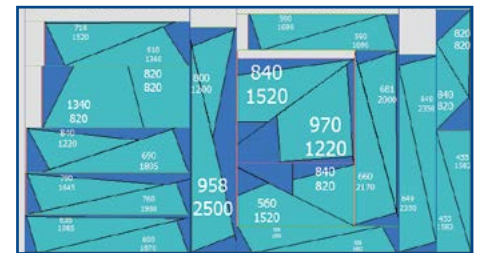
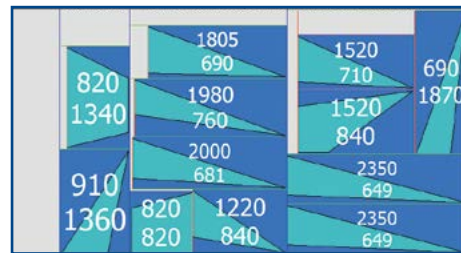
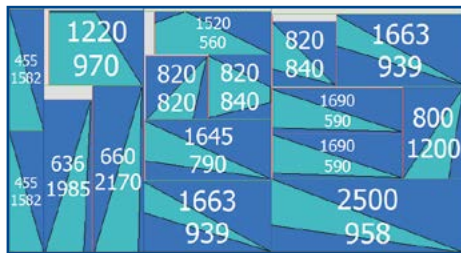




Innovative shape optimization

Shape 1 + Shape 2 = A+W Shape Optimizer



Your benefits:

- Cut minimization due to combination of shapes in a circumscribed rectangle
- Adherence to the defined production sequence
- Cost reduction due to optimal space usage of patterns on stock lites

Because of ever more complex geometries for windows, facades, winter gardens, and interior architectural elements, the share of shapes in the product mix continues to increase.

With a usual cut optimization, normally the circumscribed rectangle for a shape is considered in the optimization. Precisely with triangular shapes, this results in very low yield since under some circumstances, up to 50 percent of the rectangle's area becomes waste.

The A+W module A+W Shape Optimizer can help by combining shapes from different items in space-saving fashion within a rectangle.

In order to keep the work required on the cutting table as low as possible, a maximum of 2 shapes are nested within the rectangle. A+W Shape Optimizer considers the required auxiliary cuts so that the shapes can be removed easily from the circumscribed rectangle.

A+W Shape Optimizer can be used both in operations with harp racks as well as those with A-rack organization.* When combining shapes, the program considers the different shape items, the sorting sequence of the lites that must be adhered to in the different storage locations.

For customers who have a lot of shapes in their product mix, the savings are enormous.

Planned enhancements:

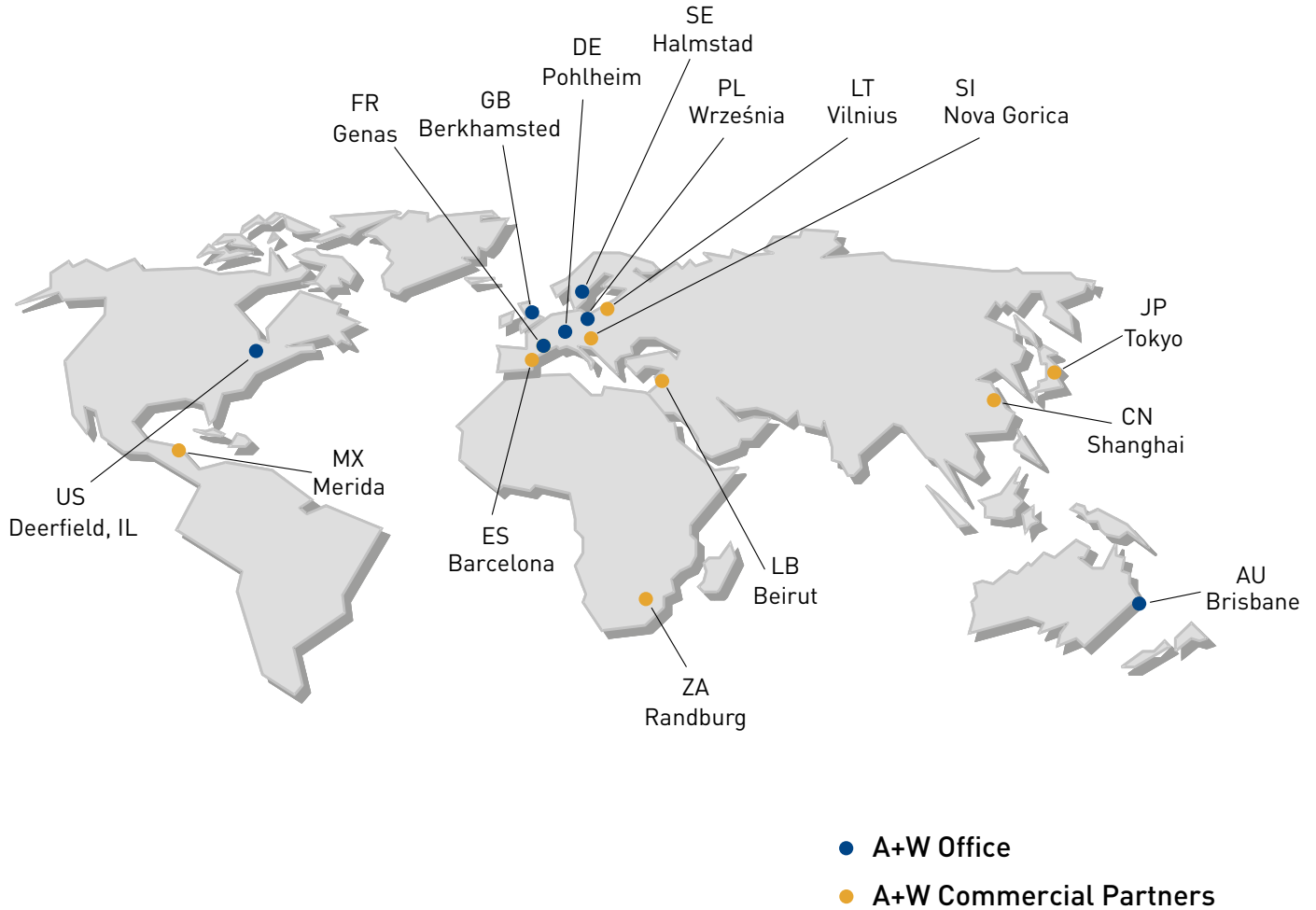
- Expansion to shapes with arcs
- Combination of shapes with area coating

* The use of A+W Shape Optimizer is only possible with A+W Production and A+W optimization programs such as A+W Sequence Optimizer, A+W Real-time Optimizer, etc.



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A+W – 40 years of global market leadership in software for the flat-glass, windows and doors industry – for small, medium-sized and enterprise companies.

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