FASTER:

FROM (CONCEPT) —

TO (STORE)
Our latest collection, FASTER: From(CONCEPT)–To(STORE), is driven by the motto of our Fashion & Technology department: “Design to Inspire”.

Contrary to best practice in the fashion industry, we encourage other companies to copy details from our Stoll Trend Collections and adapt them to their design work, focusing on style groups and price points. In the fashion industry, this is something of a rarity, as companies usually protect themselves from being copied. At Stoll Fashion & Technology, we see being copied as a reward.

Our collections are naturally very small compared to commercial collections, as we do not sell them. Instead of increasing the amount of styles, we rather enrich the content of every single piece with many technical and design features. That is why Stoll samples are typically content-rich. Every single item is like a Wikipedia for design and technical solutions and allows for a wide array of re-interpretation. In practice, one can read as many ideas out of a single piece as needed to create an entire knitwear collection.

As proof of concept, we have illustrated how one can easily re-design Stoll samples from patternshop.stoll.com to create completely new pieces. From a technical point of view they represent blueprints, as the programs and knitting technology already exist. This makes the design and development process much easier, and thus faster.

You will see how design decisions relate not only to aesthetics, but also knitting times. As the product development process starts from pre-existing technical and design solutions, this collection is also about sustainability. The number of material-intensive iterations can be reduced, lowering costs and waste. Beyond that, the STOLL knitelligence® tools allow for faster on-demand production and thus can replace slower bulk production.

With FASTER: From(CONCEPT)–To(STORE) we have demonstrated how quick and easy it is to turn our concept designs into simplified products and extract details across gauges, graphics and shapes at lower price points.

Be inspired for faster prototyping.

Jörg Harrmann
Head of Fashion & Technology
FROM (CONCEPT) TO (STORE)

FROM OVERSIZE COAT

OVERSIZE COAT

WOVEN STITCHES Autumn 2016

Pattern No. 1510033

Machine CMS ADF 32 W

multi gauge E 7.2

Production time 141 min 20 sec

STOLL-weave-in®, STOLL-ikat plating®, STOLL-applications®, Fully Fashion; bind-off, 1x1 technique, presser foot with U-groove, PTS/NPI, plating

TO OVERSIZE COAT

Pattern No. 1910052

Machine CMS ADF 32 W

multi gauge E 7.2

Production time 62 min 33 sec

APPROACH & PERFORMANCE:

To redesign a coat like 1510033 while keeping the overall design concept and a similar yarn quality, simply tweak the technical details to bring down knitting time.

How? Remove selective plating in the back piece, replace multiple weave-in yarns with one coarser weft insertion, and change inner pocket graphic from selective plating to the faster STOLL-ikat plating®.

Coarse-looking Fully Fashion oversized coat. The stitch construction resembles a woven fabric, not only visually: a STOLL-weave-in® yarn locks elasticity. The colour-plating in the base layer together with needle transfer creates an additional geometric relief effect. The pockets are directly knitted-in. A subtle ikat graphic on the inner layer of the pockets adds an extra colour detail.
FROM (CONCEPT) --------> TO (STORE)

(LONG COAT) WOVEN STITCHES Autumn 2016

Pattern No. 1510006
Machine CMS ADF 32 W
Gauge multi E 7.2
Production time 162 min 45 sec

(CARDIGAN)

Pattern No. 1910060
Machine CMS ADF 32 W
Gauge multi E 7.2
Production time 84 Min 1 sec

APPROACH & PERFORMANCE:
As you browse our pattern shop for inspiration, keep in mind that these styles can be interpreted in endless ways. Adapting the design concept, from a long Women’s coat to a Men’s cardigan, we reduced the running time while keeping the same yarns and only slightly changing the structure and details. Most significantly, the unusual 2-piece cut of the coat has been simplified into a standard pattern with set-in sleeves.

