This page provides information on two methods for creating XBar (XBar R or XBar S) control charts using the Control Chart Builder and the Control Chart platform under Analyze > Quality and Process.

XBar Charts – Control Chart Builder

1. From an open JMP® data table, select Analyze > Quality and Process > Control Chart Builder.
2. Drag a continuous variable from Select Columns (continuous variables have blue triangles), and drop it in the Y zone.
3. Drag and drop a subgroup variable in the Subgroup zone (at the bottom).
   By default, JMP produces a control limit summaries table and two charts: XBar (subgroup average) and Range (subgroup range). Hint: Right-click on the bottom graph and select Points > Statistic to change from a Range chart, and use Limits > Sigma to change the method for estimating the standard deviation.
4. If available, drag and drop a variable in the Phase zone (top), and click the Done button when finished.

XBar Charts – Control Chart Platform

1. From an open JMP data table, select Analyze > Quality and Process > Control Chart > XBar.
2. Select one or more continuous variables from Select Columns, and click Process.
3. Select a Sample Label, and click OK. (Note: Additional dialog window options are available).

Notes:
Additional options, such as tests for special causes, are available from the red triangles in the Control Chart platform. Right-click on the graph in the Control Chart Builder for many of these same options.

For information on producing other types of control charts, see the one-page guides under Quality, Reliability and DOE at jmp.com/learn. For more details on creating XBar charts and using the Control Chart Builder, see the book Quality and Process Methods (under Help > Books) or search for “control chart” in the JMP Help.