



STOLL



THIS YEAR'S COLLECTION WAS NOT ONLY DESIGNED AND KNITTED USING DIGITAL TECHNOLOGY, BUT INSPIRED BY DIGITAL DESIGN CONCEPTS. EVERY SINGLE PIECE HAS A DIGITAL LOOK AND FEEL. PIXELIZED ARTWORKS ARE OVERLAID ONTO TECHY SILHOUETTES. NATURAL FIBRES CROSSOVER WITH MANMADE FIBRES. FINISHING METHODS LIKE FELTING EMPHASIZE THE CRAFTSMANSHIP BEHIND THE CREATION PROCESS.

DIGITAL KNITS

DIGITAL TOOLS ENRICH TRADITIONAL DESIGN TECHNIQUES. WE CALL IT DIGITAL CRAFTSMANSHIP.

THE COLLECTION WAS PARTLY DESIGNED AND DEVELOPED USING NEW DIGITAL TOOLS LIKE **STOLL-ARTWORK®** AND **STOLL-AUTOCREATE®**. **STOLL-ARTWORK®** IS A BRAND NEW DESIGN TOOL THAT ADDS KNITWEAR-SPECIFIC FEATURES TO ADOBE® PHOTOSHOP®. FEATURES LIKE AUTOMATIC CONTROL TOOLS AND STITCH DISTORTION SIMULATION (TO NAME A FEW) MAKE CREATING ARTWORKS SUBSTANTIALLY EASIER FOR THE KNITWEAR DESIGNER.

SOME OF THE ARTWORKS WERE THEN TRANSFERRED TO **STOLL-AUTOCREATE®** FOR MORE PROCESSING. ONCE THE PARAMETERS OF **STOLL-AUTOCREATE®** HAVE BEEN SET UP, THE PROCESS FLOW FROM DESIGN OUTPUT TO KNITTING MACHINES MAKES MANUAL PROGRAMMING REDUNDANT – MAKING IT THE PERFECT PLATFORM FOR BUSINESSES WHERE MASS CUSTOMIZATION PLAYS A ROLE.

BEYOND THE DIGITAL CONTENT OF THIS COLLECTION, YOU WILL FIND GARMENTS WITH VISUALLY EXCITING DESIGNS AND FUTURISTIC FUNCTIONS, CARRIED OUT USING OUR LATEST MACHINE FEATURES.

PREPARE TO BE INSPIRED.

JÖRG HARTMANN – HEAD OF FASHION & TECHNOLOGY



SCAN THE QR CODES FOR DIRECT LINKS TO THE KNITS IN OUR PATTERN SHOP AND MORE DETAILS.

OR VISIT [PATTERNSHOP.STOLL.COM](https://patternshop.stoll.com)

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*** Seamless boxy sweater with Fair Isle shape design.

Rendering artwork in 2-colour-float jacquard construction.

The artwork continues jointlessly into the tubular hem.

Multifilament yarns and wool blends make for a very lightweight garment.

The float jacquard is designed directly on the shape using the new Stoll-artwork® extension.

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*** Oversized jacquard coat knitted in Fully Fashion technique.
The 3-coloured jacquard artwork is created using the new Stoll-artwork® extension.
One colour features a Stoll-ikat plating® design.





