

Articles In This Newsletter

- CheckMate 10 Scheduled for release
- Dimensional Planner
- Die Developer Package
- CheckMate 3D Calculations versus Raw CMM Data
- CheckMate 10 – New Hardware Requirements
- Origin Webinar Sessions

To print this newsletter, please go to http://www.origin.com/public/newsletters_entry.htm and download the pdf version.

To Unsubscribe to this newsletter select Mailto and place **unsubscribe checkmate** in body of message.

[Mailto:](#)

CheckMate 10 - Scheduled for Release

CheckMate 10 is running a few weeks behind schedule in order to include some major enhancements along with documentation. CheckMate 10 is currently scheduled to ship the end of April. We at Origin believe you will agree it will be worth the wait. To highlight just a few of these enhancements are the new picking feature, feature selection mode, the new Reporting Browser along with new products Dimensional Planner and Die Developer.

Picking Options:

- Classic Picking selected – For example, make your picks for surface points, trims, and planes and then pick the surface or face.
- Easy Picking selected – For example, make your picks for surface points, trims, planes <Enter> for measurements. CheckMate will automatically default to Classic picking on some features such as line.

Feature Selection Mode:

Feature Selection Mode allows you to use 1 pick to measure a feature.

A single pick will be recognized as a surface, trim, hole, circle outer or slot inner. If that is NOT what you want you can delete the last item measured with D. You can force the type of the next item to be measured by choosing, for example, Y for cylinder, L for line, etc.

Reporting Browser

Following are some Reporting Browser capabilities.

- browser capability and what that means – ease of use for selecting and grouping information for easier more effective presentation of dimensional information
- functionality that was previously only available in CM SoftFit RC Browser is now available in CM Reporting – more value for money
- side by side and interleaved of multiple-groups and what that means - before and after pictorial trend analysis for problem identification and easy communication of trend information for managers and customers
- thresholds for go and no-go conditions – ease of use and productivity, quickly determine what threshold has been or is about to be breached and start the process of what to do about it
- restructuring of the underlying data base – increases the potential for growing capabilities of CM into assembly analysis and other types of dimensional problem solving solutions

Dimensional Planner

Dimensional planner is a user friendly CAD interface designed to capture the dimensional information discussed by such stakeholders as Tooling Engineers, APQP personnel, Quality personnel, Quality Managers, Manufacturing Engineers etc. very early on in the new part process.

The intent is to capture and standardize the naming of critical key features by stakeholder categories. This information is then sent on to downstream users who are part of the build and first article process. For example a standard package of these key features (including tolerances), CAD drawings and buyoff specifications would be sent to Tool suppliers, Gage and Fixture Manufactures, Quality departments and the necessary Tooling and Manufacturing engineers. This application is not intended to be used to develop a complete inspection plan for PPAP acceptance, or a program to run an inspection device like a CMM.

Captured are critical features that need tracking by these various stakeholders. Information can be maintained by up to 9 categories thus facilitate easy monitoring during the build and manufacturing process.

Dimensional and Model information about these features is then sent to the suppliers in Industry standard formats, who will use this information to build tools, fixtures and gages. Buyoffs, will include these features, tolerances, and process capability. Measurement results can cross-correlated owing to a standard label attached to the features during the capture process.

Stakeholders such as Tooling Engineers can have their tool suppliers send electronically, measured results taken during the tool build. After viewing these results with CheckMate Reporting and Analysis they can decide if changes will be necessary to the tool if these features are proving to be out of spec or more important that the process is not in control. All this accomplished without having to travel to verify the tool.

Die Developer Package

Origin CheckMate can be used to automate the development of the blanking profile of 3D parts. The process consists of using a Blank development program like FASTBLANK to generate the blank to design the die from. However, this blank while a good start will need to be adjusted after the first run of parts has been made. This process consists of measuring the first 3D parts and adjusting then 2D blank. This process is very tedious and can result in a number of iterations.

CheckMate can be used to assist this process and eliminate most of the iterations. CheckMate can read the data created by the blank programs and generate a 3D trim measurement program for a CMM to measure. Once a sample of these parts has been measured and the resulting measurements loaded back into CheckMate and analyzed a new 2D blank is created from the original BLANK produced by the blanking package.

The four phases in blank development are:

1. Generation of the starting blank using Blank and Die simulation software
2. Generation of Measurement part programs.
3. Analysis of the measured results
4. Generation of an adjusted blank.

CheckMate Pro Users will find a new Die Developer Toolbar. Please see Die Developer Press Release:

http://www.origin.com/public/press07_18_05.htm

CheckMate 3D Calculations versus Raw CMM Data

CheckMate 3D Calculations versus Raw CMM Data provides a short pictorial guide to CheckMate true position and vector deviation calculations based on real customer data. It should help clear up confusion on why the numbers in CheckMate reports don't appear to match those in the CMM report. To view this document, please visit www.origin.com and select **CM Calculations** on the front page.

CheckMate 10 New Hardware Requirements

CheckMate 10 Installation:

CheckMate 10 will be shipped on a DVD that will contain all software required for this release including Inventor Series 10, so a DVD reader will be required for installation.

Record Your Support Request

It is recommended you have a sound card and a headset with a microphone for CheckMate 10. This will give you the ability to record support issues or procedures that you need assistance with. You can then upload the recording for Origin's Support Team. There are times it is much easier visually showing while explaining the issue rather than just trying to explain in an email or conversation. You will find this option under the Help menu once in CheckMate.

Origin Webinar Sessions

Any software package or product is only as superior as the technical support that stands behind it. The best software in the world will collapse to its knees if it doesn't provide the technical support to help you use the product and enhance your skills. Basic training is required, but how can you hone your skills from there. Without getting to "the next level", critical techniques and time saving procedures are not being taken advantage of by a lot of companies. Origin is dedicated to providing quality support to their customers taking them to that next level.

Keep in mind that webinars do NOT replace standard and custom training but they do enhance the skills of existing users that have a good understanding of the software. They can also make a user aware of all that is available so they can justify advance training.

The Webinar Sessions is an important support tool for our customers with an annual support plan. If you have an area you are struggling with or would like to investigate, please email sales@origin.com with your request for a Webinar topic. The topic needs to be something that can be covered in approximately 1 hour.