

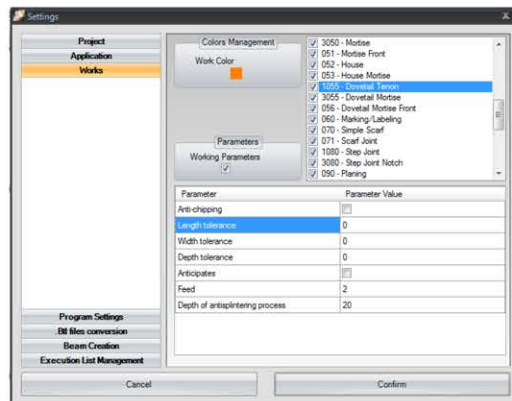
# BeamStream

## GENERAL FEATURES

Tpa has established its presence in the market of the software for the construction of roofs and wooden coverings since 2004. BeamStream is the result of the experience that Tpa has matured in the industry over the years.

The product fits between the structural design CAD and the machine that processes the beams.

The input to the software is a file in "btl" format (standard common to all design CADs); the output is the program for the machine that will make the product in a format understandable by CNC Tpa.



## FUNCTIONAL CHARACTERISTICS

Starting from a single beam (usually produced in different sections but in standard lengths), it is possible to produce one or more finished construction elements; the association of the elements in the rough beam can be either automatic or manual.

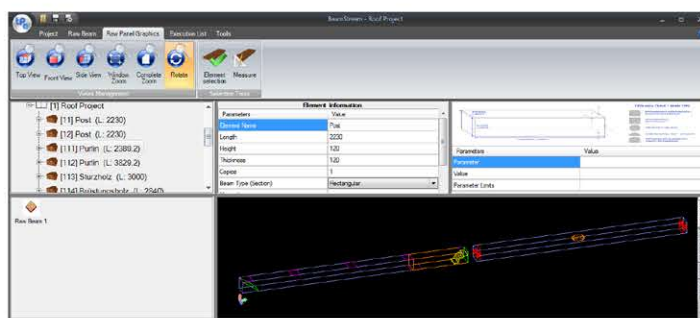
The same type of joining processing can be made in different ways and the user therefore has a choice to suit his preferences or production needs. The system automatically chooses the positioning management of the piece supports (if automated) so as to avoid collisions with the machining head. In the Professional version of the product, the operator can interact manually changing the position of the supports (collision monitoring is however carried out, which is the result of the automatic processing). The elements imported from the Btl file can be rotated along the longitudinal axis or reversed. The user has the ability to modify the original design by removing, adding or modifying joints and workings.

BeamStream contains the execution list, the ability to interact with the machine devices (axes and I/Os) and, if required, contains the part of 3D simulation of machine and a dedicated synoptic.

The current production state is always saved (rough parts composed but not executed, produced elements, etc.) so as to be able to resume work in subsequent phases.

It is possible to interface the product with the software for beam warehouse management and automatic optimization of rough beams.

## UTILITY



BeamStream enables to manage multiple projects at the same time and manufacture elements belonging to different projects from the same rough piece. This feature has been developed to optimize the waste of material, with a view to saving both economically and environmentally.

The ease of use, versatility, and its modern style, make it a top range product, simple to use even by those who are not familiar with software tools.

To safeguard the value of the processed rough parts, a preliminary test is carried out on all the required jobs, avoiding to be able to begin the processing of a beam if, for structural characteristics of one of the processes, the job cannot be completed in all its parts.