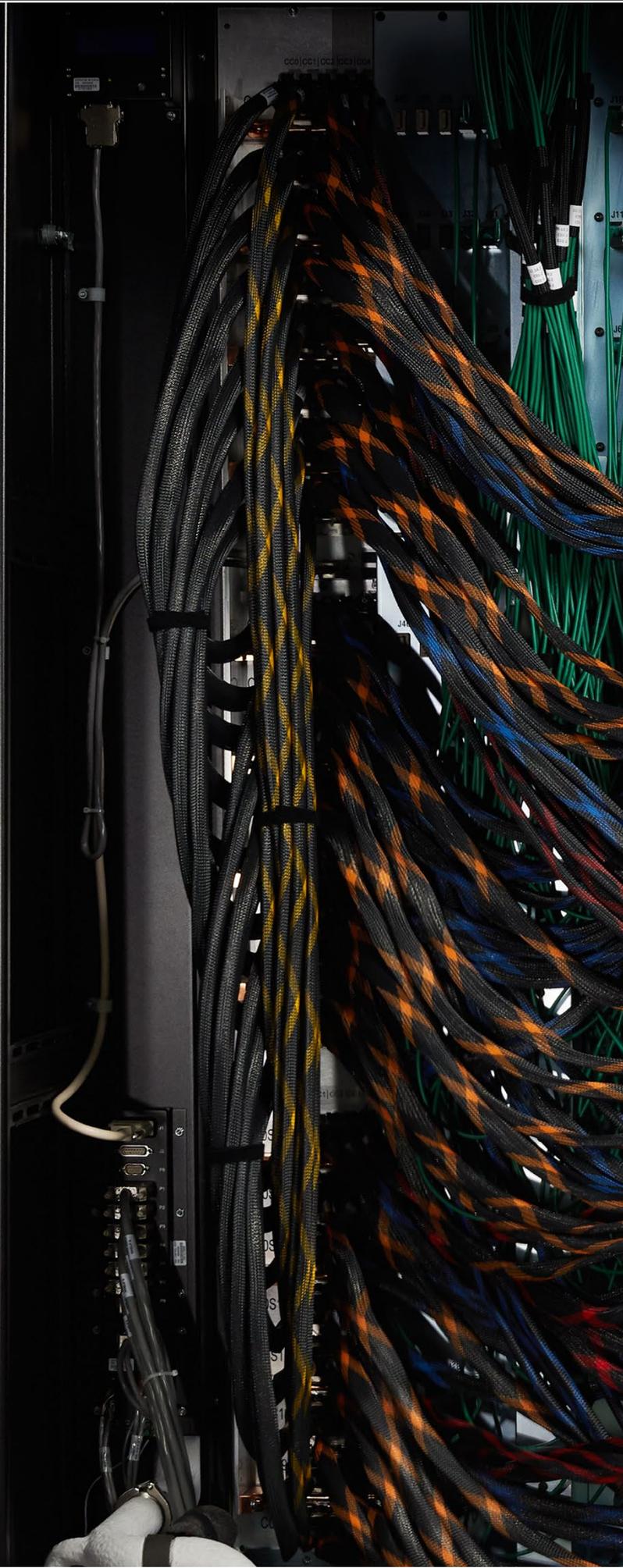




*** Oversized jacquard coat knitted in Fully Fashion technique.
The 3-coloured jacquard artwork is created using the new Stoll-artwork® extension.
One colour features a Stoll-tkat plating® design.



*** One-piece cross-functional body in Fully Fashion technique with a seamlessly integrated shoulder and collar solution.
Core-spun Lycra® with three different stretch properties are placed in those body zones where either support or compression is needed.
These elastic threads are invisibly plated on the inside of the fabric.
The front and back part of the slip are bridged with an additional weft insertion to distribute compression equally.
Mesh structures are integrated for ventilation, a better fit and for comfort.





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*** Seamless oversized sweaterdress with Fair Isle shape design.
Rendering artwork in reversed 2-colour-float jacquard is designed directly on the shape using the new
Stoll-artwork® extension.
Multifilament yarns and wool blends make for a very lightweight garment.
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*** Two-piece tights in fine gauge.

Traversal knitting direction with ikat-plated artwork insertion.

Artwork design for Stoll-ikat plating® with colour shade effect.

Jointlessly knitted-on waistband with body-forming effect.

Weft insertion with silicone yarn for better adhesion on the skin.

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*** Sockstyle shoe with heating integration around the toes.

Upper is made in Fully Fashion.

The fabric properties come from felting and invisibly-plated thermoplastic material in selective areas.

Bidirectional digital interface from Myant Inc.'s textile computing platform.





