

5 AXIS WATERJET MACHINE MANAGEMENT

Watertag is designed for cutting sheets using 5-axis machines.

The program is incorporated into a complete Cad module (Logotag) which is capable of generating machining profiles fast without the need for any external drawing software.

The Taglio system also includes Magic Tool, the sheet nesting and optimization program.

Geometries produced in standard graphic formats - DXF, DWG, EPS, PLT, IGS and DSTV files can also be transferred directly to the cutting machine.

The automatic conversion of splines into lines and tangent arcs, as well as traditional mechanical processing, means that profiles from sections of three-dimensional models composed of a high number of elements can also be machined.

A typical application is the slanted cutting of pieces with completely different profiles on the two sides of a sheet.

- With Watertag the points of synchronism between the top and bottom profiles can be freely assigned.
- Dynamic cuts can be performed on up to 5 axes to compensate for cutting errors and to produce pieces with variable geometry.
- Unlike systems that carry out bevels and chamfers, this system correctly executes male and female pieces with variable conicity.
- Cylindrical and constant and variable conical machining, 4-axis contouring and 5-axis profile cuttings can all be performed.
- Contouring with 4 independent axes generates variable conical processings which perform the two profiles on parallel XY and UW planes independently.
- Manual or automatic parametric assignment of decelerations, linear discharges, circular discharges, and dwells on corners, synchronism point control.
- Independent stop and profile lead-in points on two profiles.
- Piloting of machining speeds.
- Complex machinings on more than one profile with automatic consecutive restarts for piece release. This function means that the operator can leave the machine unattended to perform long work cycles, and then return to carry out the delicate process of removing the pieces.

