statgraphics centurion

Comparison of Statistical Software for Six Sigma

	Statgraphics Centurion XV www.statgraphics.com	Minitab 15 www.minitab.com
Basic Tools		
Descriptive Statistics	✓	✓
Probability Plots	✓	✓
Statistical Tolerance Limits	✓	
Outlier Tests (Grubbs, Dixon, MAD scores)	✓	
Spherical Coordinates Plot	✓	
Splines	✓	
Visualization		
Box-and-Whisker Plots	✓	✓
Multi-Vari Charts	✓	✓
Bubble Charts	✓	
Radar/Spider Plots	✓	
Contoured Surface Plots	✓	
Distribution Fitting		
Probability Distributions	45	16
Tests for Normality	✓	✓
Automatic Box-Cox Transformations	✓	✓
Empirical EDF Goodness-of-Fit Statistics	✓	
Categorical Data		
Barcharts and Piecharts	✓	✓
Crosstabulation	✓	✓
Analysis of Means	✓	✓
Measures of Association	✓	✓
Skycharts	✓	
Mosaic Plots	✓	
Map by State	✓	
Design of Experiments		
Screening (Factorial, Plackett-Burman)	✓	✓
Response Surface (Central Composite, Box-Behnken)	✓	✓
Mixtures (Simplex, Extreme Vertices)	✓	✓
Taguchi Inner/Outer Arrays	✓	✓
Variance Component Designs	✓	✓
Categorical Designs (Latin Squares, BIB)	✓	
Control Charts		
Attributes Charts (p, np, c, u)	✓	✓
Variables Charts (Xbar, R, S, X, MR)	✓	✓
Multivariate Control Charts	✓	✓
EWMA, MA, CuSum charts	✓	✓
ARIMA Charts	✓	✓
Toolwear Charts	✓	
Acceptance Control Charts	✓	
Average Run Length Calculations	✓	
CuScore Control Charts	✓	
Control Chart Design	✓	

Quality Tools		
QFD Matrix	✔	*
Cost-of-Quality Trend Analysis	✔	*
Cause-and-Effect Diagrams	✔	*
Process Maps	✔	*
Multivariate Capability Analysis	✔	
Six Sigma Calculator	✔	
Time Series Analysis		
Time Series Model-Building	✔	✔
Decomposition and Smoothing	✔	✔
Automatic Forecasting	✔	
Validation Statistics	✔	
Regression and Classification		
Simple Regression	✔	✔
Multiple and Stepwise Regression	✔	✔
Best-Subset Regressions	✔	✔
Logistic and Probit Models	✔	✔
Life Data Regression	✔	✔
Ridge Regression	✔	
Negative Binomial & Poisson Regression	✔	
Cox Proportional Hazards	✔	
Automatic Cochrane-Orcutt Transformation	✔	
Comparison of Regression Lines	✔	
Nonlinear Regression	✔	
Calibration Models	✔	
Neural Network Bayesian Classifier	✔	
Analysis of Variance		
Multifactor ANOVA	✔	✔
Fixed and Random Factors	✔	✔
MANOVA	✔	✔
Duncan & Student-Newman-Keuls Methods	✔	
Graphical ANOVA	✔	
Graphics Operations		
Save to image files	✔	✔
Jittering	✔	
Windowing	✔	
Cross-hair cursor location	✔	
General – Special Features		
Integrated report writer	✔	✔
Gallery for overlaying plots	✔	✔
Automatic web publishing with interactivity	✔	
Statistical interpretation of results in multiple languages	✔	
Automatic database polling	✔	✔
Print preview	✔	

* These features are not offered with Minitab 15, but are available in the Minitab Quality Companion for an additional price of $350.