

Why SigmaXL® ?

SigmaXL was designed from the ground up to be a cost-effective, powerful, but easy to use tool that enables users to measure, analyze, improve, and control their service, transactional and manufacturing processes.

An example of user friendliness is the two-sample comparison test. It automatically tests for normality, equal variance, means, and medians, and provides a rules-based yellow highlight to aid the user in interpretation of the output. Low p-values are highlighted in red indicating that the results are significant.

2 Sample Comparison Test - Overall Satisfaction		
Customer Type	1	2
Count	31	42
Mean	3.3935	4.2052
Median	3.5600	4.3400
Standard Deviation	0.824680	0.621200
AD Normality Test p-value	0.5306	0.0302
Test for Equal Variances:		
F-test (use with normal data):		
F	1.7624	
p-value (2-sided)	0.0916	
Levene's test (use with non-normal data):		
p-value (2-sided)	0.0443	
2 Sample t-test for means:		
Assume Equal Variance:		
t	-4.7991	
p-value (2-sided)	0.0000	
p-value (1-sided)	0.0000	
Assume Unequal Variance:		
t	-4.6007	
p-value (2-sided)	0.0000	
p-value (1-sided)	0.0000	
2 Sample Mann-Whitney test for medians:		
p-value (2-sided)	0.0000	
p-value (1-sided)	0.0000	

You can design experiments and “view power analysis” as you design!

2-Level Factorial/Screening Design of Experiments

Number of Factors: 3

Select Design: 8-Run, 2**3, Full-Factorial

Number of Replicates: 2

Power Information (based on # of runs and replicates):
Very Low Power to detect Effect = 1*StDev (1-Beta < 0.5);
Medium Power to detect Effect = 2*StDev (0.8 <= 1-Beta < 1)

Number of Blocks: 1

Number of Center Points per Block: 0

Randomize Runs

Factor Names and Level Settings:

Name	Low	High
A: Pull Back An	160	180
B: Stop Pin	2	3
C: Pin Height	2	3

Number of Responses: 1

Response Name
Y1: Distance

Other unique features include:

- Measurement Systems Analysis with confidence intervals
- Multiple Linear Regression that accepts both continuous and categorical predictors
- Capability Combination Report
- Weibull Analysis
- Control Chart tools
 - Add data to existing control chart
 - Split limits by historical group
 - Scroll through chart data
 - Easy to read summary of test violations.

