Create a cam profile

You will define the motion relationship between the camshaft and the right valve using the **Cam Profile** command. You will use the **Cam Profile** command so that you can use automatic transversal segments and SCOUT integration to develop the motion of the valve later.

1. Choose **Home** tab→**Mechanical** group→**Cam Profile**  .
2. In the **Axes** group, set the following:

   In the **Master** group:

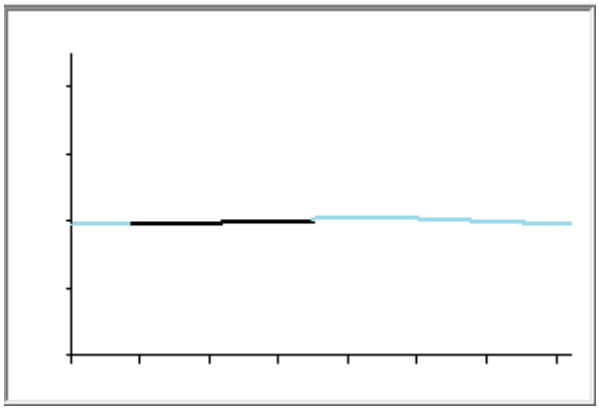
   - **Type** = **Rotary**
   - **Minimum** = **0**
   - **Maximum** = **360**

   In the **Slave** group:

   - **Type** = **Linear Position**
   - **Minimum** = **0**
   - **Maximum** = **45**
3. In the **Settings** group, set the following:
   - **Cyclic Type** = **Non-cyclic**
   - **Interpolation Type** = **Cubic Spline**
4. To define the motion relationship, in the **Cam Profile** group, do the following:

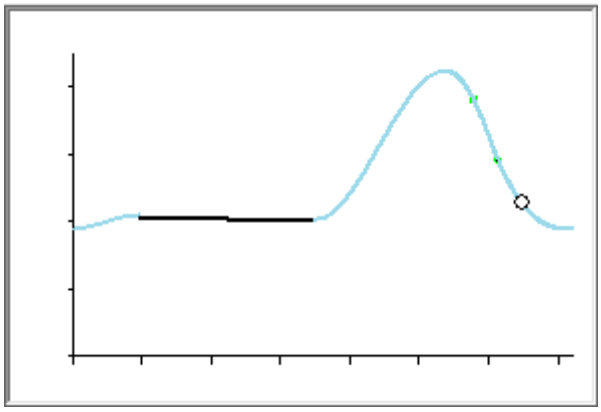
   In the **Graph View**:

   1. Right-click in the chart and choose **Add Line**.
   2. Click at 50, 20 to add the start point.
   3. Click at 175, 20 to add the end point.

   4. Right-click in the chart and choose **Add Point**. From the list, choose **point_xy**.

5. Click at 290, 38 to add the point.
6. Repeat these steps to add a point at 307, 29



7. In the **Name** box, type **valve2 motion**.
8. Click **OK**.

Note If a message appears, you may need to clear the **Checking G2 Continuity** check box to proceed.