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 Control Chart.
2. Select one or more continuous variables from Select Columns, and click Process.
3. Enter the variable that defines the subgroup into the Subgroup role. Click OK.

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.