



ProcessMA 1.6



MORE THAN JUST A STATISTICAL SOFTWARE

ProcessMA is a Microsoft® Excel® Add-in. It is packed with a comprehensive and yet easy-to-use set of tools for statistical analysis, graphical analysis, Regression, Measurement System Analysis, Capability Analysis, Design of Experiments, Statistical Process Control, Reliability & Survival, Process Analysis and Project Management.

Download ProcessMA @ www.processma.com

Key Enhancements in ProcessMA 1.6

More About ProcessMA Interactive

AUTOMATIC RE-CALCULATION

With ProcessMA Interactive, analysis results are automatically re-calculated when you change your data and/or options without having to repeat the analysis process.

DYNAMIC CHARTS

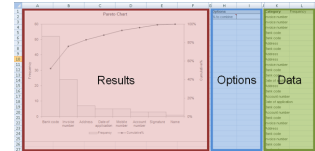
Charts are also dynamic. This feature is most useful for charts you need to update regularly such as the control charts. As you enter new data, the charts are dynamically re-plotted without the need to re-create them.

COMBINING TOOLS

Related tools are now combined for easy access. For example, DOE Design, Analyze & Factorial Plots are combined into one.

ProcessMA Interactive

Key enhancement in ProcessMA version 1.6 adding interactivity to your analysis. Enter new data or modify existing data and see your analysis results updated and charts re-plotted automatically.

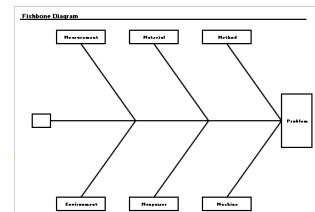


ProcessMA Tool Selector

An interactive tool to help you navigate ProcessMA toolbox and select the appropriate tool based on your objective and data set.

Fully Nested ANOVA

A new tool to help you perform a fully nested analysis of variance and estimates the variance components for a response variable.



New Templates

New templates such as fishbone for manufacturing and service industry

Expanded Capabilities

GLM and Logistic Regression procedures can model multi-level nested terms and interactions

Combining Related Tools

Related tools are combined for ease of access. For example, Power and Sample Size calculation for various distributions is now accessible in a single interface.

Enhanced Process Mapping

Added feature to turn on/off draw-as-you-type interactivity plus option to specify desired symbol dimension.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1		Draw-As-You-Type							On						
2		Standard Height of Symbol							4						
3		Standard Width of Symbol							6						
4															
5															
6															
7															
8															
9															
10															
11															
12															

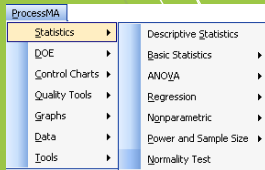
Excel 2010 Beta Compatible

ProcessMA 1.6 has been tested compatible with Excel 2010 Beta and can analyze dataset beyond 65,536 rows*.

*Also dependent on processor speed and memory space. Excel graphs can only plot up to 32,000 data points

Meet ProcessMA 1.6

Intuitive menus
ProcessMA's menus are well organized and easily accessible in Microsoft Excel

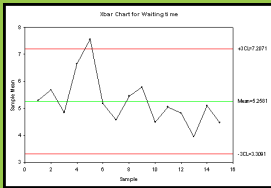
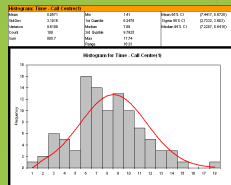


Tool Selector & Help file

Step-by-step guide to help you select the right tool and help get you started quickly with real life examples.

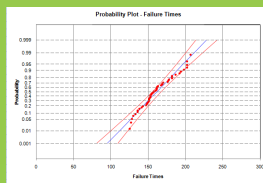
Statistical Analysis

Analyze data using Descriptive Statistics, Hypothesis Testing, ANOVA, Nonparametric Tests and Power & Sample Size, General Linear Model, etc.



Statistical Process Control

Track process statistics over time to identify common & special causes using variable, attribute and time-weight control charts.