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*** Fully Fashion, traversal kimono-style shirt, knitted in one piece.
Fabric construction in 3-colour piqué with weft insertion built into the graphic at the hem section.
Using Stoll-autocreate® together with Stoll-artwork® allows for customizable artwork and
artwork positioning.
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*** 3D-shaped Fully Fashion cross body bag.
Integrated functions include zipper ports and overlap, strap tunnel and a woven-like inside pocket.
The robustness of the outer shell comes from a combination of interlock structure and PES plating
on silicone base.

STOLL-ARTWORK® IS AN EXTENSION FOR ADOBE® PHOTOSHOP® SOFTWARE WHICH BUILDS ON AND LEVERAGES THE FEATURES OF ADOBE® PHOTOSHOP® SOFTWARE SO IT CAN BE USED BY KNITWEAR DESIGNERS.

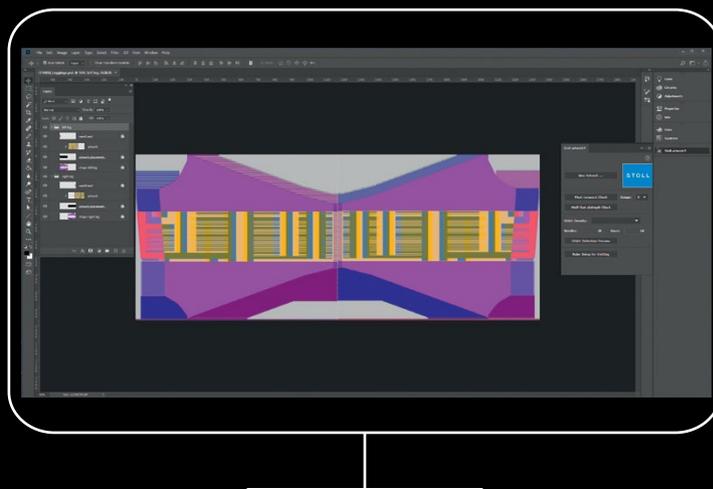
OUR EXTENSION CAN BE PURCHASED IN THE ADOBE® EXCHANGE STORE
[HTTP://SOFTWARE.STOLL.COM/ARTWORK/HELP/1.0/EN/INDEX.HTML](http://software.stoll.com/artwork/help/1.0/en/index.html)

ALL PSD FILES ARE AVAILABLE ON [PATTERNSHOP.STOLL.COM](http://patternshop.stoll.com)

SPORT TIGHTS 1710038

Psd-file name

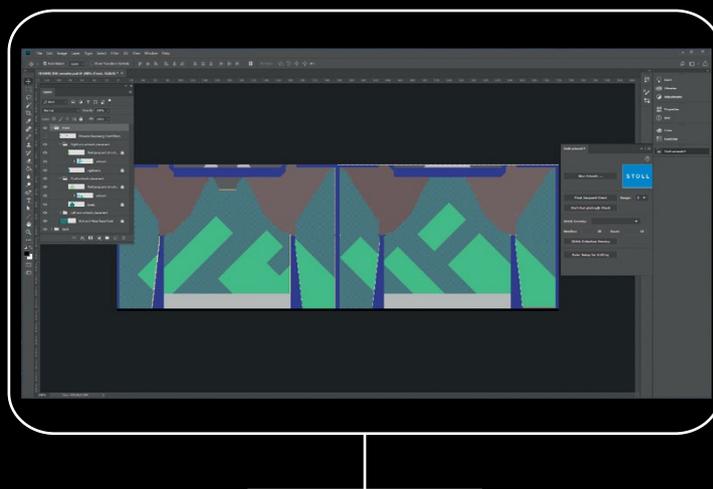
1710038_STOLL-IKAT PLATING SPORT TIGHTS.PSD



