

CuboNester-C – optimized cutting plans for cuboid material

CuboNester-C computes optimized cutting plans for cuboid parts. The software is particularly suitable for cutting large blocks of material made from metal, marble, graphite, or foam.

Cutting plans with CuboNester-C

Guillotine cuts

CuboNester-C creates cutting plans that can be produced by straight end-to-end (guillotine) cuts. This corresponds to the capabilities of standard sawing technologies.

Material selection

In addition to creating optimized cutting plans, CuboNester-C selects the most suitable blocks in stock.

Machinery

CuboNester-C takes into account the characteristics of the machinery and selects one of the available saws for each cut.

For each of the saws, the following properties can be adjusted:

- Kerf
- Saw dimensions
- Allowed cutting directions
- Minimum block thickness alongside cuts
- Optional prevention of dust cuts

Further options

- Circumvention of defects in the material
- Material direction
- Overmeasure

Further options and saw properties can be implemented upon customer request.



Advantages of CuboNester-C

Save planning time and material costs

CuboNester-C fully automates the cut planning process. The optimized cutting plans lead to a higher degree of material utilization and help to save material costs.

Fast calculation

The fast optimization kernel delivers optimized cutting plans in just a few seconds. Even for large orders, cutting plans can be generated quickly.

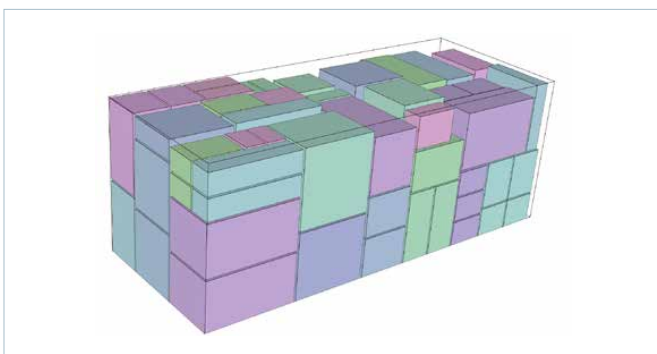
Assessment between material utilization and residual management

CuboNester-C can include reusable remnants in the optimization, both from stock and newly created during production.

Through an adjustable evaluation, the software can specifically prefer remnants over new input material, avoid creating new remnants as far as possible, and weigh these objectives against the material utilization rate.

Extension of existing systems

It is easy to connect CuboNester-C to existing systems via its XML interface.



Cutting a foam block into different types of smaller blocks.

Use of the software

CuboNester-C is distributed as a pure nesting engine and is intended to be integrated into other applications – for example plant control systems, MES or ERP systems.

For this purpose, CuboNester-C has an XML interface accessible via standard input/output, files, or network service.

The software runs on all current Microsoft Windows operating systems.

Please test CuboNester-C now free of charge!

For initial tests, a system integration is not necessary. Simply request our **free demo version** with sample files and visualization!

We would also be happy to show you CuboNester-C in a personal meeting.

About Fraunhofer SCAI

The Fraunhofer Institute for Algorithms and Scientific Computing SCAI offers you

- world-leading optimization software,
- more than 30 years of experience in the optimization field,
- a reliable partnership for all questions concerning optimized cutting and packaging plans,
- individual customizations and adaptations, and
- fast response times, as all development work takes place at a single institute.

Contact

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