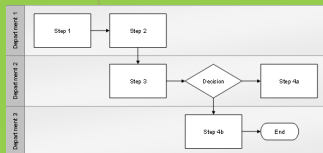


Reliability and Survival

Calculate the lifespan of the products and predict failure rates using Reliability & Survival Analysis for right/arbitrary censored data, Accelerated Life Testing and Regression with Life Data

Process Analysis

Draw process maps and value stream maps, fishbone, using our interactive process mapper. Draw maps automatically as you type or draw with a single mouse click.

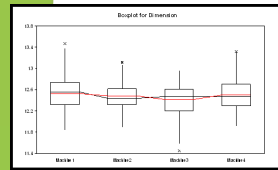


Gantt Chart Settings		01 Jan 10	01 FEB	NONE														
ID	Task	Start Date	End Date	Duration	%Complete	Milestone?	1	2	3	4	5	6	7	8	9	10	11	12
1	Define	04 Jan 10	31 Jan 10	28	100%													
1.1	Project Charter	04 Jan 10	10 Jan 10	7	100%													
1.2	Form Issues	11 Jan 10	17 Jan 10	7	100%													
1.3	SPOC	19 Jan 10	31 Jan 10	14	100%													
1.4	Toolbox	25 Jan 10			100%													
2	Measure	01 Feb 10	25 Apr 10	84	30%	YES												
2.1	Fishbone	01 Feb 10	14 Feb 10	14	100%													
2.2	Data collection plan	15 Feb 10	21 Feb 10	7														
2.3	Data collection	22 Feb 10	25 Apr 10	63														

Design of Experiments

Design experiments, visualise and analyze experiment data to determine process changes that yield maximum returns using DOE tools.

Run Order	Run Order #	Temp	High	Output
1	1	1	1	1
2	2	1	2	2
3	3	1	3	3
4	4	1	4	4
5	5	1	5	5
6	6	1	6	6
7	7	1	7	7
8	8	1	8	8
9	9	1	9	9
10	10	1	10	10
11	11	1	11	11
12	12	1	12	12
13	13	1	13	13
14	14	1	14	14
15	15	1	15	15
16	16	1	16	16
17	17	1	17	17
18	18	1	18	18
19	19	1	19	19
20	20	1	20	20
21	21	2	1	1
22	22	2	2	2
23	23	2	3	3
24	24	2	4	4
25	25	2	5	5
26	26	2	6	6
27	27	2	7	7
28	28	2	8	8
29	29	2	9	9
30	30	2	10	10
31	31	2	11	11
32	32	2	12	12
33	33	2	13	13
34	34	2	14	14
35	35	2	15	15
36	36	2	16	16
37	37	2	17	17
38	38	2	18	18
39	39	2	19	19
40	40	2	20	20

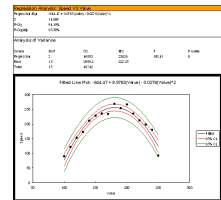


Graphical Analysis

Visualize data using Histogram, Matrix plot, Boxplot, Dotplot, Factorial plots, Multi-vari chart, Probability plots, Pareto chart, etc.

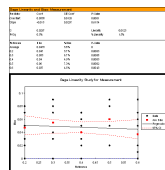
Regression

Determine and quantify relationships between variables using Simple & Multi-linear Regression and Binary, Ordinal & Nominal Logistic Regression.



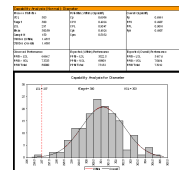
Measurement System Analysis

Evaluate system precision/ accuracy and quantify sources of variation using Gage R&R, Attribute Gage Study, Attribute Agreement Analysis, etc.



Capability Analysis

Assess whether your processes are capable of meeting specifications over time using Capability Analysis tools or Sigma Calculator.



Project Management

Manage projects using our interactive Gantt chart, Mind Mapping tool and project templates like Project Charter, Pugh Matrix, Quality Function Deployment, etc

List of features

Ease of Use

- Excel Add-in: Operate in familiar and feature-rich (Pivot Tables, formula) Microsoft® Excel® environment
- Intuitive menus for easy access
- Easy copy/paste to Microsoft® Word® and Powerpoint® for report and presentation creation
- Recall last dialog box and worksheet for quick repetitive analysis
- Worksheet manager: Organize documents for your entire project in a single file
- Tool Selector: Select an appropriate tool based on your objective and data set.

