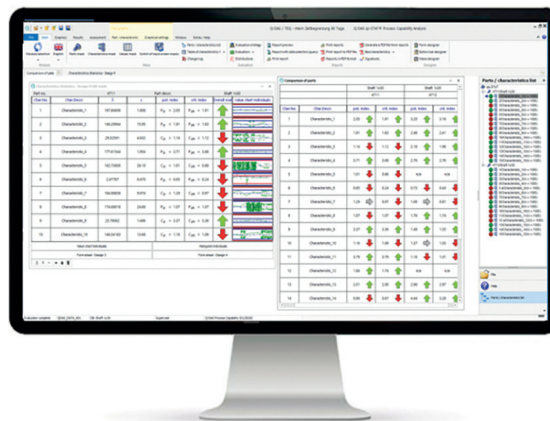
Plenty of new functionalities became part of V13 Q-DAS Statistical Software. As an example, Q-DAS Form Designer provides the option to create a table of contents including hyperlinks for a report. Moreover, the manual saving of data enables users to define key fields.

Usability

To keep track of the data and their quality level, version 13 features new and enhanced graphics. A bar chart now shows the characteristics of measured value attributes and additional data. There are protocols of measured values and additional data based on a specific additional datum, e.g. all measured values including a specific event or text. And last but not least, the measuring point overview uses groups to control the displayed characteristics. A direct comparison of the same characteristics in different inspection plans is feasible.

Performance

The performance enhancements in version 13 of Q-DAS Statistical Software particularly cater to dealing with huge data volumes. Graphics and report previews are generated more quickly and the display of the characteristics list as well as the automated creation of zipped archive files have been optimised for working with plenty of characteristics or measured values. Individual processes reading data from the database are easier to adjust and guarantee short access times.



Comparing characteristics of two different inspection plans

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

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