

blade cutting

The laboratory has a tangential blade cutting plotter

Zund S3 M-1600 with cutting area **1330 x 1630 mm**

With this plotter it is possible to cut:

- paper and cardboards up to 360 gr/sqm;
- cardboards up to a thickness of 4 mm (grey, white cardboard or ivory wood-pulp board);
- soft plastic sheets up to a thickness of 1 mm (polypropylene);
- corrugated cardboards;
- honeycomb panels.

While it is not possible to cut:

- rigid plastic sheets (such as methacrylates);
- metals.

Vector files must be transformed into the **.dxf** format to be imported into the plotter's management program.

In order to draw the pieces correctly, you should proceed as if you had to produce them manually.

It is necessary to draw the geometries to cut with the real **measures** already reduced to the **model scale** and in **millimeters unit of measure**.

You must have a different file for each type and thickness of cardboard to be cut.

The pieces to be cut with the plotter must be positioned inside a frame with the longer side placed **horizontally** and with the size of the support to be cut, leaving a margin of 10 mm.

It is possible to cut more than one support at the same time: the rectangles that delimit the area must be placed adjacent to each other (within the indicated dimensions of the cutting plane).

The rectangles where the pieces to be cut are to be positioned must have their exclusive layer, so must the geometries to be cut and any possible engravings. The program does not read colors, but only layers.

In order to avoid errors, the file used for cutting must contain only the pieces to be cut and engraved with their own frames.

The drawing file must not have overlapping lines, because the blade plotter reads them and will pass several times in the cut causing tears.

In case you use Autocad to produce the vectorial file, we suggest using the **_overkill** command, which, inside a selection window, eliminates all possible overlapping lines keeping only the longest ones.

In order to avoid producing fragile or unusable pieces, it is essential to check that in the drawing there are **no elements** to be cut or engraved **with relative dimensions or distances less than 1.5 mm**, for example, window frames, porches, or decorative elements.