Vidya

Visualization & simulation in 3D

Innovation is on the move - and the digital simulation of your design drafts always pays.

YOUR BUSINESS FIRST

Develop properly with 3D

In the fashion sector, linking sizing & fitting and optimal quality with a fast time to market is a question of expertise and experience - but technology is also an increasingly important factor. With Vidya, you'll be changing your development process for the better, because in addition to real time-saving, you can also inspect your draft designs much more effectively.

And the results are convincing - you can make big savings in product development time and costs for two-thirds of all your model designs – and simultaneously create added value for the follow-up processes in your value-added chain.

Your advantages
> High quality and efficiency in the development process
> Communications basis for cross-border and cross-site coordination
> Integration of real body shapes and volumes in design and pattern development
> Reduced need for physical prototypes

PRODUCT DEVELOPMENT WITH VIDYA

3D visualization & simulation

With Vidya, you have market-leading quality in the simulation of the human being, fabrics and patterns. You can visualize standardized design concepts and also bring completely new information to the development process, like the average body dimension data of your customers in model form or the development of imprints and ornamentation outside the benchmark size. You can also use the digital 3D data right away for your work planning, marketing and sales.
Errors in leg length, wrongly-positioned imprints, drape ... the details are all there in Vidya. That saves time and costs during the development phase. Vidya 20.13 takes the quality of material imaging and ease of use to a new level.

People in 3D

Vidya has basic avatars developed from standard sizetables. In 2013 the 3D software includes a large population of scanatars and fashion manikins based on the body dimension data from iSize. So Vidya enables you to integrate specific target groups and house models directly into the development process. Just one glance is enough to understand what the tables are telling you – such as the inspection of draft designs in grading. Together with iSize and Cad.Assyst, you now have a seamless process for pattern adaptation to new sizes systems - for new target groups or the EC harmonization of sizes, for instance.

Poses and animation

Scanatars and standard models can take up any pose in Vidya. Users can animate any model as and when required – including movements like taking a step, stretching out an arm and sitting down. In the new release, motion sequences can be loaded and scanatars assigned automatically.

Optimal simulation quality

Vidya displays fabric texture, optics and drape with pinpoint accuracy. This also applies to body distance - so stretch and long, flowing styles can be perfectly visualized. Vidya also renders seam types and material reinforcing like zips and interlinings extremely realistically.. And Vidya 20.13 takes this even further, because now you can integrate fabric textures, images and applications into a running simulation. Vidya now also images glossy structures, partial gloss, iridescent and crease effects or tone-on-tone patterns - and shows textures and seams both inside and out. Thanks to overlay color, every texture can be imaged in every tone of a color path (e.g. Photoshop).
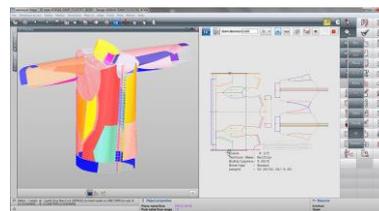

Fig. 1: 3D preview in 2D CAD

Vidya

Fig. 2: From 2D pattern to the visualisation of the products in 3D

Realistic drape

Pleats, gathering, Plissé and even unwanted folds - Vidya displays them all realistically. This means in effect that the visualization software opens up a major part of your collections for digital visualization - enabling you to control designs and silhouettes and visualize the optimal design draft - always based exactly on the original 2D pattern data.

Advanced simulation capabilities

The Assyst software has outstanding real-time imaging quality. One highlight is the realistic imaging of pattern pieces of different thicknesses that have been sewn and/or stitched together. You can see pattern changes immediately in the running version and the garment can also be actively simulated. During the simulation, you can open and close buttons, raise or fold down a collar at the touch of a button ... and much more..

One important innovation in 20.13 Vidya is the extension of the ply display from seven to 21-ply - now even complex, multi-ply models can be beautifully imaged. Vidya also simulates shoulder pads, bra cups and interlinings and has expanded its repertoire in 2013 by a material thickness of up to 3 cm. This enables the down jacket look and bra pads to be imaged. 2013 also brings you many new features for ease of use, like the simple positioning of elements such as hoods, a 3D view of your individual work steps or direct references to mistakes. And the Freeze function is especially helpful - it enables the freezing of cut pieces that are not being currently processed.

Interaction between 2D and 3D

Alterations in Vidya can be transferred straight to the 2D pattern in Cad.Assyst. This will initially apply to selected functions like matching repeats, lengthening and broadening pattern pieces and editing a piece's boundary curve. The 20.13 release makes preliminary CAD work easier for you too, thanks to multiple sewing. Several short pieces can now be attached to a large piece. This eases the workload, especially in the creation of 3D shirts (armpit socket/arm hole) or a 3D pants waistband. The 3D preview in 2D CAD makes your preparation even more effective, allowing you to quickly check the positioning of the cut pieces.

PROCESS INNOVATION WITH VIDYA

Innovation Store

3D has proven itself in the verticalized world. Vidya is part of a technology chain that consists of the 3D bodyscanner, the product catalog software INTAILOR, Cad.Assyst and the Virtual Mirror. The result is a seamless process from development to shop, one which images MTM collections as well as ready-made apparel: The bodyscanner creates a 3D model of your customer. Cad.Assyst then transfers the data of the garments or applies the individual dimensions to the selected 2D pattern. Now the (real) customer can try on garments to his heart's desire and also configure them with MTM - different sizes, fabrics, colors and imprints. In the end he chooses his favorite piece. And the virtual try-on in life-size naturally works just as well on digital house models during product development.

USING VIDYA

Performance

Vidya is one of the most powerful simulation tools in the apparel market. In the 20.13 release, this is strongly reinforced by the change to 64-bit, which has increased operating speed and memory. And refining the simulation resolution of already simulated garments boosts the speed even more.

Vidya Viewer

The free Vidya Viewer facilitates coordination within the company and with your partners. It supports Vidya 3D image formats, allowing users to view 3D models without a Vidya license.

Solid introduction

We will support you throughout the duration of the project, to put your innovation project on the road to success - 'in scope, in time and in budget'.

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