

The Quality Sourcebook's SPC Software Guide features information on companies that provide software for a wide range of applications, including statistical process control, problem solving, statistical analysis, design of experiments, gage R&R and related products. For more information on any of the products or services listed in this section, contact the companies directly. Please be sure to mention you saw their listings in *Quality Digest's* 2000 Quality Sourcebook!

Software Directory

SPC Software Matrix 110

This matrix of SPC software manufacturers contains an alphabetical listing of more than 100 software companies and distributors and nearly 275 software products. Product attributes are listed across from the products under broad categories for statistical process control, with each of these categories subdivided into specific product functions.

SPC Software Directory 123

This directory of SPC software manufacturers includes the company name, address, phone and fax numbers, Web address, and a brief description of the software company's products or services. (Please note that not all companies provided us with descriptions.)

As with all *Quality Digest* guides, the SPC Software Guide is in no way meant to endorse or exclude a particular organization. Rather, it's meant to be used as the starting point in the data-gathering process. Readers are encouraged to contact the companies directly for more information and to ask for—and check—references.

We appreciate any feedback you have on our SPC Software Guide. If you have any suggestions for how we can improve this guide for next year, e-mail them to sourcebook@qualitydigest.com.

SPC Software Sourcebook Guide

SPC Software Matrix Page 110

SPC Software Directory Page 123

Glossary

ANOVA—Analysis of variance. For regression analysis, a table examining the hypothesis that the variation explained by the entire regression is zero.

Capability analysis—studies the ability of a process to meet established requirements. Cp relates the spread of the process to the specification width without regard to the process center. Cpk takes into account the location of the process average. For a statistically in control process that is normally distributed, Cpk can be used to estimate the expected percent of defective material.

Cause-and-effect diagram—also known as a fishbone diagram. Used to explore the possible root causes of a problem.

Closed-loop control—some software has the capability to control a process based on the SPC analysis. In order for this to work effectively, the system must be able read real-time data from gages, scales, CMMs and other measurement tools and provide control via programmable logic controllers and the like.

DOE—Design of experiments. A methodology for designing experiments to test the effect of multiple process parameters on a given process's outcome. The methodology allows for multiple factors to be tested during one experimental run. There are several techniques, including Taguchi, fractional factorial and Plackett-Burman.

Non-normal distributions—the capability of a software to handle non-normal distributions in order to calculate such measures as Cpk.

Operational characteristics (OC) curve—for a given sampling plan, a graph that displays the probability of accepting the lot as a function of the quality of the lot or process.

Pareto chart—A combination histogram/cumulative line chart that helps identify causes that have the greatest impact on a problem.

Regression analysis—models the relationship between one or more independent variables and a dependent variable.

Scatter diagram—an x-y chart that measures the relationship between two sets of variables. If there is correlation between the variables, the points will be grouped around a line; otherwise, the points will be randomly distributed.

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SPC Software Buyers Guide		SQC/Problem-Solving Tools							Statistical Analysis/DOE							SPC							Data Interface					Operating Systems														
		Summary statistics	Normal probability	Cause-and-effect	Pareto analysis	Scatter diagram	Process flow diagram	OC curves	Toolwear analysis	Cage R&R/mgmt./control	Regression	Multivariate	Correlation	Normality test	Reliability functions	ANOVA	Hypothesis tests	Taguchi	Simulation	Non-normal distributions	Estimates of parameters	T tests	Variable charts	Attribute charts	Individual charts	Run charts	Short-run		Histograms	Capability	Multiple characteristics	Multiple gage input	Date and time stamp	Assignable Pareto	Pareto by char.	Intercharacteristic math	Plantwide monitoring	Online message	Closed-loop control	Spreadsheet	Database	Standard gaging
Company/Software																														Macintosh VAX IBM Mainframe Sun DOS Windows OS/2 UNIX												
		Inspiration Software Inc. Ph. 800-877-4292 Fax 503-297-4676 Inspiration																													MWOU											
		Integrated Quality Dynamics Inc. Ph. 800-870-4200 Fax 310-540-6392 PFT 1.5 PFT Pro Advanced 1.5 PFT Professional 1.5																														W W W										
		Intercim Ph. 612-894-9010 Fax 612-894-0399 Quality Data Collection System (QDCS)																															W									
		Interface Inc. Ph. 800-947-5598 Fax 480-948-1924 Gold Standard Load Cell Calibration Software																																								
		IQS Inc. Ph. 800-635-5901 Fax 440-333-3752 IQS Business System																																	SWU							
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