

Want the most advanced and sophisticated SPC analysis tool in the world? Then check out *InfinityQS™ SPC Enterprise Edition*. *InfinityQS™ SPC Enterprise* is revered by quality professionals for its remarkable array of statistical analyses and unmatched reporting capabilities. Like *InfinityQS™ SPC Extended*, *InfinityQS™ SPC Enterprise* supports shop floor data entry, but *Enterprise* provides advanced functionality, reporting and analyses that are a level above *SPC Extended*.

### Our Most Advanced, Feature-Packed SPC Software

*InfinityQS™ SPC Enterprise* is the top-of-the-line *InfinityQS™ SPC* software. *Enterprise* supports all of the functionality of our *InfinityQS™ SPC Standard*, and *SPC Extended* plus these additional tools: SPC Monitor (for remote monitoring of active shop floor control charts), X-Y Correlation Plots, Pre-Control, True Position Charts, Autocorrelation Analysis, Normal Probability Plots, and Q-Q Plots. *InfinityQS™ SPC Enterprise* is a valuable tool not just for the quality professionals, but also for the shop floor when operators need advanced SPC capabilities. Additionally, because all *InfinityQS™* applications are 100% ODBC compliant, you can run *InfinityQS™ SPC Enterprise* on your choice of databases.

### Advanced Control Charting Tools

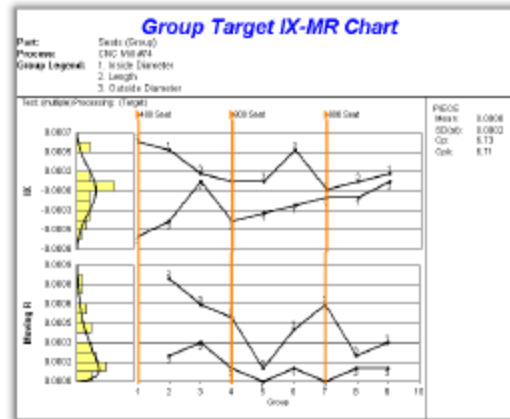
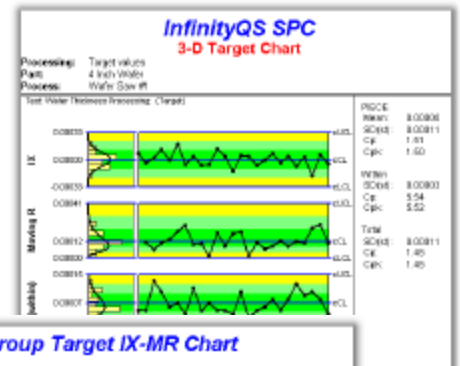
Like all *InfinityQS™ SPC* software, *Extended* is designed to meet standard shop floor data entry and analysis requirements, as well as address the challenges of small production runs, multiple characteristics and limited data collection opportunities. Like *InfinityQS™ SPC Standard* and *Extended* packages, *Enterprise* supports over 300 different control charts for both attribute and variables data. We can help you model and effectively analyze virtually *any* manufacturing situation, regardless of how complex or advanced. Be assured that there is a control chart for your unique situations and manufacturing processes. A brief list of supported control chart options includes: Traditional, Target, Nominal, Short Run, Standardized, Group, 3-D, Wandering Mean, EWMA, CUSUM, DPMO, and PPM.

### SPC Monitor

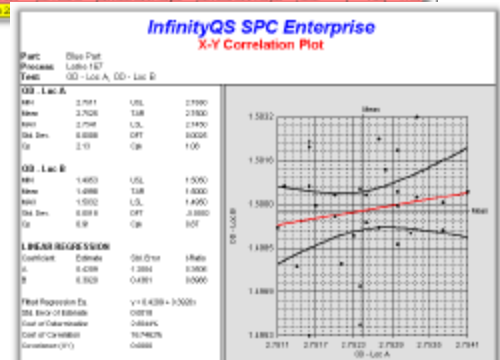
SPC Monitor allows users to remotely view active control charts on the shop floor. Each row is color-coded with either green, yellow or red, depending on its state of control. Each row can be configured to display not only the Part, Process and Test features, but also the Last Alarm violation, type of alarm, time of last data entry, subgroups, pieces, mean, range, estimated standard deviation, Cp, Cpk, Cpl, Cpu, Cpm, Defect Code, Target, USL and LSL.

