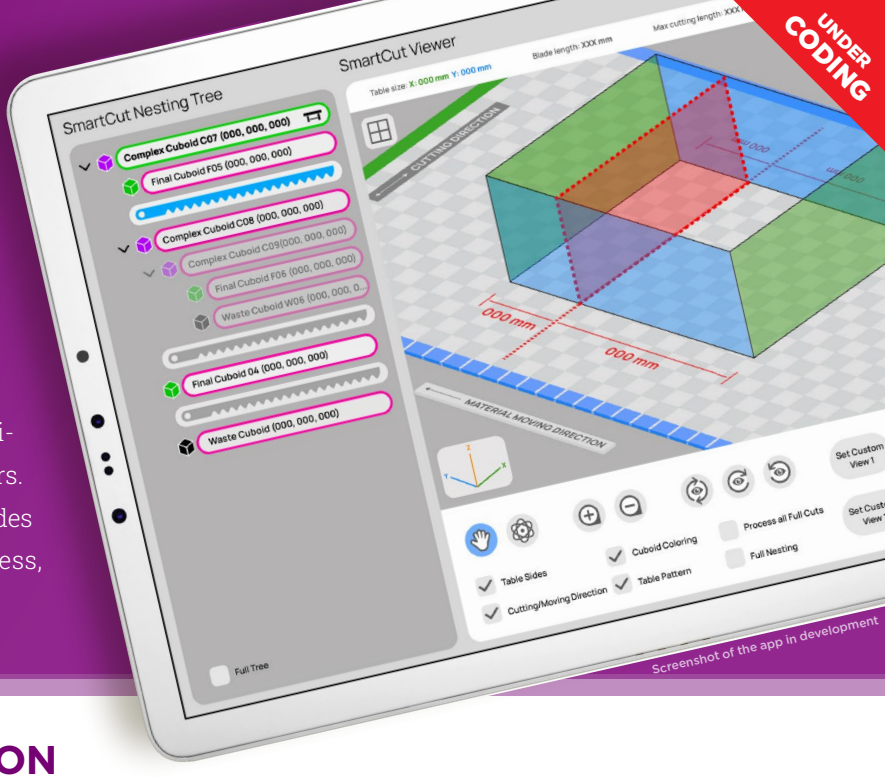
ART FLEX SOFTWARE

ARTFLEX

SMARTCUT 3D

An innovative system designed for manual and semi-automatic vertical and horizontal cutters and splitters. Equipped with built-in 3D nesting calculations, it guides machine operators through the entire cutting process, **enhancing efficiency and reducing waste**.

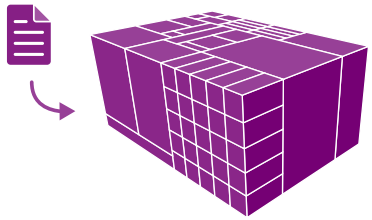


KEEP CONTROL AND PRECISION

The system is particularly well-suited for cutting processes where multiple cuboid sizes need to be extracted from a larger cuboid. Thanks to sensors and cameras connected to the software, each cuboid loaded onto the cutting table is accurately identified, full cuts are highlighted and ready to be executed. The system helps the machine operator to keep full control over the cutting process, maintain high precision and consistent efficiency throughout the operation.

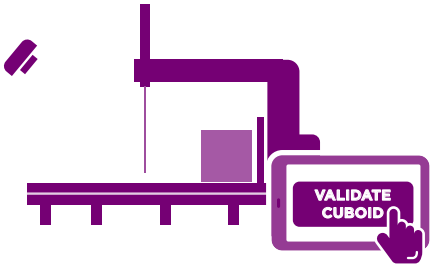
HOW THE SYSTEM WORKS

STEP 1 Data import and 3D nesting calculation



Import the list of cuboids to be nested and initiate the AI-driven machine learning 3D nesting process. The software optimizes the nesting layout to minimize waste, ensuring efficient material usage.

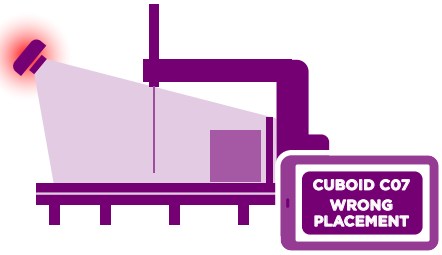
STEP 2 Cuboid Validation 1 - Loading a cuboid



Load any nested cuboid on the table. The system is ready for cuboid identification, using the integrated* SmartCut camera Press the "Validate Cuboid" button in the Smartcut device to initiate the process.

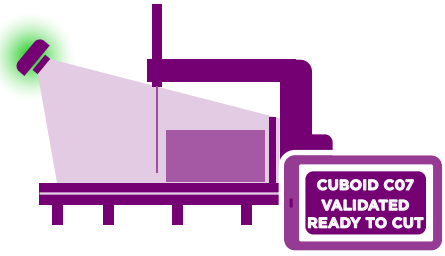
* The way of integration depends on the machine type

STEP 3 Cuboid Validation 2 - Cuboid identification



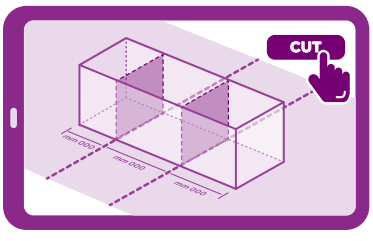
The camera is activated and captures the cuboid size and position. It displays name of the cuboid. If the cuboid is incorrectly placed on the table, the camera emits a red light, and the software issues a warning.

STEP 4 Cuboid Validation 3 - Placement correction



The system provides visual and audio signals to assist in achieving accurate placement. Once the cuboid is correctly positioned, the camera illuminates with a green light. The Validation is done.

STEP 5 Processing the cuts



Once the cuboid is validated, the Smart Cut device displays its details along with the available full cuts and their precise coordinates. Pressing the "Cut" button initiates* the cutting process.

* The data output depends on the machine type

STEP 6 Enjoying the improved workflow

Repeat Steps 2, 3, and 4 until all nested cuboids are cut out. Machine operators will appreciate the seamless workflow, minimal errors and uncertainties, and enhanced efficiency.

This flyer provides a simplified overview of the system. For a more detailed description please feel free to contact us.
ArtFlex Software GmbH, Albert-Einstein-Strasse 1, D-95028 Hof, Germany, halgard.stolte@artflex.software, +49 9267 914 6621