Fully Fashion Men’s cardigan in merino quality with knitted-in chest pocket, button placket, and button holes. The bodice area is slightly fitted to create a slim fit. The needle transfer structure is additionally reinforced with a STOLL-weave-in® yarn. Multiple weft insertions in the shoulder area and collar give supplementary tensile strength. An ikat graphic at the back features subtle stripes that shine through.
**APPROACH & PERFORMANCE:**

Drawing inspiration from the vest, we kept the general design idea of the fabric, while adding an extra dimension of colour and graphic. The ADF technology features provided us with further design options, like STOLL-ikat plating® and STOLL-weave-in®, without increasing costs. In addition, we also transferred the style to a more common gauge.

**PADDED JACKET**

- Pattern No.: 2010001
- Machine: CMS ADF 32 BW
- Multi gauge E 7.2
- Production time: 60 min 28 sec

**FAUX REAL Autumn/Winter 2012/2013**

- Pattern No.: 1110097
- Machine: CMS 822 HP
- Multi gauge E 8.2
- Production time: 81 min 32 sec
APPROACH & PERFORMANCE: How did we turn a deconstructed concept skirt into a commercial one? First, we changed the destroyed patchwork elements to a sleeker and more graphic look. Then, we reduced the float lengths to make it easier-care.

Wrap skirt knitted in traversal direction, featuring a graphic colour blocking intarsia design with all over STOLL-weave-in®. A decorative knit stitch connects the different intarsia areas. Each area features a different synthetic material for a techy look, while the inner shell consists of a base layer with plated wool and silk for a good skin-feel. The skirt is gored to the body shape and reinforced with thermoplastic yarn.
STOLL-artwork®, STOLL-weave-in®, Fully Fashion, intarsia plating, bind off, gore technique, presser foot with U-groove

Gored Fully Fashion crop top knitted in traversal direction. It features a graphic colour blocking intarsia design and a woven look. The one-piece top is shaped directly in the knitting process. The cups are additionally moulded with thermoplastic yarn. Each intarsia area features a different synthetic material for a techy look, whereas the inner shell consists of a base layer with plated wool and silk for a good skin-feel.

FROM (DECONSTRUCTED SKIRT) MATERIALIZATION Spring/Summer 2020
Pattern No. 1810124
Machine ADF 530-32 W multi gauge
Gauge E 7.2
Production time 80 min 53 sec

Pattern No. 1910078
Machine ADF 530-32 W multi gauge
Gauge E 7.2
Production time 26 min 21 sec

APPROACH & PERFORMANCE:
A skirt can easily become a top, speaking a new design language yet having the same technical roots: the weave-in tuck structure. The result is a commercialized and adapted style for a different target group. Shaping the top directly in the knitting process adds another twist.

more graphic/produced than in original
Approach & Performance:
In this example, we took the highly conceptual deconstructed skirt as our inspiration. It offers a wide range of design ideas that can be easily adapted. To commercialize it, yet bringing the innovative weave-in appearance to the market, we choose a classic raglan style and natural fibres for easy care.

Fully Fashion raglan pullover with destroyed look. Different intarsia areas feature various weave-in yarns combined with a tuck structure. In certain places the weft yarn transitions from one field to the other, joining the intarsia fields together. The graphic, created with the Adobe® Photoshop® extension STOLL artwork®, emphasises a used look.
Body in Fully Fashion technique. Core-spun Lycra® with 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. A float jacquard structure in the lower front and back part spreads compression equally. A mesh structure provides ventilation, a better fit and comfort.

**APPROACH & PERFORMANCE:**
Performance for everybody. We applied a gauge change, less plating areas and a reduced amount of yarn to lower the complexity and speed up the sourcing process. Nevertheless, we kept the performance and shaping function of the original style. Other than the reference piece, the collar is not knitted-in.

**FROM (CONCEPT) --------> TO (STORE)**

- **(CROSS-FUNCTIONAL BODY)**
  - **Pattern No.:** 1910043
  - **Machine:** CMS ADF 32 BW
  - **Gauge:** E 18M.16
  - **Production time:** 107 min 53 sec

- **(SHAPING BODY)**
  - **Pattern No.:** 1910077
  - **Machine:** ADF 530-32 BW multi gauge
  - **Gauge:** E 7.2
  - **Production time:** 59 min 25 sec
Fully Fashion long-sleeved polo shirt featuring an ikat aesthetic. Fabric construction in plated multi-colour piqué gives a dry handfeel. Mercerized cotton creates a shiny moiré effect. The workflow is digitized: different production steps are automatically linked for easy manufacturing. STOLL-autocreate® in combination with STOLL-artwork® allows for automated production and customizable artworks.

