NX Check-Mate/NX Quick Check

Knowledge driven validation – improving the quality and processes of product designs and data through automated checking

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Summary

Knowledge driven validation is a revolutionary approach to product validation that encompasses the effective capture, management and re-use of knowledge within your company, allowing you to significantly improve your products and processes. Two products based on NX Knowledge Fusion technology, NX Check-Mate and NX Quick Check, provide automated, customizable tools that help companies proactively improve product quality.

Features

Validation integrated with Unigraphics NX

Model quality checking

Assembly checking

File checking

Drawing checking

Extensive library of standard checks

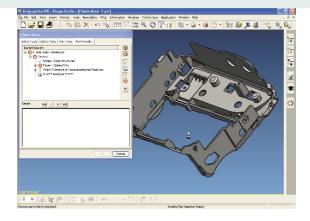
Authoring capabilities for custom checks

HTML reporting

Interactive or batch mode checking

Supported by Teamcenter® Engineering

Validation features for mass, distance, size, or expression which can be embedded in the model



Next-generation validation

NX Check-Mate and NX Quick Check simplify the work of design engineers by automatically ensuring that CAD data and product designs adhere to industry, customer, or company standards. With continuous monitoring of designs as they develop, Check-Mate and Quick Check help engineering professionals understand how design changes affect the integrity of the product. With these tools, companies can set up cus-

tomized design checking to ensure manufacturability, or to manage outsourced projects so that they comply with standards and practices of their own companies. The end result is higher-quality products developed more quickly and at lower cost.

Traditional validation tools inadequately address product and process complexities that designers face daily. Check-Mate and Quick Check use the embedded knowledge technology in Unigraphics® NX to capture standard processes and design methods, and re-use them in automated checks to improve the quality and consistency of decisions. Companies can add, customize, and update checking rules at any stage of product development to expand the company knowledge base and achieve continuous improvement.

Enhancing product data quality with Check-Mate

Unigraphics NX uniquely addresses file, geometry, assembly, and drawing data quality with Check-Mate, which checks CAD files and models for conformance to company, industry, or customer standards. Check-Mate includes tools for creating knowledge-based rules and profiles.



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Benefits

Reduces costs related to:

- · Engineering change orders
- Warranty repairs
- Product recalls

Ensures adherence to company standards

Eliminates costly and time consuming corrections downstream

Identifies non-compliance to company standards that hinders data sharing

Alerts designers to inconsistencies in CAD model geometry that can cause manufacturing problems and delays

Warns of consequences caused by design changes

Validation is automatic, rather than an afterthought

Customizable reporting provides engineering data quality metrics that support company-wide quality and continuous improvement initiatives.

Standard and custom checks

Check-Mate provides many out-of-the-box standard checks. In addition, Check-Mate Author gives your organization the flexibility to convert your knowledge of industry specific, corporate, or customer standards into checks that are incorporated within the validation process. With these checks, quality requirements are clearly defined and documented, resulting in unambiguous communication and fewer interpretation errors throughout product development.

Automating validation

Check-Mate's automated validation eliminates error-prone processes that require designers to remember standards, require-

ments, and validation procedures. Design validation can be performed quickly and effortlessly, allowing designers to discover problems earlier in product development. It also gives them the opportunity to make changes at an earlier time where cost can are more manageable.

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Reporting

Collecting data is worthless unless you are able to view and examine the information so that it can be of use. The results from Check-Mate can then be used to identify training needs, to evaluate suppliers' performance, or to recognize improvement opportunities. Check-Mate's powerful reporting tools allow you to document and analyze the information necessary for assessing the progress of your quality initiatives. Reports can be tailored to view quality metrics data in various formats including tables, charts or graphs. Tailored reports can then be exported to web-ready HTML for ease of distribution throughout the organization.

Monitoring design criteria with Quick Check

Quick Check provides interactive validation that is fully integrated with the CAD design process. Companies can use Quick Check to monitor mass, critical dimensions and other parameters in part and assembly models, envoking checks automatically at time of design change. Quick Check provides a simple way to capture engineering expertise in customized checks that warn and guide users with clear messages whenever the checking criteria are not met. With persistent monitoring of key design parameters, Quick Check helps ensure product quality by detecting errors immediately.

Knowledge captured and built-into your models

Quick Check allows designers to embed expertise directly into the model as knowledge features. Therefore, no matter where the CAD model is used, the vital information needed to secure its integrity is embedded within it. This unique capability tracks critical performance parameters and warns designers immediately when changes may violate the integrity of the model.



Contact PLM Solutions Americas 800-498-5351 Europe 44-1276-705170 Asia-Pacific 852-2230-3333 eds.com

