



Arc Tangents

Represents two arcs with regular tangent lines extending between the tops and bottoms of each arc. To change the radius of an arc, drag its control handle . To change the length of the tangent line, drag an endpoint.

To quickly draw belt systems, just size the circles of several Arc tangents shapes and then glue the endpoints on one shape to the endpoints on another.

Triangle: Base, Height

To change the height, drag the control handle . To resize the triangle base, drag an endpoint.

Rectangle

To resize proportionally, drag a corner selection handle. To change the shape height or width, drag a side selection handle.

Diagonal Rectangle

To resize the shape diagonally, drag an endpoint. The endpoints lie on opposite corners of the rectangle.

Right Triangle: 2 Legs

To resize a leg, drag any handle. To show or hide a right-angle box, right-click the shape. (Hold down the Shift key as you drag to create straight lines.)


Circle/Ellipse

To resize the circle proportionally, drag a corner selection handle. To change the shape from a circle to an ellipse, drag a side selection handle.

Numeric Sector and Arc Shapes

Represents an arc or a sector of a circle. The text displays the size of the sector or arc angle in degrees. To resize the shape, select it, then type a new value. To display the complementary sector or arc, right-click the shape. To show or hide the text, right-click the shape. To resize the shape when text is hidden, select it, press F2, then type the value. To change the length of the radius, drag an endpoint. To change the shape from a circle to an ellipse, drag the control handle ■ at the top. To reset an elliptical shape to a circle, right-click the shape.

Graphical Arc and Sector Shapes

Represents an arc or sector of a circle. To resize the shape, select it and drag the control handle . To change the length of the radius, drag an endpoint. To show the complementary arc, right-click the shape.


Circle Tangents

Represents two circles with regular tangent lines extending between the tops and bottoms of each circle. To resize a circle, drag its control handle ■. To set which tangent lines are visible, right-click the shape. To quickly draw belt systems, resize the circles of several Circle Tangents shapes, then glue the endpoints on one shape to the endpoints on another.


Line with Extensions

Use this shape with the Shape > Operations > Fragment command to create new shapes. To ensure proper alignment and overlap of lines, position this shape's endpoints on the edge of the shape you want to fragment, then drag the extensions outside the shape.

Rounded Rectangle

Represents a vessel or tank. To change the roundness of the ends, drag the control handle .

Chamfered Shape

To change the chamfer size, drag the control handle . To set a specific value for the chamfer size, right-click the shape.

Opposite Tangent

Represents two circles with a tangent line extending from the top of one circle to the bottom of the other. To alternate between complementary tangent lines, right-click the shape. To resize a circle's radius, drag its control handle ■. To change the distance between circle centers, drag an endpoint.

Multigon

Multigon shapes can have from 3 to 8 sides. To change the number of sides, right-click the shape. The size of the Multigon edge shape is based on the length of one side. The size of the multigon center shape is based on its radius. To resize or rotate the shape, drag an endpoint.

Right Triangle: Angle, Hypotenuse

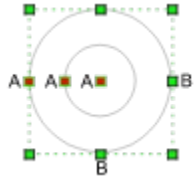
The right triangle is defined by its hypotenuse and one angle. To resize the angle, select the shape, then type a new value. The text displays the size of the angle in degrees. To resize the hypotenuse, drag an endpoint. (Hold down the Shift key as you drag to create a straight line.) To show or hide the text, right-click the shape. To resize the angle when the text is hidden, select the shape, press F2, then type the new value.

Circle: 3-point

The circle passes through the three points represented by the control handles ■, which you can drag in any direction. To resize the circle, drag any of the control handles. To show or hide the circle's alignment box, right-click the shape. To resize proportionally, drag a selection handle of the alignment box.


Circles

To add a circle (up to four), drag a control handle ■ out from the shape's center. To hide a circle, drag its control handle to the center. To resize a single circle, drag its control handle. The shape's aspect ratio is locked. To resize the group of circles, drag any selection handle.



- A Drag to change size and number of circles.
- B Drag to resize proportionally.


Circle Tangent

Represents a circle with a tangent line. To alternate between complementary tangent lines, right-click the shape. To move the tangent-line endpoint, drag the control handle . To resize the circle, drag any endpoint.

Arc: 3-Point

The arc passes through the three points represented by the control handles ■, which you can drag in any direction. To resize the arc, drag any of the control handles.

Perpendicular Angle and Lines

Represents a perpendicular angle or perpendicular lines. To show or hide a right-angle box at the intersection of the two legs, right-click the shape. To resize the base line or rotate the shape, drag an endpoint. To change the height, drag the control handle .

Triangle: Free

The triangle's vertices are defined by control handles, which you can drag in any direction. To move a vertex, drag its control handle ■. To show or hide the selection box, right-click the shape. To resize the triangle proportionally, show the selection box, then drag a corner selection handle. To widen or lengthen the triangle, show the selection box, then drag a side selection handle.

Circle: Radius, Diameter

Circle size is based on radius or diameter length. To change the radius or diameter of the circle, drag an endpoint. To change the shape from a circle to an ellipse, drag the control handle at the top of the shape



