# CuboNester-P – optimizes packaging plans for the shipment of customized furniture

CuboNester-P arranges different cuboid parts in layers in an optimized way. The software is particularly suitable for packaging disassembled furniture into packages.

## Better packaging with CuboNester-P

### Rule-based packaging
CuboNester-P plans packaging arrangements not geometrically but rule-based in layers. This is how it can consider the variety and different aspects of the parts to be packaged.

### Perfect for customized packaging
CuboNester-P creates packaging plans for stacks, which can then be packaged into appropriately tailored cartons.

### Once configured, the software works fully automatically
Working with CuboNester-P starts with analyzing the individual packaging requirements once and mapping them in a rules document. Fraunhofer SCAI provides support in this process at customer's request.

Then the software needs to be connected to an existing system via an XML interface. After that, CuboNester-P creates packaging plans for, e.g., furniture orders fully automatically without a user interface.

### The rules framework allows to
- consider a maximum weight and an optimum weight
- protect fragile parts by combining them with protective parts
  - back panels
  - narrow parts
  - angled parts
- consider door handles
- automatically combine similar-sized parts
- avoid unfavorable packings where a lot of protective material is necessary

Fraunhofer SCAI implements further options upon customer request.

## Advantages of CuboNester-P

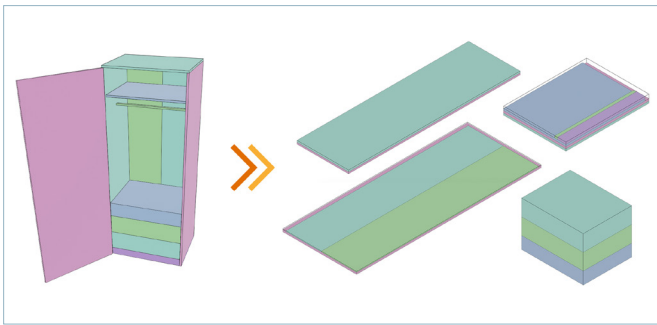### Savings in planning time, packaging material, and shipping costs
CuboNester-P handles packaging planning fully automatically. By cleverly combining parts, the software helps to save packaging and shipping costs.

### Fast calculation
The fast optimization kernel delivers packaging plans in seconds. Even large orders take only a little longer.

### Planning reliability
Work with CuboNester-P can already begin at the order stage. At this early stage, users can select the packaging and transport means. In addition, they can control the production so that parts that are next to each other in the packaging are produced one after the other.



*Packaging the parts of a closet with CuboNester-P*

### A wide range of settings
The numerous parameters of the software allow adaptation to given packing specifications.

### Extension of existing systems
It is easy to connect CuboNester-P to existing systems via its XML interface.

### Test CuboNester-P now for free

For the first tests, there is no need to connect CuboNester-P to your software. Just get in touch for a **free demo GUI!**

We would also be happy to introduce CuboNester-P to you in a personal meeting.

## About Fraunhofer SCAI

The Fraunhofer Institute for Algorithms and Scientific Computing SCAI offers you

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

> **I have worked with the packaging optimization for a few days and given the set of rules our finishing touches. The software offers many possibilities, and seeing the final optimized customer orders is great."**
>
> Customer testimonial

### Contact

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