Variables Control Charts – I/MR Charts

This page provides information on two methods for creating I/MR (Individuals and Moving Range) control charts using the Control Chart Builder and the Control Chart platform (both under Analyze > Quality and Process).

I/MR 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.

   By default, JMP produces a control limit summaries table and two charts: Individuals (Individual Measurements) and Moving Range (the moving range between each pair of consecutive points). Right-click on the graph and select Limits > Sigma to change the method for estimating the standard deviation.
3. If available, drag and drop a variable in the Phase zone (top), and click the Done button when finished.

   ![Control Chart Builder](Diameter.jmp [Help > Sample Data Library > Quality Control])

I/MR Charts – Control Chart Platform

1. From an open JMP data table, select Analyze > Quality and Process > Control Chart > I/MR Control Chart.
2. Select one or more continuous variables from Select Columns, and click Process. Add a variable defining phases into the Phase role if desired. Click OK.

   ![Control Chart Platform](Diameter.jmp [Help > Sample Data Library > Quality Control])

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 IR 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.