



Automotive Successes



Ford Motor Company



In 2002 Ford Motor Company implemented CM4D at all its assembly and stamping plants across North America, including more than 30 plants. Since that time Ford has achieved remarkable gains in product quality, supplanting Toyota in 2007 as the “leader of the quality pack”. In the first half of 2007, Ford **reduced its warranty costs by \$700 Million**. Vice President of Global Manufacturing, Joe Hinrichs, attributes this savings in part to “the use of computer aided manufacturing systems.”

Ford’s experience with CM4D in North America has been so positive that it has **now selected CM4D to be Ford Motor Company’s global system for Measurement Data Management**, including the Asia/Pacific region, Europe, South America and Africa.

The Ford global plants will all be supported from a single central Ford location in the US. All templates are developed centrally, and all the software is installed and managed centrally.

Honda of America



HONDA

In 2004 Honda of America implemented CM4D as an enterprise solution. Immediately thereafter Honda experienced a significant reduction in problems related to part quality, **achieving an 85% reduction in build issues** on the 2007 Accord vehicle program. This year, two of Honda’s vehicles (CR-V and Ridgeline) **were ranked highest in their segments in the Jd powers initial quality study, and one of it’s US plants (East Liberty, Ohio) “received a coveted**

Gold Plant award, ranking it as the top factory in the Americas.”

Honda is unique in the way it works with its suppliers to monitor incoming product. They have designed a highly organized system in which CM4D is used to analyze supplier processes so that their tooling is adjusted before parts are shipped in order to ensure consistency of supplier parts.

Because of the success of this system, QMC was awarded with a purchase order in 2008 to implement CM4D software at Honda’s newest plant in North America, in Indiana, USA.

Volvo Car



Volvo Car implemented CM4D software as an enterprise solution in 2001 across its three major facilities in Europe and 2 plants in Asia. In 2008, they implemented it at an additional facility in Chongqing, China. Volvo is notable for its extensive use of the CM4D Interactive interface, which has allowed them to achieve an almost paperless system for quality analysis. With **over 1,000 registered users of that interface globally**, Volvo uses CM4D Interactive as a plant-floor-level analysis tool.

Volvo is also notable for its practice of incorporating real historical quality data into all aspects of its operations, including Purchasing and New Product Design.

Volvo uses the system to monitor incoming data from approximately 40 separate suppliers, giving the suppliers regular feedback of their real quality. This system allows Volvo to greatly reduce their development time and cost of quality. In recent years, CM4D has been installed at several of Volvo’s suppliers. One of their

plants (Ghent) **has received several awards for Total Production Maintenance in recognition of the excellent work they have done using data on the shop floor to reduce waste in six key areas.**

Saab Automobile



Saab Auto also implemented CM4D in 2001, and also uses the CM 4D Interactive interface extensively for plant-floor-level quality analysis, with hundreds of registered users of

that interface.

Saab is most notable for its extensive use of CM4D's "Alignment" module to perform sub-

datum transformations. This capability of CM4D has allowed Saab to eliminate hard checking fixtures used for analyzing windshield and other openings. Privately, Saab claims that **this process alone saves them some millions of dollars (USD) for each vehicle program.**

As a part of the General Motors organization, Saab was deeply involved in the development of the requirements for the competitive Siemens UGS solution, and is currently able to use that system. However, Saab has continued to maintain QMC's CM4D software and **has indicated that it will continue to use this software for Measurement Data Analysis in the future.**

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