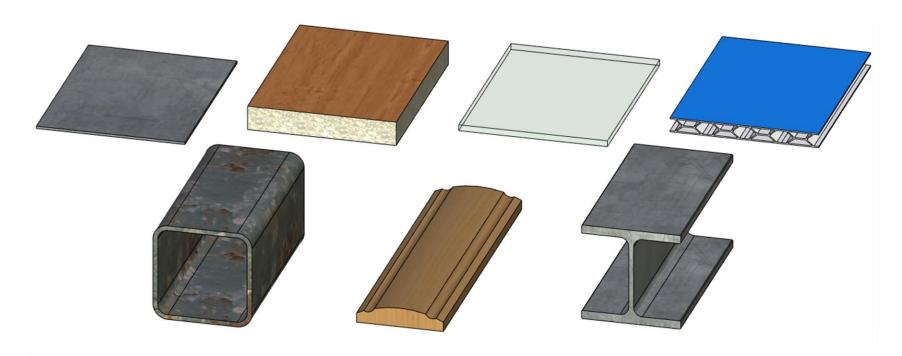


Purpose and application

Area of application:

Optimization of placement of parts for obtaining cutting schemes from various **sheet** and **whip** materials, such as rolled metal, wood boards, glass, plastics, etc.

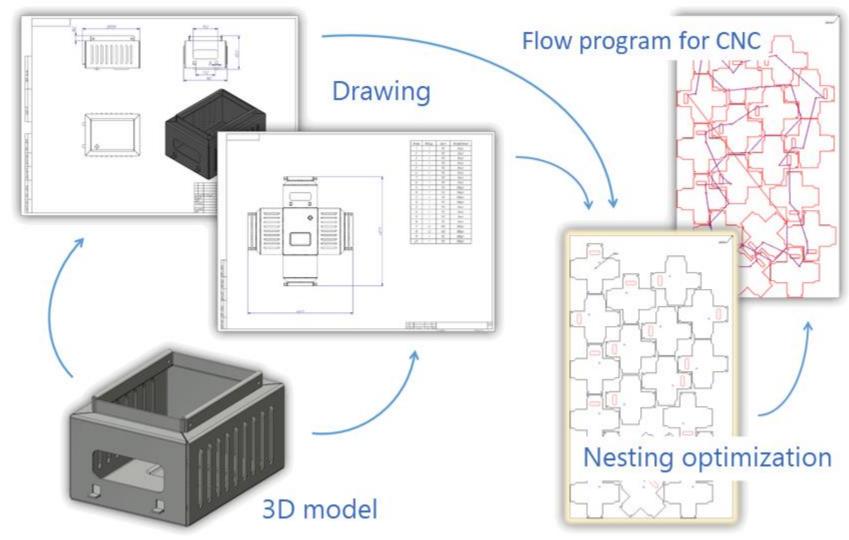


For whom:

Tool for quantity surveyors and process engineers



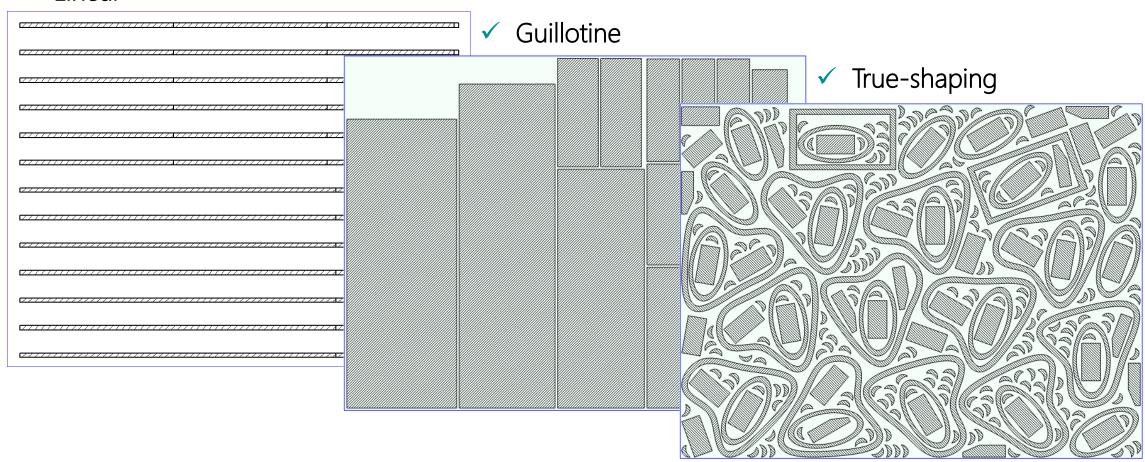
T-FLEX Nesting – highly specialized solution





