

Functional Comparison between V4.0 and V5

Functions		V5	V4.0
Basic Procedure	Worksheet(1,000 column x 100,000 row,253 category)	●	●
	Data file I/O(CSV, TXT, Excel)	●	●
	Graphic file Output(bmp, jpeg, PNG, HTML)	●	●
	Data-transformation	●	●
	Batch process	●	●
Basic Analysis	Basic statistics/Correlation coefficient	●	●
	Frequency table/Multiple cross table	●	●
	MA chart	●	●
	Quick view	●	●
	Chart	●	●
QC Seven Tools	Cause-and-effect diagram	●	●
	Pareto diagram	●	●
	Histogram	●	●
	Control chart	●	●
	Scatter diagram	●	●
	Chart	●	●
Process Analysis	SPC	●	●
	MSA(Analysis by chart, Analysis of Stability, Analysis of Bias, Analysis of Linearity, GageR&R, Cross tabulation analysis)	●	●
	FMEA	●	●
	QFD	●	●
Design of Experiments	Factorial experiment(Planning, One-way layouts, Two-way layouts, Multi-way layouts)	●	●
	Orthogonal array(Planning, Orthogonal array)	●	●
	Response surface analysis(Response surface design, Optimization of Single response, Optimization of Multiple responses)	●	●
	Effect plot	●	●
Quality Engineering	Planning for Parameter design	●	●
	Robust parameter design	●	●
Multivariate Analysis	Simple regression analysis	●	●
	Multiple regression analysis / Quantification Method [I]	●	●
	Orthogonal polynomial regression	●	●
	Logistic regression analysis	●	●
	Principal Component analysis	●	●
	Quantification Method [III]	◎	
	Discriminant analysis / Quantification Method [II]	●	
	Hierarchical cluster analysis	◎	
Reliability Analysis	Probability plot(Probability plot, Consider of distribution)	◎	
	Accelerated test model(original data, lifetime indicator)	◎	
Test and Estimation	Test and estimation of discrete data(Nonconforming ratio in population, Difference of nonconforming ratio in two populations, Number of defects in population, Difference of defects in population, m*n contingency table)	●	●
	Test and estimation of continuous data(Population variance, Ratio of two population variances, Uniformity for more than 3 population variances, Population, Difference between two population means, The difference of the two population means for the paired data, Test of outliers)	●	●
	Nonparametric test(Chi ² test, Wilcoxon rank sum test, MOOD test, Kruskal-Wallis test, Wilcoxon signed rank test, Friedman test)	●	●
	Power of test and Sample size	●	●
	Calculation of probability	●	●

*◎ is an added function in V5.

*V5 does not have the functions of New QC Seven Tools which V4 had.