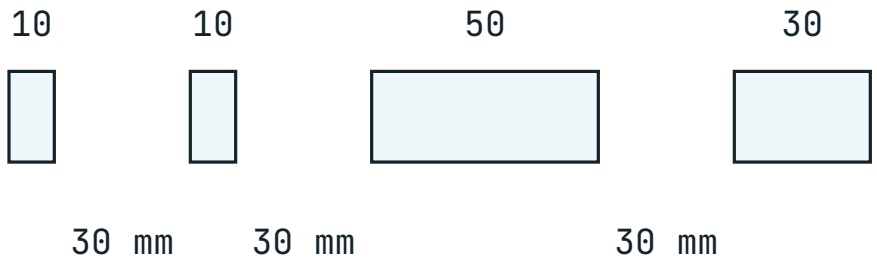
LESSON GUIDE

Distributing objects evenly

Choose equal edge gaps or equal center spacing, and understand why they can give different results.

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.



Horizontal answer. Widths in millimeters above; edge gaps below. Illustration, not an app screenshot.

1. Open **distribute-start.lzrproj**. Select all four rectangles with **Cmd + A** on Mac or **Ctrl + A** on Windows/Linux.

2. Choose **Arrange > Distribute > Distribute H-Spaced**. H means horizontal.

3. Check the three gaps: each is **30 mm**. The outside rectangles remain fixed, and the shapes keep their sizes.

4. Try **Distribute H-Centered** in the same menu. Its centers are equally spaced, but the edge gaps differ. Undo to return to the equal gaps.

Compare with **distribute-complete.lzrproj**. The Properties Distribute buttons use Centered; use the Arrange menu's Spaced option for equal edge clearances.

INDEPENDENT PRACTICE

Independent practice

Open **distribute-practice-start.lzrproj**. These four rectangles run vertically. Select all four and choose **Arrange > Distribute > Distribute V-Spaced**.

☐ Use at least three separate, unlocked objects. A group counts as one object.

☐ Keep the outside rectangles fixed and preserve each rectangle's dimensions.

☐ Aim for three 30 mm gaps. Save your own copy before comparing with distribute-practice-check.lzrproj.

Which option gives equal gaps between edges?

Which option gives equal center intervals?

Why do those options differ for these rectangles?

The practice rectangles are all 20 mm wide, with heights 10, 20, 30 and 10 mm.

EXPLAINED ANSWER

Explained answer

Spaced: equal clearances
For the horizontal example, the overall span is 190 mm. The widths total 100 mm, leaving 90 mm for three gaps: 30 mm each.

Centered: equal center intervals
The horizontal center interval is about 56.67 mm. Because the widths differ, the edge gaps are about 46.67 mm, 26.67 mm and 16.67 mm.

Vertical practice: three 30 mm gaps
Its span is 160 mm and its heights total 70 mm. The remaining 90 mm again makes three equal gaps.

distribute-start.lzrproj
Uneven horizontal demonstration starter.

distribute-complete.lzrproj
Horizontal answer. Left edges X 80, 120, 160 and 240 mm.

distribute-practice-start.lzrproj
Uneven vertical practice starter.

distribute-practice-check.lzrproj
Vertical answer. Same sizes, with equal 30 mm edge gaps.

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