

### **Faster & More Accurate Data Analysis at John Deere Dubuque with STATISTICA Enterprise-wide SPC System (SEWSS)**

**BACKGROUND.** One of the world's oldest and most respected enterprises, Deere & Company creates smart innovations in the form of advanced machines, services, and concepts, for customers on farmsites, worksites, and homesites worldwide. Deere is a global leader in providing equipment for use in agriculture, construction, forestry, and lawn and turf care. Additionally, the company is engaged in a variety of complimentary businesses that support equipment customers.

**CHALLENGE.** Performing capability studies had always been a way of doing business at Deere. It required too much time for data analysis and the resulting control charts could not be manipulated to extract the information needed.

**THE DECISION TO USE STATISTICA.** The versatility and flexibility of *STATISTICA* was one of the main reasons for its selection. *STATISTICA* offers a comprehensive array of tools for statistical analysis. Excellent service, support, and broad based statistical analysis capability were the major advantages that *STATISTICA* had over others considered. The decision to select *STATISTICA* at John Deere was unanimous.

**SOLUTION.** Using *STATISTICA*'s interactive quality control charts has resolved the tolerance analysis issues at Deere surrounding performing capability studies. Now, during capability study meetings, the outcome of the change of tolerances and sometimes the nominal dimensions on the capability indices can be demonstrated to design and manufacturing engineers. Using *STATISTICA* with an interface software developed by Deere & StatSoft has solved the requirements of SPC charts for normal production run parts. Control charts are now plotted as the data is collected from the Coordinate Measuring Machines (CMMs). In addition is real-time monitoring, data from MS Excel spreadsheets can be imported and extensive statistical analysis can be conducted.

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- Navaid Ahmed, Quality Engineer



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