STOLL-KNIT AND WEAR® SWEATER 1810049

Psd-file name

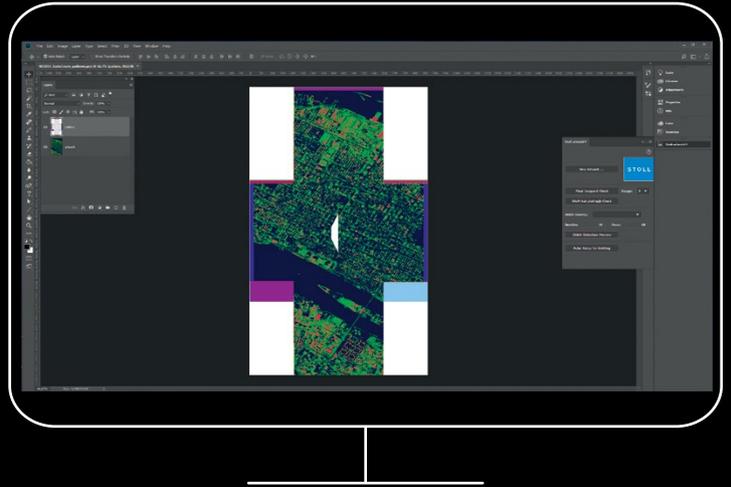
1810049_STOLL-KNIT AND WEAR SWEATER.PSD



CUSTOMIZABLE SHIRT
1810051

Psd-file name

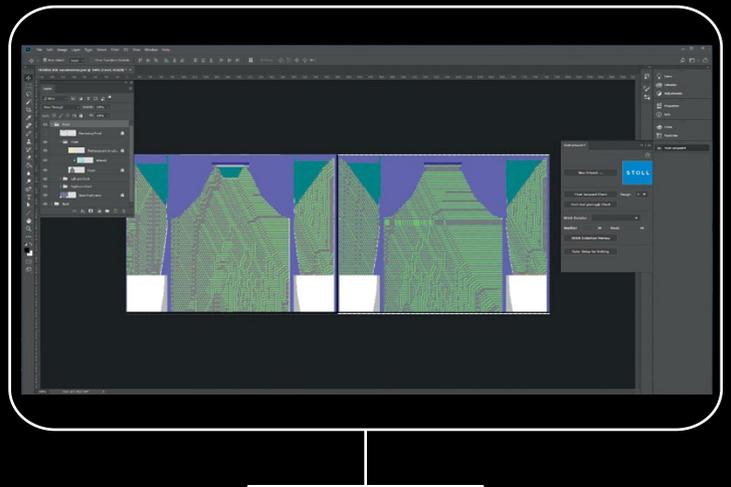
1810051_CUSTOMIZABLE KIMONO SHIRT.PSD



STOLL-KNIT AND WEAR® SWEATERDRESS
1810050

Psd-file name

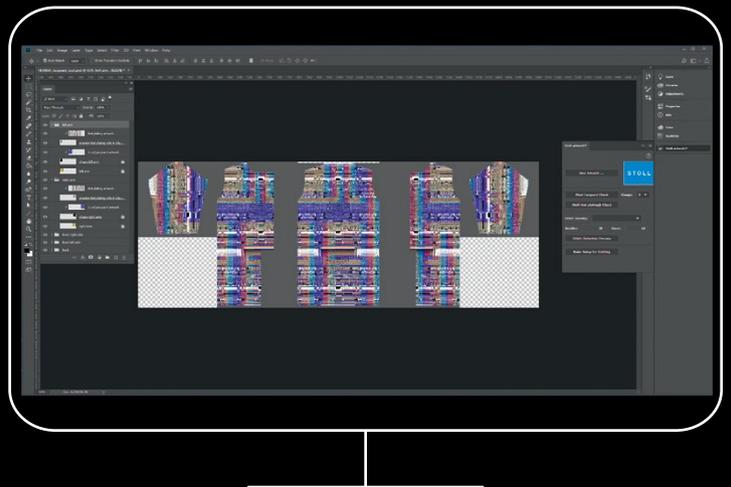
1810050_STOLL-KNIT AND WEAR SWEATERDRESS.PSD



