

# LuBan

2D Window

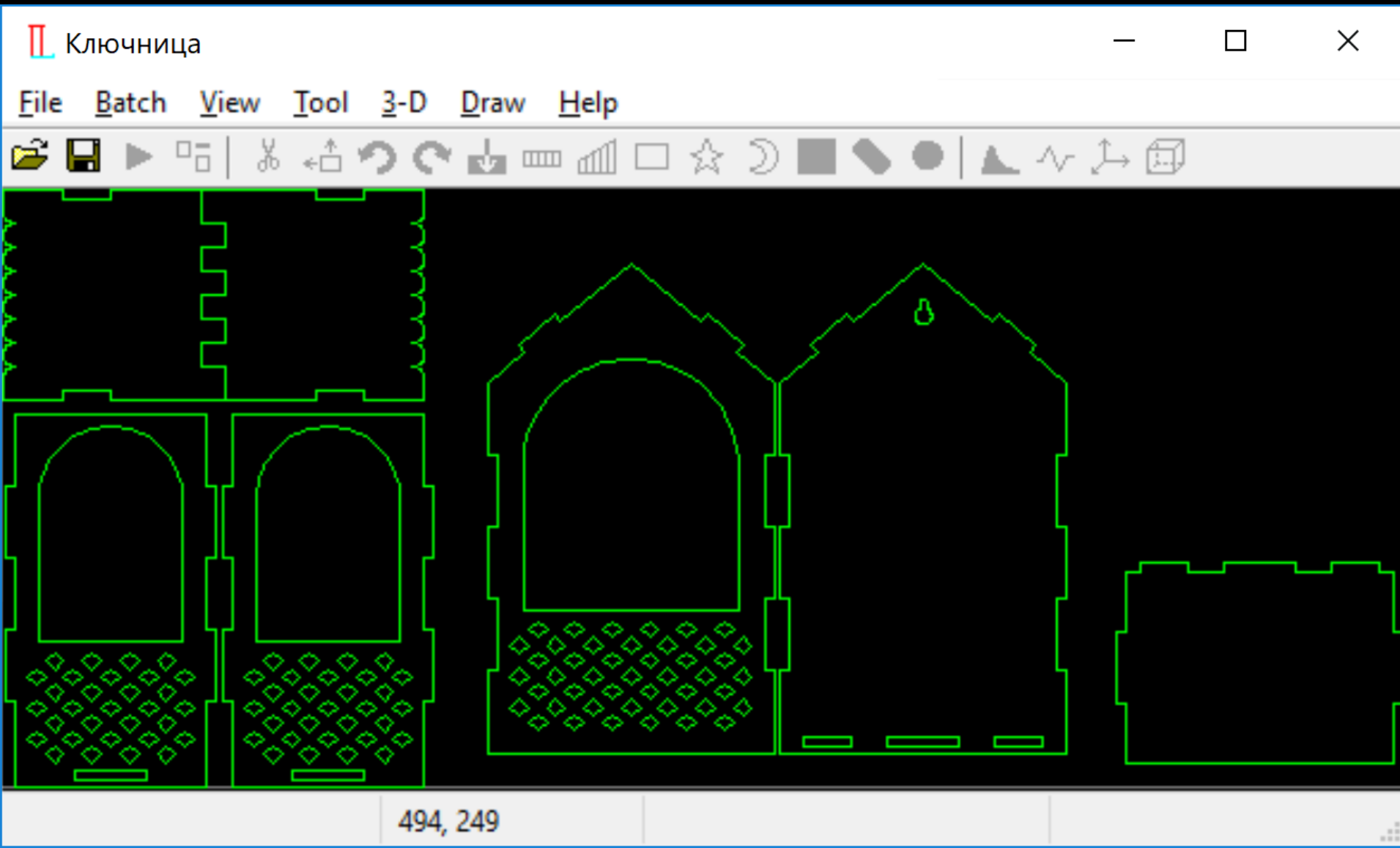
Draw → Nesting

**LuBan** has a 2D nesting function to optimize the layout of 2D shapes on a rectangle sheet. (There is also a 3D nesting function, 3D window “Mesh → Nesting”.)

First, “File → Import → DXF figure”, import a DXF file that has some 2D shapes. (“Bird house.pdf” shared by Thomas from [www.XYZfab.com.au](http://www.XYZfab.com.au) is used.)

Select the advanced importing method.

A closed polygon will contain inner shapes.



