



Wrapstyler[®]

For a Perfect Fit

Wrapstyler is a physically correct flattening software. It is the most accomplished covering software on the market thanks to 20 years' research brought to you by POLYQUARK



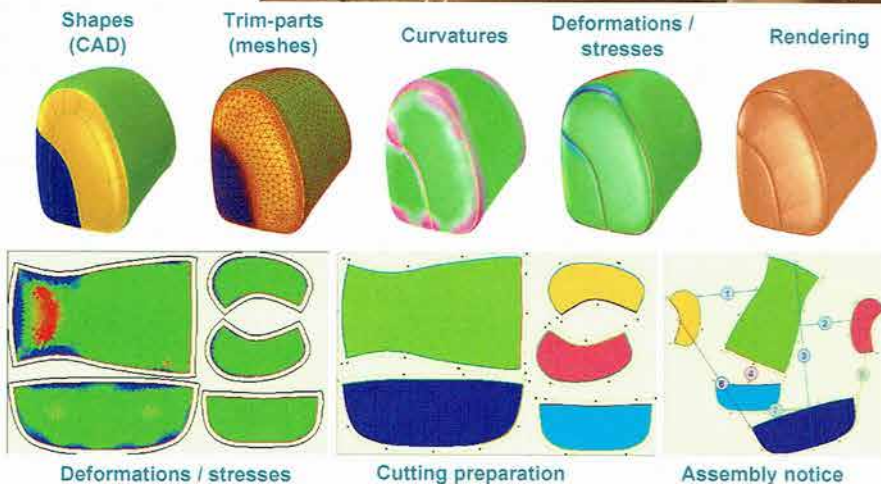
Wrapstyler calculates 2D patterns, verifies the trim-part feasibility (stresses, deformations, pressures) and prepares the complete covering.

Wrapstyler specifically addresses technical (wrinkles, wear and tear, pattern geometry, grain alignment), marketing (texture rendering and colour) and financial (material surface area, seam lengths) issues.

Wrapstyler is a valuable aid for foam covering production in the upholstery industry and in plastic injection moulding, thermo-cladding and composite manufacture.

Wrapstyler is particularly aimed at the automobile, aeronautical and nautical industries; furniture, composites, medical prosthetics, sport and camping manufacturers; and for all complex 3D products using flexible fabrics as coverings.

Wrapstyler - linking client, supplier and fabric manufacturer - also provides data to drive the cutting machines.



User benefits

Quality improvement

- Remove flaws

Enhance creativity and increase efficiency

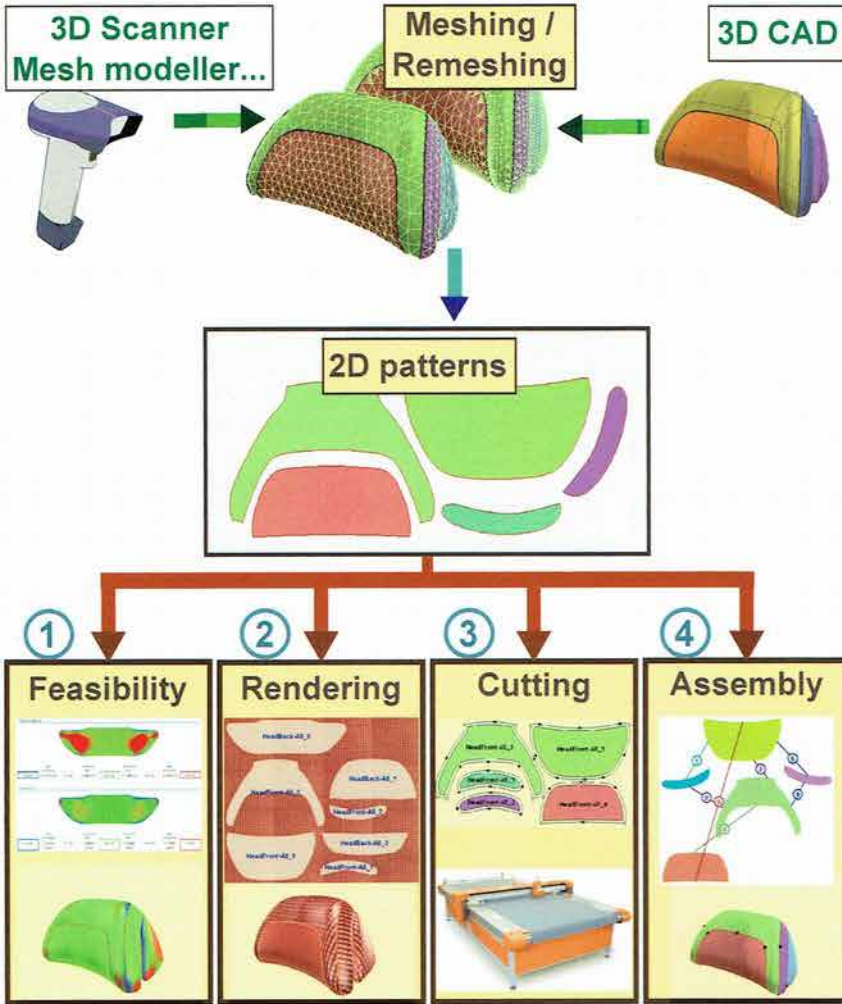
- Simulate every step
- Improve communication between sectors
- Test different designs and patterns

Cost reduction

- Reduce the number of physical prototypes
- Anticipate feasibility problems

Key features

- Simple, fast and reliable flattening feature producing physically correct results (proven and validated by our partners) with management of fabric elasticity in three directions (x, y, xy)
- Easy to use cutting tools
- Automatic creation of noches, flaps and assembly notices
- Simple exportation to cutting machines
- 2D/3D real-time visualization for ease of understanding
- Numerous standard and specific 3D/2D import/export filters
- One single solution that provides technical answers at the marketing, design and engineering stages



Mesh import

Wrapstyler imports OBJ and STL meshes, produced by 3D scanners or mesh modellers.

Meshing

Wrapstyler features several meshers to convert CAD shapes to meshes specifically adapted to the flattening process. It also includes a remeshing and simple, powerful mesh cutting tools.

CAD import

Wrapstyler imports CAD shapes from STEP and IGES (standard) files and Catia V6/V5/V4, UG NX 3D, PARASOLID®, Inventor3D®, ProEngineer®, SolidEdge®, SolidWorks® (option) files.

Physical properties

Wrapstyler takes into account the physical characteristics of materials to produce patterns.

Sheets

A clever feature enables a rigorous and intuitive organisation of the 2D data.

① Feasibility

Wrapstyler feasibility feature reveals whether a covering can actually be achieved with a given material by generating an analysis report (HTML, PDF or RTF) of deformations and stresses. Thus, the feasibility of a covering can be established without the need to produce a prototype.

② Rendering

Wrapstyler instantly provides high quality images of any size through its extensive use of OpenGL graphic cards. It is also possible to produce 3D scenes in VRML, OBJ and FBX files for photorealistic renderings.

③ Cutting

Wrapstyler uses DXF AAMA standard format to communicate with cutting tools. The user can adjust numerous parameters. Notches and flaps are created automatically.

④ Assembly

The assembly notice is a vital document that specifies the parts to be sewn together.

Medical Prosthetics



Sport / Camping



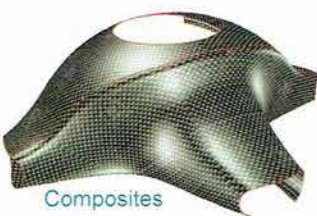
Furniture



Automotive/Aeronautical/
Nautical industry



Composites



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