



ROMANS CAD
oftware

FOOTWEAR DESIGN

1. Flexible process.
2. High-quality materials.
3. Novel design opportunities.

Designing a new shoe collection involves several different steps. From the last to the midsole and from the upper to the outsole - a shoe consists of many different, separately designed parts coming together. Traditionally, designs are made in 2D, and choices have to be made early in the process. Today, Romans CAD Software, the experts in shoe design software, and atum3D join forces to harness the power of 3D printing to create real model collections, bringing exceptional flexibility and cost reductions by combining prototyping and production.

atum 3D

3D Manufacturing Excellence

BRINGING YOUR DESIGNS TO LIFE

Additive manufacturing enables designers to test different variations and optimize designs with small iterations - but had limitations in terms of materials, dimensions, speed, and accuracy. Not anymore! atum3D created a powerful and fast DLP printer that allows using an entire collection of end-quality materials, with properties ranging from extremely strong and rigid to exceptionally flexible - all on a single platform. Combined with the design software Romans CAD, developed by our partner Strategies (France), we are proud to introduce the first end-to-end footwear design and print solution. Unlock the benefits of creating fully printed demonstration parts and models fast, flexibly and cost efficiency!

Our integral 2D-3D design & printing solution lets you quickly and cost-efficiently create high-quality lasts, soles, model moulds - and more.

CREATE YOUR VISION

Being the benchmark in footwear design software, Romans CAD offers everything the designer needs to create a model range in 3D. Specific application modules are available for every step in the design process.



BRING YOUR DESIGN TO LIFE

After importing the design, Operator Station prepares your parts for print in just a few clicks. You can combine multiple soles in a single run, thanks to the sole supports algorithm specifically added for this type of prints.

DLP Station 5-405 EXZ is the latest addition to our printer range. Together with footwear industry experts, we pushed the boundaries in terms of speed and accuracy, customising printer settings and process variables. The Extended Z-axis enables printing up to 45 centimetres in height.



Depending on the part, several specialty resins are available. Whether you are looking for strength, flexibility or biocompatibility - all our printer models share the open resin platform feature, which allows us to help you select the material that meets your requirements.

Next, atum3D can largely automate the required cleaning and post-curing processes to optimise results and even further reduce lead times.

SHARE CONVINCING, PREMIUM RESULTS

The resulting high-quality parts are ready to be assembled. There's no better way to convince potential buyers than presenting a tangible collection. Swiftly introduce unique collections without the investments nor the lead times required to open traditional moulds.



Furthermore, additive manufacturing brings flexibility to the design process. Quickly update designs or accommodate customer-specific requests - without noteworthy cost impact. Bringing convenience and cost efficiency together, this is a footwear designer's dream.



FOOTWEAR DESIGNER BENEFITS

This integral solution allows potential customers to touch, squeeze and experience your collection - while saving time, costs and raw materials in the process. Other benefits include:

- Custom combination of dedicated software, hardware and resins;
- Largest range in different print material properties available today;
- Best-in-class print speeds of up to 150 mm/hour;
- Intuitive print job preparation, easy machine set-up and workflow;
- Create both unique footwear models and serial production runs;
- Large build envelope to combine several parts in a single job.

Contact us for more information and your customised solution. For more information about Romans CAD, visit romans-cad.com.

atum3D strives for 3-fold excellence. With proprietary **software, hardware** and an **open resin platform**, we offer exceptional **accuracy, speed** and **cost-effectiveness**. We aim to make your life easy with comprehensive **training, services** and **support**. Team up with atum3D and become a part of the next industrial revolution!

For more information and specifications, please call +31 (0)85 488 26 60 or visit atum3D.com.

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