

**Press release**

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# ***Digital material parameters for a realistic 3D simulation***

## ***Hohenstein digitises textile properties of clothing fabrics***

BÖNNIGHEIM (hm) Precise digital material parameters are the key to the successful use of 3D technologies in the apparel industry. Hohenstein digitises the properties of textile fabrics for brands, clothing manufacturers and their suppliers. The Hohenstein data is compatible with common software systems and is available in all required file formats. Companies are thus able to carry out realistic 3D simulations and optimise their processes in design, product development and product communication. This saves resources and shortens the time until the collections are launched on the market.

In laboratory procedures specially adapted for 3D simulation, the Hohenstein experts use fabric samples to determine the material's physical characteristics such as weight, thickness, stiffness and stretch. This is followed by testing of the fold volume and shape using a drapemeter. The results are converted into the various file formats of the 3D simulation systems so that the digital material parameters are available in the appropriate file format for each customer. Upon request, Hohenstein also simulates the associated draping images in 3D to visualize the specific draping behavior of the tested material for the customer. That way, digital prototypes can be created that subsequently accelerate the approval processes and require significantly less material when making real prototypes for production.

**Editor**

- Hohenstein Laboratories GmbH & Co. KG
- Hohenstein Institut für Textilinnovation gGmbH

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Haber servisimizi ücretsiz  
kullanabilirsiniz

s an accredited laboratory for the comprehensive quality testing of textiles, Hohenstein combines many years of expertise in traditional garment fit development with digital technologies. In addition, the Hohenstein Academy offers numerous workshops about pattern development and 3D fitting. More information: <https://digital-fitting-lab.hohenstein.com> / [www.hohenstein-academy.com/en/](http://www.hohenstein-academy.com/en/).

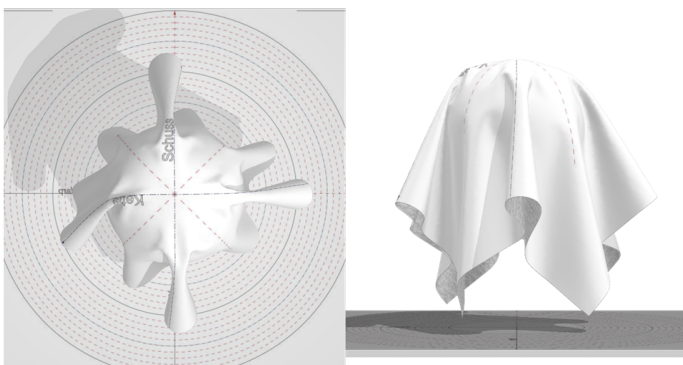
Contact address for clothing companies: [digitalfittinglab@hohenstein.com](mailto:digitalfittinglab@hohenstein.com).

#### About Hohenstein

Headquartered in Bönningheim, Germany, with 1,000 employees in its branches and laboratories around the world, Hohenstein has been providing accredited and independent services such as testing, certification, research and development of textile products and training for more than 75 years. Product labels such as the Hohenstein Quality Label or the UV STANDARD 801 support manufacturers and retailers in their marketing activities. As a founding member, Hohenstein is also one of the most important laboratories for testing within the framework of the OEKO-TEX® labels.



*Optimized digital material parameters enable a realistic 3D simulation of properties such as the texture or opacity of clothing fabrics used. © Hohenstein*



*Determining the draping behavior using a drapemeter is an important parameter for the realistic 3D simulation of textile fabrics. © Hohenstein*

*On request, Hohenstein also creates draping images in 3D in order to clearly visualize the specific draping behavior of the tested material for customers. © Hohenstein*



*The digitization of material parameters is also possible for accessories such as (elastic) ribbons, zips or buttons. © Hohenstein*

