BCT Inspector

Module for the integration of quality management and first article inspection into the NX and Teamcenter product lifecycle management (PLM) environment

In the product development process a multitude of data is generated that is required for quality management. It contains the critical knowledge for the continuous improvement of the product and the manufacturing processes. This data is critical for the competitiveness and success of any company manufacturing a product.

BCT Inspector is the tool that facilitates the identification and extraction of this valuable knowledge from the development environment and makes the data available throughout the entire lifecycle of the part. The data is available for quality assurance processes throughout the complete supply chain. BCT Inspector provides this data using up to 80% less time than manual methods. While eliminating manual data entry errors BCT Inspector gives the data unique identifiers that never change for the life of the part. This provides a permanent link to the characteristics through every change and modification. This process is supported for legacy raster data, 2D drawings and 3D model information. The BCT Inspector software supports a smooth migration from traditional drawing based processes to model based information.

BCT Inspector supports multiple CAD systems as well as neutral drawing formats. Not only design data from NX but also Solid Edge and CATIA CAD data as well as neutral formats (like tif or pdf) can be processed by Inspector. The BCT Inspector product family provides a solution for identifying key product data from CAD models and drawings as well as CAD independent drawing formats. The product data is available to a wide circle of users, engineering, design/drafting, quality, supply chain, and it provides a linked, revision controlled process for all of the design data over the lifecycle of a part.

Basic functionality:

- Automatic extraction of characteristics (dimensions, GD&T tolerances, ISO tolerances, surface symbols, textual information and model based PMI and GD&T data) from raster drawings, CAD drawings and models

- Generation of ballooned drawings

- Automatic linking of dimensions to the corresponding 3D geometry

- Automatic extraction of a STEP model*) linked to the characteristic list for supporting the quality plan and inspection processes according to VDA 6.4, DIN EN ISO ISO 9001 - 9004 and QS 9000 TES

- Interfaces for CMMs and offline programming software based on the Q-DAS and AS9102 standards

- Configurable software to support company specific characteristic management requirements for OEMs and suppliers

- Revision control by saving all data directly in the CAD model or in Teamcenter as named references or in a specific data set

- Optional CAD independent viewer providing access to linked characteristic lists and drawings for change verification and reference viewing

*) Requires NX interface license