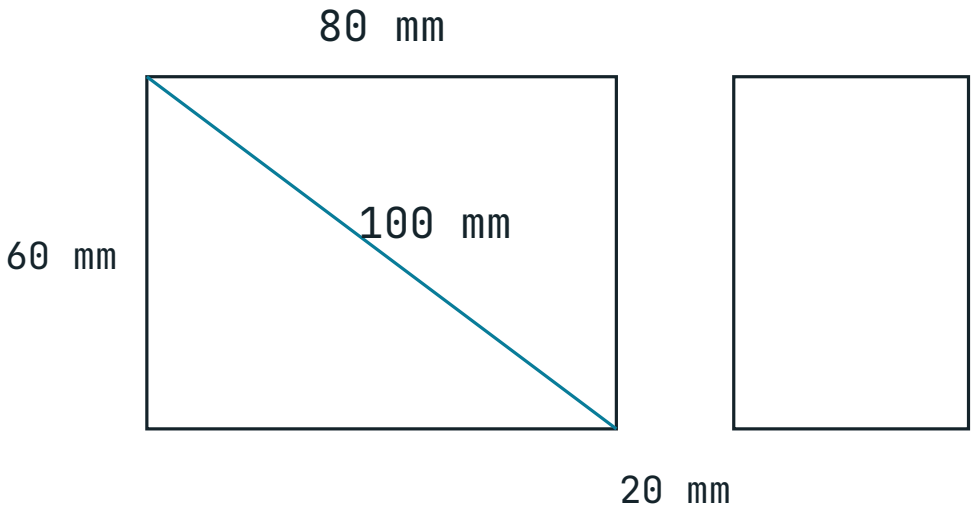
LESSON GUIDE

Measuring distances

Inspect widths, diagonals and clearances with temporary measurement overlays.

Software practice

No laser is needed. Supplied native files have no machine profile and operation Output is off. Their saved settings are not a material recipe.



Demonstration readings. This illustration shows geometry, not saved dimension objects.

1. Open **measure-start.lzrproj**. Choose **Measure** in the left toolbar, then **Linear** in Properties.

2. Click the large rectangle's top-left corner and top-right corner. **Length** should read **80.00 mm**.

3. Press **Escape** to clear the line. Click top-left, then bottom-right. Length is **100.00 mm**, Horizontal **80.00 mm**, Vertical **60.00 mm**.

4. Choose **Gap** and click inside the two rectangles. **Minimum gap** is **20.00 mm**. Compare with **measure-demo-check.png**.

INDEPENDENT PRACTICE

Independent practice

Open **measure-practice-start.lzrproj**. Measure the larger rectangle's width, height and diagonal using Linear, then the closest gap using Gap.

Width:

Height:

Diagonal length, Horizontal and Vertical:

Minimum gap:

☐ Aim at the actual corners for Linear. Missing a corner changes the reading.

☐ Clear between measurements with Escape. Use Gap for object-to-object clearance.

☐ Compare with measure-practice-check.png after recording your own readings.

No design edit to save

Press Escape once to clear a measurement, then again to return to Select. These overlays do not become shapes or laser paths and are not saved as drawing geometry.

EXPLAINED ANSWER

Explained answer

Width 60 mm; height 80 mm
Those are the practice rectangle's horizontal and vertical spans.

Diagonal 100 mm
The two perpendicular spans are 60 and 80 mm. Their diagonal is 100 mm. Horizontal reads 60 mm and Vertical reads 80 mm.

Minimum gap 30 mm
The neighbor starts 30 mm beyond the large rectangle's nearest edge. Gap finds the closest clearance, not the distance between your click points.

measure-start.lzrproj
Demonstration geometry. Width 80 mm, height 60 mm, gap 20 mm.

measure-demo-check.png
Illustrated demonstration answer readings.

measure-practice-start.lzrproj
Independent geometry with different dimensions.

measure-practice-check.png
Illustrated practice readings: width 60, height 80, diagonal 100, gap 30 mm.

Answer images show temporary readings. There is no second native answer with permanent dimension lines. The tool can also drag a line, but this lesson uses two clicks. Keep the supplied geometry unchanged.

Matches the demonstrated Beam Bench 0.2.37 interface. Panel layout may differ in later versions.