“Draw → Nesting”  
invokes a dialog box.

The default sequence  
usually leads to good  
results. Try different  
sequences as you wish.

Plate size and  
clearance can be set as  
needed.

&Nesting

Nesting algorithm

Sequence: irregularity descending

Number of test angles: 8

Plate size

X: 500 Y: 250

Clearance

Part-to-part: 0 Part-to-plate: 0

Output

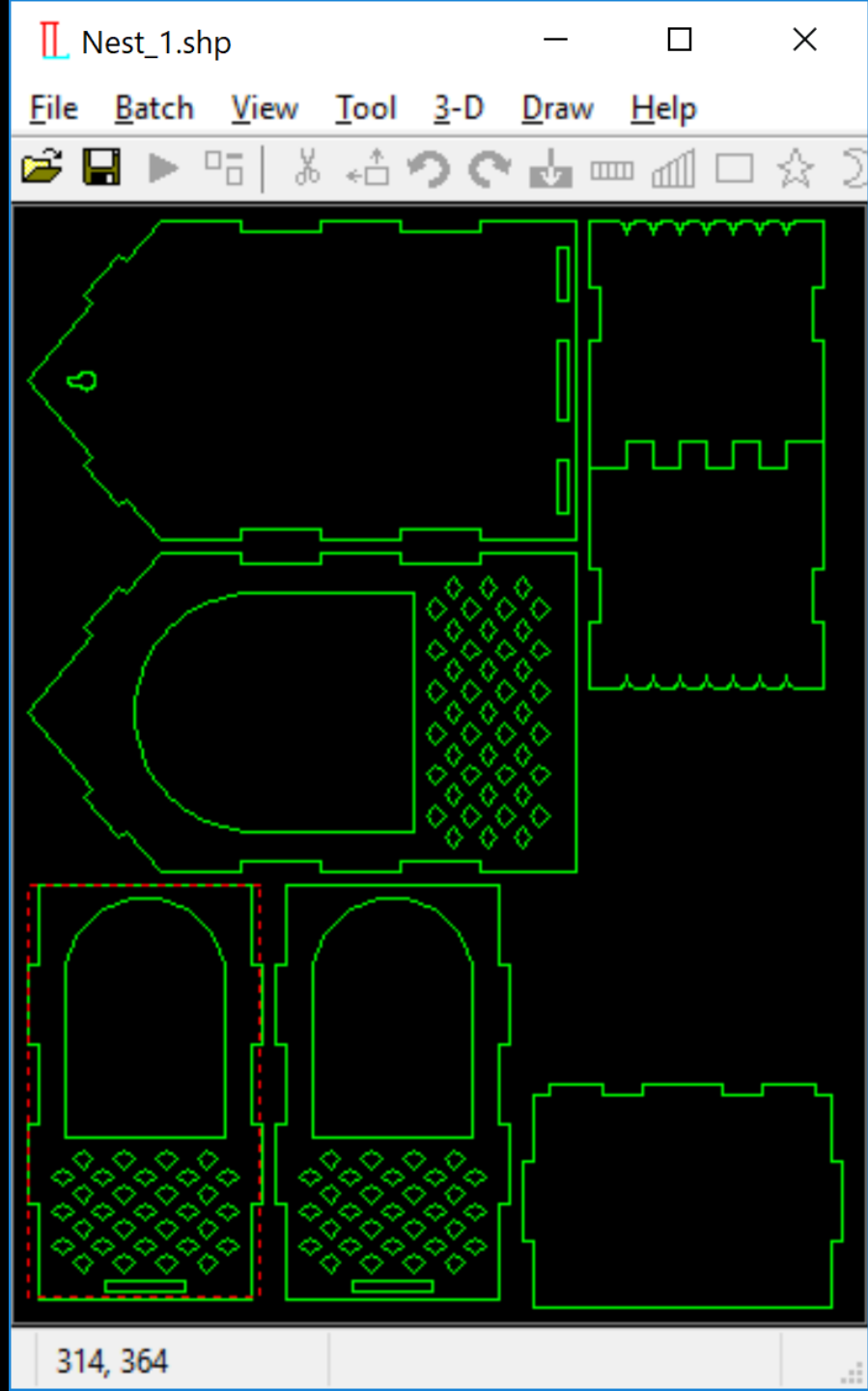
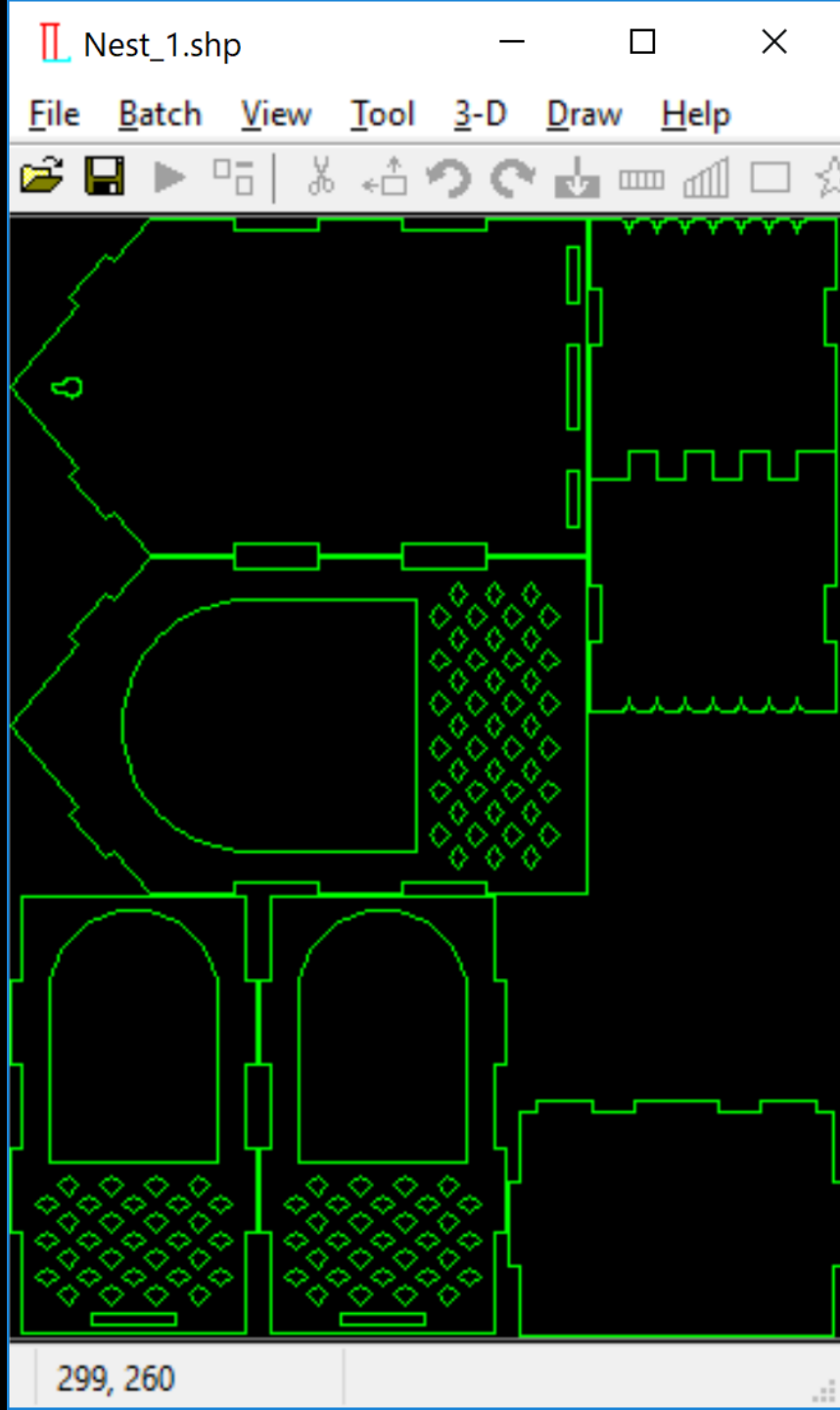
☐ Plate boundary ☐ Part information

Ok Cancel

Results (Nest\_1.shp, Nest\_2.shp, ...) are saved in a user-specified folder. A new window also displays the results in a batch.

If all shapes cannot be nested in one plate, they are saved in multiple plates, i.e. files.

The following two images show the results when clearance is set to 0 (plate size  $300 * 400$ ) and 5 (plate size  $320 * 420$ ).



# Nesting Shapes in Multiple Files

“File → Import → DXF figure” can import several DXF files in one go. They will be converted to SHP files in a user-specified folder and loaded as a batch in a window.

When **LuBan** detects that a window contains a batch, “Draw → Nesting” will be applied to shapes in all files of the batch, not just the one displayed in the window.