Available nesting types

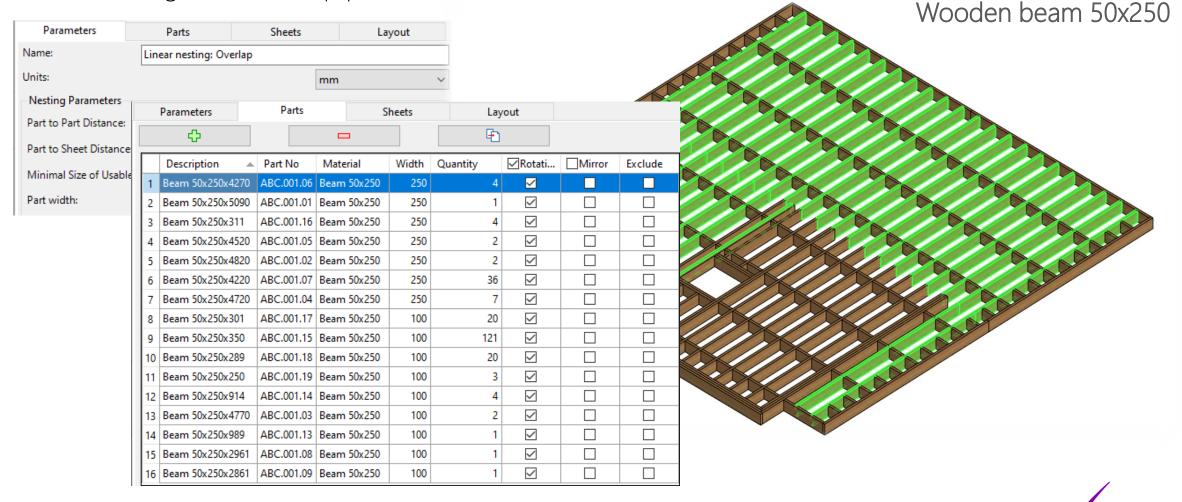
✓ Linear



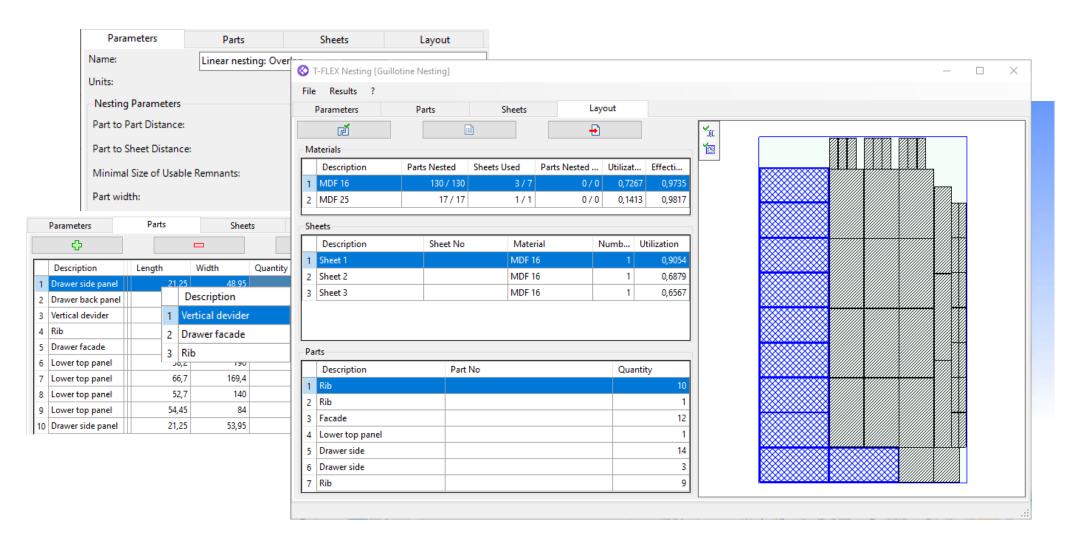


Linear nesting

Linear nesting used for whip parts



Guillotine nesting

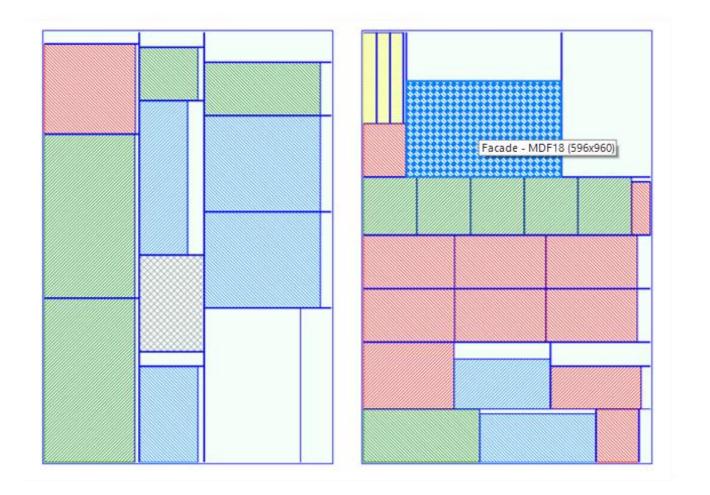




Guillotine nesting

Features:

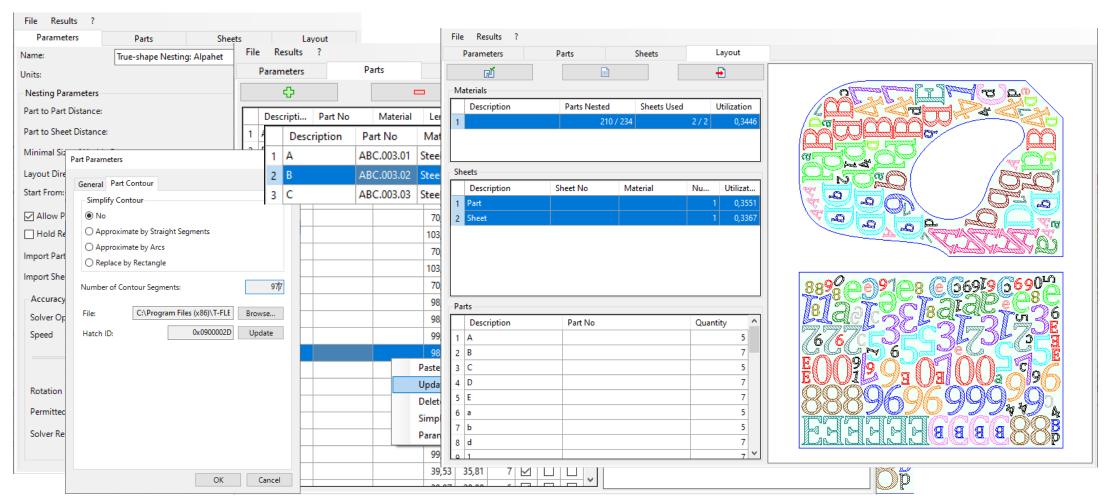
- ✓ Through cuts;
- ✓ Parts inside other parts»;
- ✓ Accounting usable remnants;
- ✓ Accounting defects;
- Manual reallocation of parts on the nesting plate;
- ✓ Nesting arbitrary shape sheets.





True-shaping nesting

True-shaping nesting used for obtaining schemes for cutting parts of any shape.