APPROACH & PERFORMANCE:
Drawing inspiration from the structure of the college style shorts, we developed a fine gauge polo shirt. Polo shirts are always in style. We gave it a technical update, by linking it with the digital tool kit from Stoll and ADF features like STOLL-ikat plating®.

Learn more about the STOLL knitelligence® chain on our website stoll.com.

FROM (CONCEPT) TO (STORE)

FROM (COLLEGE STYLE SHORTS) TO (IKAT POLO SHIRT)

VARSITY DENIM Spring/Summer 2015

Pattern No. 1410034
Machine CMS U30 HP multi gauge
Gauge E 7.2
Production time 53 min 22 sec
Production type Mass production

Pattern No. 1910075
Machine CMS ADF 32 BW
Gauge E 18m.16
Production time 76 min 17 sec
Production type Production on-demand
Fully Fashion, jersey-tuck structure, PTS/NPJ

Fully Fashioned basic polo shirt in a cotton quality. The piqué structure creates a dry and grainy handfeel. The collar has a knit-ted button hole and float details. The style is programmed on the brand new STOLL-CPS® Connective Pattern Software.

FROM CONCEPT TO STORE

(COLLEGE STYLE SHORTS)

VARSITY DENIM Spring/Summer 2015

Pattern No. 1410034
Machine CMS 530 HP
multi gauge E 7.2
Production time 33 min 22 sec
Software Miplus®

Pattern No. 1910062
Machine CMS 502 HP+
multi gauge E 7.2
Production time 46 min 18 sec
Software STOLL-CPS®

APPROACH & PERFORMANCE:
As well as the fine gauge polo shirt seen on page 17, we also developed an easy and universal style on a coarser gauge that runs on our economic machine.

*For more details go to page 24
APPROACH & PERFORMANCE:
Pointelle and honeycomb structures are commercial and seasonless. The original piece combines different structures next to each other. Transforming the style to a coarser gauge, an economic machine, placing the pointelle structures differently and eliminating the elastic yarn optimizes price points.
**BETWEEN WORLDS** Spring/Summer 2012

**FULLY FASHION SLIPOVER**

Pattern No. 1010305
Machine CMS 830 C
Gauge E 2,5.2
Production time 27 min 49 sec
Software M1plus®

**APPROACH & PERFORMANCE:**

Our STOLL-knit and wear® pieces can easily be transformed into Fully Fashion styles. We did so by morphing the structure into a sleeveless pullover. The STOLL-knit and wear® Men's piece is transformed to a more compact, less see-through Women's style, that runs on an economic machine.

*for more details go to page 24

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**FURTHER DETAILS**

- **Fully Fashion, pointelle, 6x6 cable, purl, 1x1 technique, layer technology, PTS/NPJ**
- **Coarse sleeveless pullover with pointelle structure, Side panel with cable and links-links structure. Programmed on STOLL-CPS® Connective Pattern Software.**
HOW THE NEW STOLL-CPS® CONNECTIVE PATTERN SOFTWARE SIMPLIFIES AND SPEEDS UP YOUR DEVELOPMENT PROCESS

**Batch Processing Speeds Up Your Program Setup**
With the new order management, you can make changes on different parts and sizes at once, simultaneously — so there's no need to laboriously modify each individual garment piece or size anymore.

**Faster to Create and Change Modules**
You can adjust embedded colour arrangements and modules directly in the pattern program. Even after technical editing, you can simply make changes without having to go back to the basic pattern.