Assistance

- Help files with step-by-step guide and real life examples
- Online demo video and tutorials
- Free upgrade to latest minor version releases

ProcessMA Interactive

- Interactive worksheets embedded with ProcessMA UDFs and dynamic charts automatically analyzes data and update results and re-plot charts

Basic Statistics

- Descriptive Statistics
- 1-Sample Z Test
- 1-Sample t Test
- 2-Sample t Test
- 1 Proportion Test
- 2 Proportions Test
- Chi-Square and Contingency Table
- Chi-Square Goodness-of-Fit Test
- Correlation
- Covariance
- Normality Test
- Generate Random Data for 17 common distributions

Power and Sample Size

- Power & Sample Size for 1-Sample Z
- Power & Sample Size for 1-Sample t
- Power & Sample Size for 2-Sample t
- Power & Sample Size for 1 Proportion
- Power & Sample Size for 2 Proportions
- Power & Sample Size for One-Way ANOVA
- Sample Size Calculator

ANOVA

- One-Way ANOVA
- Two-Way ANOVA
- Fully Nested ANOVA
- General Linear Model
- Analysis of Means
- Test of Equal Variances (F Test, Barlett's Test and Levene's Test)

Regression

- Regression (Single Predictor)
- Regression (Multiple Predictors)
- Binary Logistic Regression
- Ordinal Logistic Regression
- Nominal Logistic Regression
- Residual plots
- Confidence and prediction intervals
- Fitted line plot

Nonparametric

- 1-Sample Sign Test
- 1-Sample Wilcoxon Test
- 2-Sample Mann-Whitney Test
- Kruskal-Wallis Test
- Mood's Median Test
- Friedman Test

Design of Experiments

- Create 2 Level Full/Fractional Factorial Design, Plackett-Burman Design, Replication, Center Points, Blocking and Run Randomization
- Analyze Factorial Design, Model Main Effects, Interactions, Curvature & Blocking Effects, Fit and Residual Analysis and Pareto Plot of Effects
- Factorial Plots: Main Effects Plot, Interactions Plot, Cube Plot

Capability Analysis

- Capability Analysis (Normal)
- Capability Analysis (Between/Within)
- Capability Analysis (Weibull)
- Capability Analysis (Binomial)
- Capability Analysis (Poisson)
- Sigma Calculator

Measurement System Analysis

- Gage Run Chart
- Gage Linearity and Bias Study
- Gage R&R
- Attribute Gage Study
- Attribute Agreement Analysis

Reliability and Survival

- Parametric Distribution Analysis for Right and Arbitrary Censoring
- Nonparametric Distribution Analysis for Right and Arbitrary Censoring
- Accelerated Life Testing
- Regression with Life Data

Statistical Process Control

- Xbar Chart
- R Chart
- S Chart
- Xbar-R Chart
- Xbar-S Chart
- I-MR-R/S Chart
- Zone Chart
- Individuals Chart
- Moving Range Chart
- I-MR Chart
- Z-MR Chart
- P Chart
- NP Chart
- C Chart
- U Chart
- Moving Average Chart
- EWMA Chart
- Box-Cox Transformation
- Eight Tests for Control Charts

Graphical Analysis

- Run Chart
- Pareto Chart
- Multi-Vari Chart
- Histogram
- Pie Chart
- Time Series Plot
- Scatter Plot
- Dotplot
- Boxplot
- Matrix Plot
- Probability Plot

Process Analysis

- Cause and Effect (Fishbone) for Manufacturing and Service Industry
- 5 Whys Analysis (Interactive)
- Process Mapping (Click-to-draw and Draw-as-you-type modes)
- Value Stream Mapping
- SIPOC Template
- C&E Matrix Template
- Value-Add Analysis Template
- Waste Analysis Template
- FMEA Template
- Pair-wise Comparison
- Quality Function Deployment

Project Management

- Gantt Chart
- Mind Mapping (Interactive)
- Project Charter Template
- Data Collection Plan
- Prioritization Template
- Pugh Matrix Template