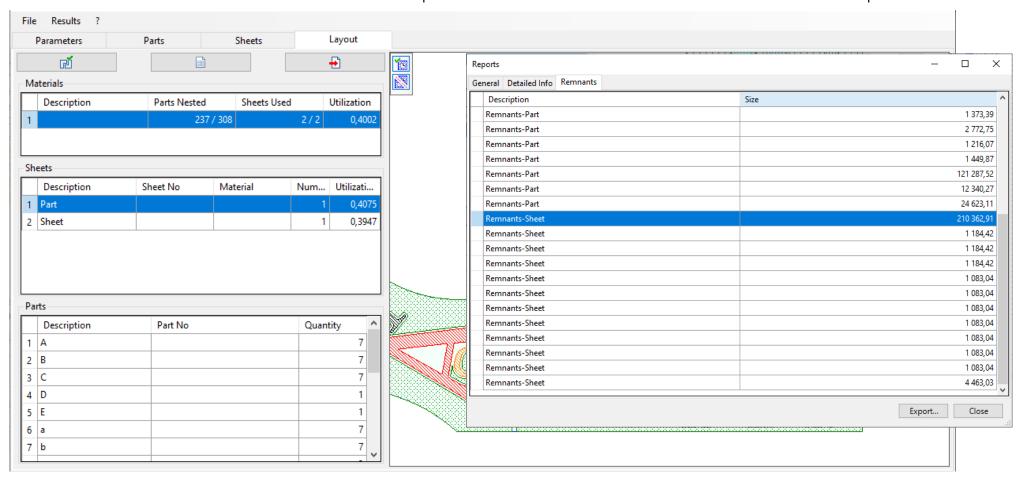




True-shaping nesting

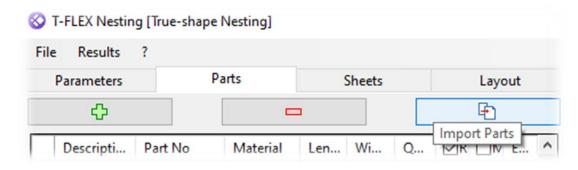
Features:

«Minimal Size of Usable Remnants» parameters and and manual remnants split



Methods of forming data for nesting project (1-2)

- 1. Manually add parts or workpieces directly in the T-FLEX Nesting interface;
- 2. Adding parts and workpieces by selecting hatches in T-FLEX CAD;
- 3. Import of parts and workpieces:
 - 2.1. Import contours from a special layer in T-FLEX CAD document;
 - 2.2. Import parts from other T-FLEX Nesting projects;

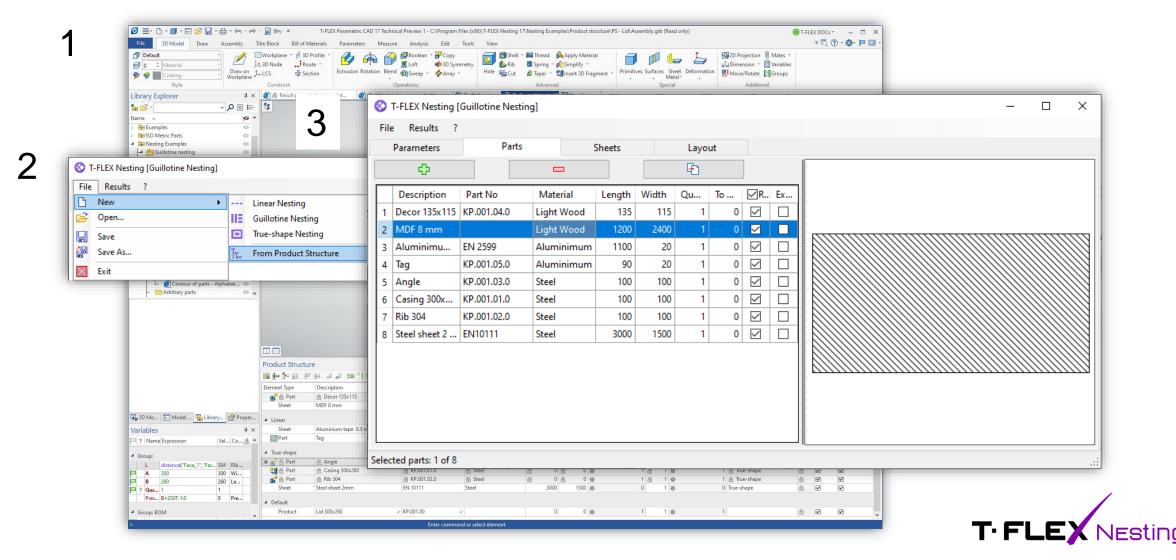


4. Copying data about parts from external tables (for example, Microsoft Excel) via the clipboard.



Methods of forming data for nesting project (2-2)

5. Generating data for a nesting project based on the product structure



Nesting optimization results

T-FLEX Nesting [Guillotine Nesting]

File Results ?