### X-Y Correlation Plots

Sometimes test characteristics are correlated with each other. To determine the degree of correlation, *InfinityQS™ SPC Enterprise* allows users to create scatter plots to assess the relationship between X and Y variables. X-Y correlation plots create a visual display of the two tests, plus a report is created. The report displays



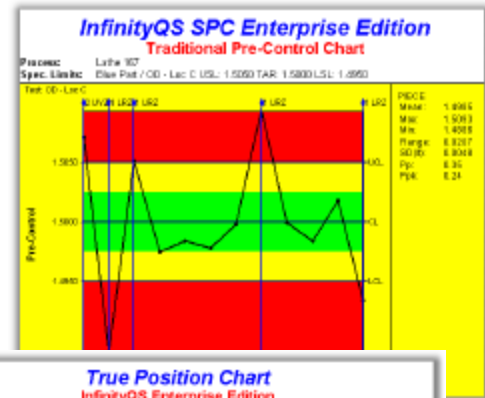
Part	Process	Test	Last Entry	Last Alarm	Alarm	Cp	Cpk
Yellow Part	Lathe 107	OD - Loc B	201308 07 18:24 pm	No Alarm		1.82	1.91
Yellow Part	Lathe 107	OD - Loc A	201308 07 18:24 pm	No Alarm		4.11	2.24
Yellow Part	Lathe 107	OD - Loc C	201308 07 18:24 pm	07 18:58 06 11:24 pm	4-CL	2.75	1.14
Yellow Part	Lathe 107	OD - Loc B	201308 04 31 08 pm	02 13:08 04 21:58 pm	4-CL	3.17	1.08
Yellow Part	Lathe 107	OD - Loc A	201308 04 31 08 pm	No Alarm		10.89	9.02
Yellow Part	Lathe 107	OD - Loc C	201308 04 31 08 pm	02 13:08 04 21:58 pm	4-CL	1.0	1.16
Green Part	Lathe 107	OD - Loc B	201308 06 16 17 pm	No Alarm		0.91	0.08
Blue Part	Lathe 107	OD - Loc A	201308 06 16 17 pm	07 13:58 06 16 17 pm	4-CL	2.31	1.18
Blue Part	Lathe 107	OD - Loc B	201308 06 16 17 pm	No Alarm		0.91	0.41
Blue Part	Lathe 107	OD - Loc C	201308 04 31 08 pm	02 13:08 04 21:58 pm	4-CL	1.84	0.08
Blue Part	Lathe 107	OD - Loc A	201308 04 31 08 pm	02 13:08 04 21:58 pm	4-CL	1.86	-0.86
Blue Part	Lathe 107	OD - Loc B					



statistics and features for each test including MIN, MAX, Mean, Standard Deviation, Cp, Cpk, Target USL, LSL, and Deviation from Target (DFT). Additionally, a linear regression line is fitted to the correlation plot and related regression statistics are calculated including: Coefficient estimates, Standard Errors, t-Ratios, Fitted Regression Equation, Standard Error of Estimate, Coefficient of Determination, Coefficient of Correlation and Covariance (XY).

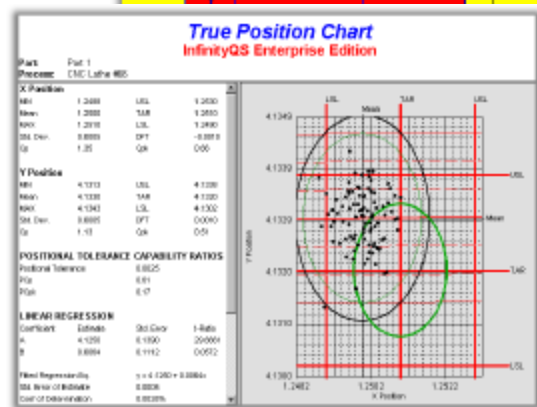
### Pre-Control Charts

Pre-Control charts allow the comparison of individual measurements to specification limits. By doing so, Pre-Control charts can be used to alert an operator to the potential for producing defective products. Pre-Control charts are designed to highlight unacceptable deviations from a desired target and are most effective when used with processes that are already in a state of statistical control with a Cpk value greater than 1.0. *InfinityQS™ Enterprise Edition* supports standard Pre-Control Alarm Rules as well as user-defined, customizable alarm rules.



### True Position Charts

True Position Charts allow *InfinityQS™ Enterprise Edition* users to evaluate the positioning of X and Y values on a polar plot. On the *InfinityQS™ Enterprise Edition* True Position Chart, users can view X and Y positional values, tolerance regions, natural variability regions, best fit line, standard error lines, confidence intervals for both average Y and individual Y, and a confidence region. *InfinityQS™ Enterprise Edition* will even allow you to make changes to the confidence level as well as the positional tolerance on the graph. The report that underlies the True Position Chart includes Positional Tolerance Capability Ratios, a linear regression line as well as underlying statistics for each set of X and Y data sets.



### Autocorrelation, Normal Probability and Q-Q Plots

When analyzing control charts, assumptions such as independence of measurements and normally distributed data are typically made. If these assumptions are not met, control limits and estimates of % fallout could be invalid. In fact, a high level of correlation can distort the performance of a Shewhart control chart and potentially increase the chances of triggering false alarms. Want to confirm your assumptions and have confidence in your predictions of fallout? No problem with *InfinityQS™ Enterprise Edition*. With *InfinityQS™ Enterprise Edition*, a data set's normality can be confirmed with Normal Probability Plots, while the Q-Q Plot can be used to determine if a process' variance and/or mean are accurately estimated. The Autocorrelation chart is used to determine the degree of a dataset's correlation with time.