OVERSIZED COAT
1810034

Psd-file name

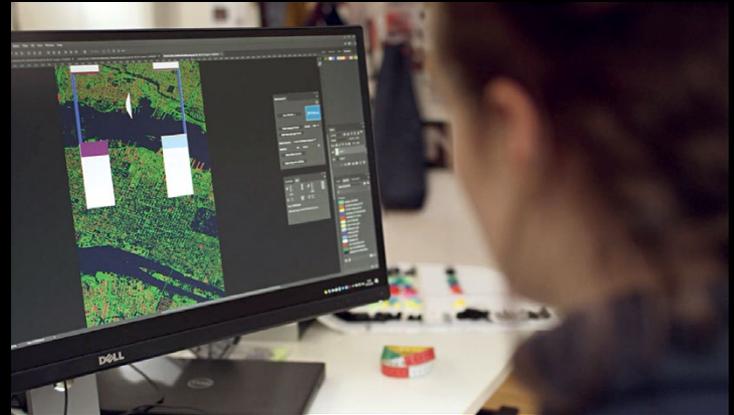
1810034_STOLL-IKAT PLATING JACQUARD COAT.PSD



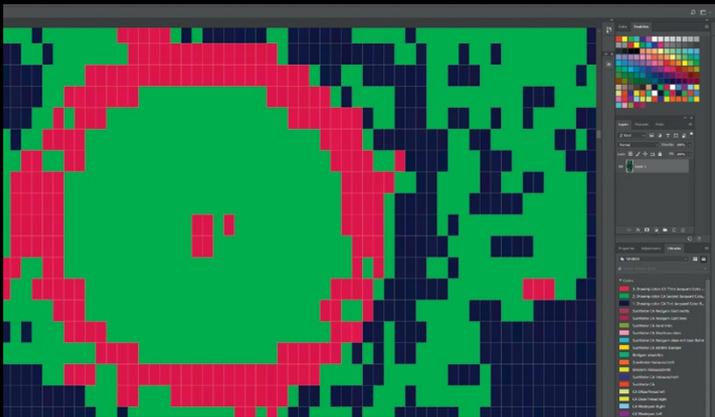
DIGITAL KNITS

WORKFLOW WITH STOLL-ARTWORK®
AND STOLL-AUTOCREATE®

As a manufacturer of flat knitting machines, we see digitalisation as a great opportunity. Our machines are particularly suitable for the production of customised pieces and for integrating complex functions into textiles. Digitalisation offers us new possibilities to apply these machines' capabilities to the creative process. Our aim is to support the designer within his world so that he can concentrate on his work and not worry too much about machine technology.



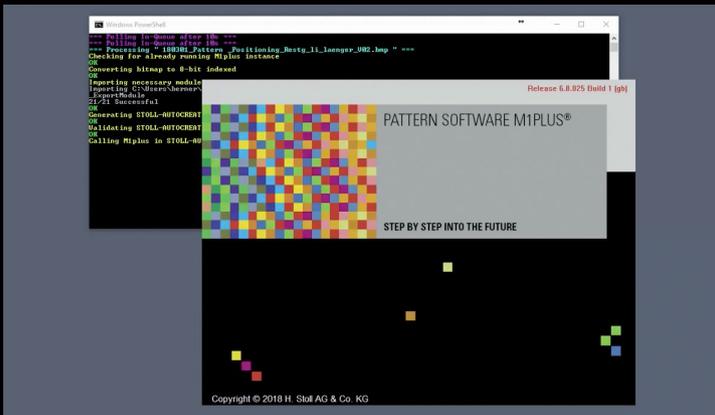
Designers feel more familiar with Adobe® Photoshop®. Originally, Adobe® Photoshop® was not specifically meant for knitwear design. That's why we developed the Stoll-artwork® extension.



Stoll-artwork® enables to simulate digitally a stitch density.