**Stay on Top of Things Simply**
You can change basic, expanded, graphical shape view and line shape view simultaneously. They update themselves automatically — no "technical editing" or refreshing buttons needed. Saves time and hassle.
The STOLL-CPS® Connective Pattern Software offers you even more advantages – from a modern, clear surface to the full integration of the STOLL-GKS® Grading for Knitting System. A graphical shape-editor makes it easier to create shapes, and helps to keep the shape in focus, working only with outlines.

The STOLL-CPS® Connective Pattern Software is a tool that adds value to any knitting factory, making creating knitting programs faster, simpler and more efficient. Get in touch to learn more.

Get a realistic preview of your knitted fabric, reducing the number of prototypes – now with stitch distortion.

Knitting preview without stitch distortion

New: Knitting preview with stitch distortion

Avoid errors – directly start knitting

Knitting sequences are created with a click of a button in the STOLL-CPS®. All of the settings related to each program – for example, the yarn carrier positions – are automatically taken into account.
STOLL-artwork® is an Adobe Photoshop® extension that simplifies the creation and redesign of graphics. Exported BMP files can be sent to the manufacturer to simplify the workflow. This way you stay in control of the final result. Changing existing PSD files from our patternshop further speeds up the process.

Just brief your manufacturer about your source of inspiration in the patternshop, as they can download related machine programs on our website. This helps with faster sampling and saves wasteful iterations.

Patternshop.stoll.com is an excellent source for design ideas and technical inspiration alike. Stoll provides this valuable service copyright-free.

As a designer you can use the patternshop to download high resolution images for moodboards and tech-packs. You will also find all important yarn information and Adobe® Photoshop® files related to each style.

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From (CONCEPT) — To (STORE)

STOLL KNITELLIANCE® TOOLS

PATTERNSHOP | ARTWORK CREATION | PROGRAMMING

GRADING | CUSTOMIZATION | AUTOMATIC PRODUCTION | PRODUCTION PLANNING
STOLL HEADQUARTERS

GERMANY
H. STOLL AG & CO. KG
STOLLweg 1 - 72760 Reutlingen
Tel +49 712151310 - Fax +49 7121513110
contact@STOLL.com - www.STOLL.com

STOLL FASHION & TECHNOLOGY GERMANY
H. STOLL AG & CO. KG
STOLLweg 1 - 72760 Reutlingen
Tel +49 712151310 - Fax +49 7121513426
fashion.technology@STOLL.com - www.STOLL.com

STOLL BRANCHES & AGENCIES

FRANCE
SAS STOLL FRANCE SERVICES
87, Avenue Henri Barbusse - 92140 Clamart
Tel +33 141088383 - Fax +33 141088500
STOLLfrance@wanadoo.fr

ITALY
STOLL ITALIA SRL.
Via Siemens, 3/A - 41012 Carpi (MO)
Tel +39 059651899 - Fax +39 059652314
STOLLitalia@STOLL.it

USA, CANADA
STOLL AMERICA KNITTING MACHINERY, INC.
250 West 39th Street (Ground Floor) - New York - NY 10018
Tel +1 2123983869 - Fax +1 2129217639
info@STOLLamerica.com

JAPAN
STOLL JAPAN CO. LTD.
Minato-Ku - Shibaura 4-16-23
Tel +81 337693690 - Fax +81 337693694
morosawa@STOLLjapan.jp

INDIA
STOLL INDIA PVT. LTD.
C-25, Sector 63 - 201 301 Noida - Uttar Pradesh
Tel +91 1204690850 - Fax +91 1204690851
saran@STOLL-india.com

CHINA, HONG KONG, TAIWAN, THAILAND, VIETNAM
CHEMTAX (STOLL) COMPANY LTD.
Flat G, 7/F, Phase 2 - Kei Shing Industrial Building -
42-46 Tai Lin Pai Road - Kei Cheng, K.T. - Hong Kong
Tel +852 23686269 - Fax +852 27212687
annie.tse@chemtax.com

BANGLADESH
STOLL BANGLADESH LTD.
House 58, Road 10, Block K - Baridhara, Dhaka-1212 - Bangladesh
Tel +88 029951919
ali.akbar@STOLL.com