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## CUT

The nesting and programming software for waterjet cutting

Particularly suitable for continuous cutting whether you manage large-scale nesting or unit cutting projects, Almacam Cut can meet any types of waterjet-cutting requirements in terms of tool trajectory, cutting speed or lead-ins/outs control.

With its ability to easily adjust parameter setting to any kind of material that can be waterjet-cut, Almacam Cut is the programming solution for your waterjet cutting machines.
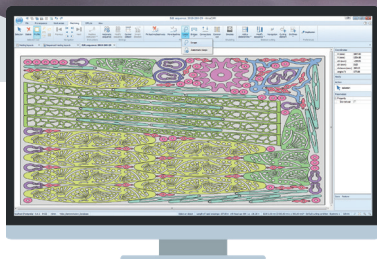
→ Advantages and benefits

✓ One mouse click to perform the nesting, the tool path and CNC program generation.

✓ Ability to convert any logo, font or picture in cutting profile thanks to Sign module (optional).

✓ Nesting capabilities in remnant sheets or off-cuts of any shape.

✓ Automatic configuration of cutting parameters and lead-ins/outs according to the material to cut (with or without abrasive).

✓ Automatic calculation of speed decrease in angles (corners).

✓ Optimized pre-pierced hole management.

Support of cutting machines equipped with multiple heads.

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Almacam Cut advantages in waterjet cutting

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→ Significant material savings

- Significant reduction of loss rates thanks to automatic nesting performance, resulting from several available strategies.
- Optimized use of remnant sheets or off-cuts of any shape.
- Optimized nesting in case of common cut.

→ Programming time reduced to the minimum

- Automatic configuration of cutting parameters and lead-ins/outs.
- Possibility to operate in full automatic mode (for nesting and tool path generation).

→ Improved quality of manufactured parts

- Optimal adjustment of cutting conditions (speed, abrasive dosage). according to various parameters (material, thickness, surface, perimeter, part geometry).
- Automatic speed decrease in corners to ensure the quality of the cutting results and avoid waterjet diffraction (according to the expected cutting quality and the used material and material thickness).
- Management of pre-pierced holes at the very beginning of the process or during the whole process).

→ Optimized cycle times

- Optimized and automatic calculation of tool path, including in case of common cut.
- Automatic or interactive control of fast trajectories in head-up or head-down modes.
- Automatic or interactive control of multi-head cutting.

→ Savings on consumables

- Reduced piercing thanks to the addition of bridges between parts that enable continuous cutting.
- Automatic control of cutting parameters (abrasive dosage, water pressure) according to the material to cut.

→ Ability to pilot complex or special machines

- Support of programmable beveling heads.
- Support of 5 axis waterjet cutting machines (with Almacam Space Cut).

→ Enhanced safety around the machine and eased handling in the workshop

- Availability of several strategies to prevent collisions between the cutting head and cut parts (or parts already cut) that may have toppled over: head lifting up, parabolic trajectory, cut part by-pass, or use of specific sequences minimizing risky passing over cut parts.
- Skeleton cutting management with various possible parameter settings to ease cut-off removal.

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