

SOPHIE prepared BÄUMERNEST



FOR A HIGHER THROUGHPUT AND LESS WASTE THANKS TO AUTOMATIC NESTING

The traditional manual nesting, for example of upholstery parts, is a quite demanding task for the machine operator. Manual nesting is complicated and takes a lot of time.

Bäumer Nest is a nesting software which automates nesting. It is a supplementary tool for WinCAP 3 for the nesting and bloc optimization of mostly vertical cutting machines. Several orders can be entered into the software. Bäumer Nest nests these in a smart way according to their different quantities, priorities, intervals, mirroring and turning options.

Bäumer Nest allows for the setting of priorities in order to reach different nesting targets:

- Height optimization: the nesting is done in a such a way that the stack is as high as possible in order to reduce throughput time
- Waste optimization: reduction of the waste rate
- Balanced: with this option, the nesting result is height and waste optimized

Together, WinCAP and Bäumer Nest are a modern and fully automated solution for the preparation of foam cuttings.

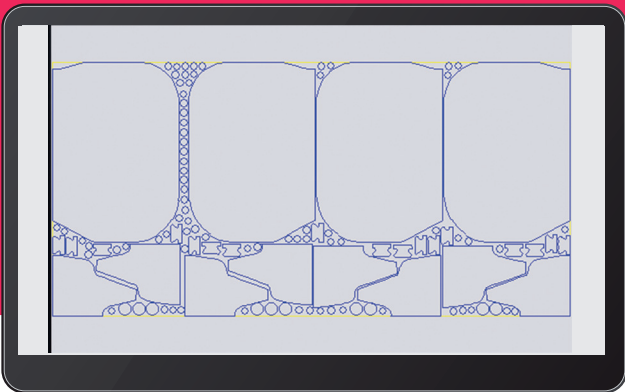
The screenshot shows the 'Nesting status (BäumerNest)' window. It displays the name 'NB-HENKEL X All (VP-2520 - 30)' and a progress bar at 50%. Below is a table of nesting tasks.

Nesting	Status
All (VP-2520 - 30)	In work
All (VP-2520 ZAGLOWKI - 30)	Unprocessed
All (VP-2538 - 10)	Unprocessed
All (VP-2538 - 15)	Unprocessed
All (VP-2538 - 20)	Unprocessed
All (VP-2538 - 30)	Unprocessed
All (VP-2538 - 40)	Unprocessed



Advantages of Bäumer Nest

- Reducing the number of cutting cycles to a minimum, leading to an improved cutting efficiency
- Foam savings of 5 to 10 % on average
- Productivity increased by ca. 10 % on vertical cutting machines
- No quantity limit and no limit on the nesting area
- Significantly shortened nesting time. This depends on the complexity of the nesting. The time gained can be used for additional calculation cycles in order to possibly optimize the nesting result.
- The software lets you define how many processors (how much computing power) should be used for the nesting. Either the entire computing power of all processors is used for the nesting, which saves a lot of time, or just a part of the processors is used, which frees up the other processors for other tasks on the same PC, for example WinCAP tasks.
- The orders are nested in the order they have been sent.
- Runs on Windows 10



Additional option: Superior mode (POS mode) for cutting lines

For example, on a BSL 214 (splitting machine) operating in line with an OFS-VS (vertical contour cutting machine).

Together with WinCAP 3.0, text files with the order data can be input. In the background, WinCAP sorts the order parts according to their height and the type of foam. When matches are found, the perfect contour nesting for the given block dimensions is created based on the order data, such as shape and quantity.

This brings about significant time savings which in turn increase throughput. For the nesting, this tool focuses on the optimization of either the stack height or the waste rate.

When the stack height gets optimized, the production throughput is significantly increased.

In many cases, a mix of waste and height optimization gives the best results, saving up to 10% compared to manual nesting.

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All details, figures and technical information were compiled with the utmost diligence, but we can accept no responsibility whatsoever for the respective accuracy.
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