Parameters

- Calculation statistics
- Utilization
- Export to third-party programs
- Nesting map
- Nesting layout
- Reports: txt, xml, xls

2D documents

Raster Images

PDF (*.pdf)

Adobe Systems

AutoCAD DXB (*.dxb)

interoperability

T-FLEX Metafile (*.bmf)

GIF (*.gir)

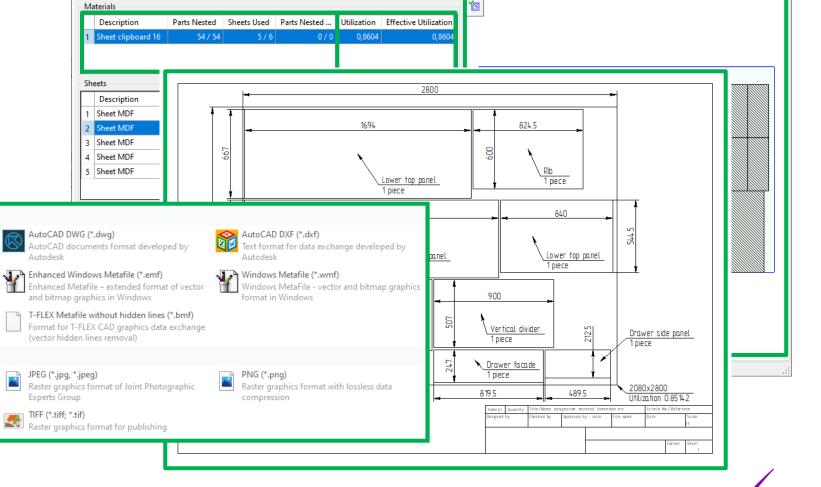
Raster graphics format

Format of electronic documents developed by

Binary format developed by Autodesk for data

Format for T-FLEX CAD graphics data exchange

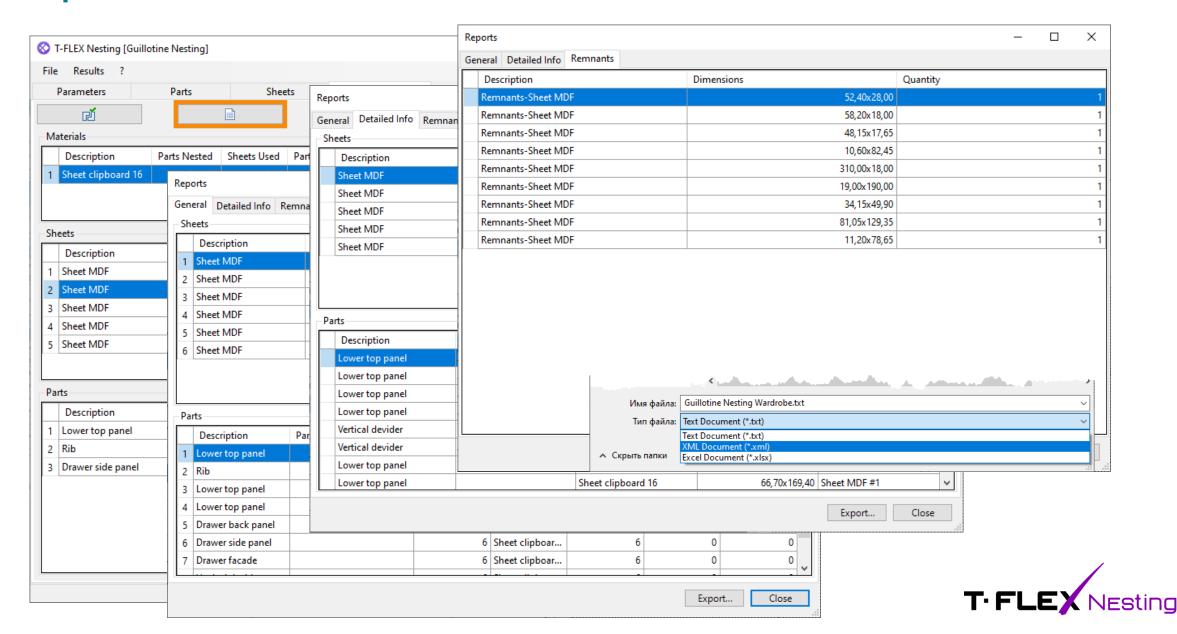
Windows raster graphics format



Layout



Reports



T-FLEX Nesting main features

- 1. Associative relation between parts contours and sheets with the original geometry;
- 2. Manage usable remnants: dimensions and shapes;
- 3. Exchange of raw data and nesting results with other systems; (based on the T-FLEX CAD functionality);
- 4. Various ways to add data to a nesting project;
- 5. Nesting layouts are used in the generation of flow programs for CNC machines;
- 6. The "T-FLEX DOCs + T-FLEX Nesting" bundle is used to create specialized solutions.



T-FLEX Nesting and T-FLEX DOCs integration

- ✓ Basic software integration mechanisms for creating specialized solutions have been developed.
- ✓ The solution configuration is performed in the T-FLEX DOCs.