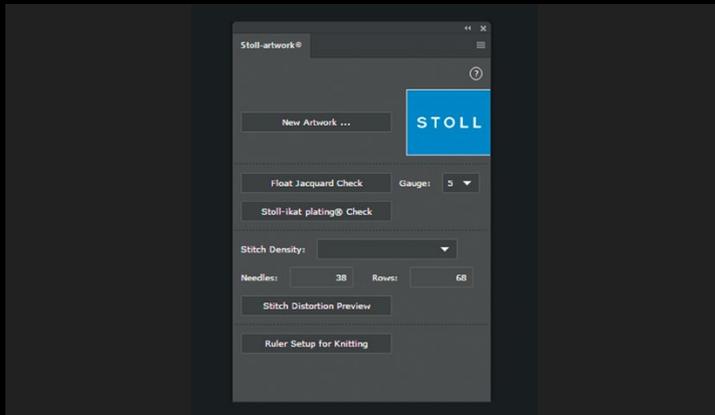
The pattern is positioned on the artwork. Usually several corrections between designer and technician or producer are necessary until the finished product. This is the main advantage of our Stoll-artwork® extension.



When finished the designer forwards the artwork as a bitmap file to the M1plus® or Stoll-autocreate®. The basic idea behind Stoll-autocreate® is the production of customised pieces.



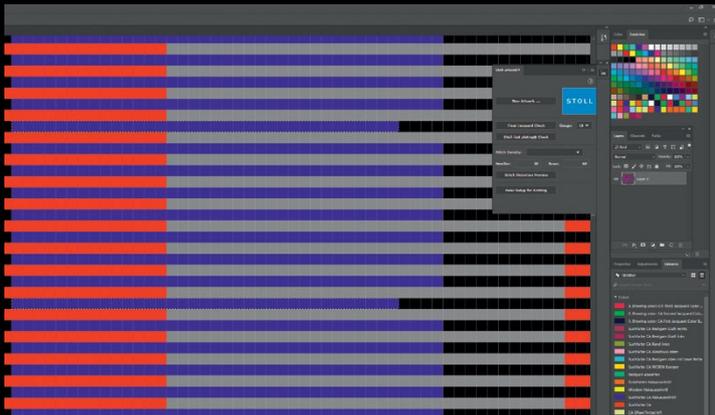
We can combine designs from Adobe® Photoshop® with customised measurements and transfer them automatically to the machine, where the product will be knitted.



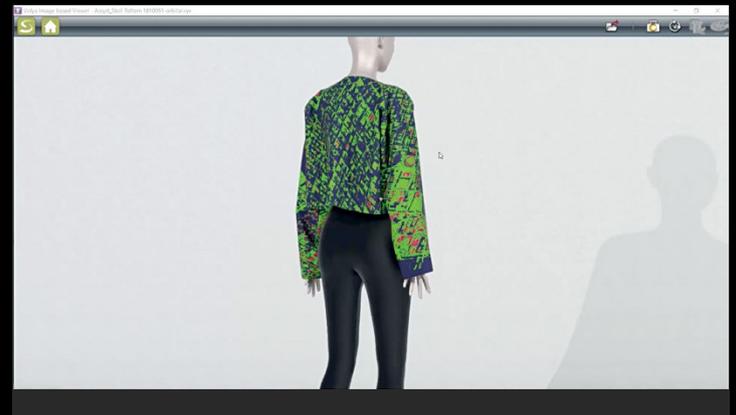
Stoll-artwork® is an extension for Adobe® Photoshop® which builds on and leverages the features of Adobe® Photoshop® so it can be used by knitwear designers.



We developed the extension with our internal software developers. Daily collaboration with the Stoll designers enabled us to make rapid progress.



Stoll-artwork® enables to check a Float Jacquard or our Stoll-ikat plating® technique based on a gauge. The graphic is being verified row by row which results in a selection of the areas that should be modified.



By simulating on a 3D avatar the artwork placement can be visualized. There are several different programs available on the market, e.g. Vidya from Assyst.



WATCH THE FILM:



[STOLL.COM/VIDEO/STOLL_DIGITAL_KNITS.MP4](https://stoll.com/video/stoll_digital_knits.mp4)

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HUMAN
SOLUTIONS
ASSYST
AVM

STOLL's smart flat knitted concept shoe is designed in collaboration with Myant Inc. and features a bidirectional digital interface from their textile computing platform.

MYANT & Co.

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MYANT

SPECIAL THANKS

We would like to express our sincere thanks to ASSYST and MYANT for their outstanding support!

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