knitelligence®
YOUR ACCESS TO THE FUTURE OF KNITTING
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THE PERFECT TOOL CHAIN TO MAKE YOUR IDEAS BECOME REAL

knitelligence® is the answer to rapidly increasing digitization, process automation, shorter and transparent production cycles and an increased need for individual production.

Combining STOLL’s software solutions under one platform, knitelligence® covers the entire value chain of the flat knit production. From design to production, knitelligence® can be easily integrated into existing customer processes.
STOLL-ARTWORK®
THE ADOBE® PHOTOSHOP® EXTENSION

The knitting support in Adobe® Photoshop® allows for better communication between designers and technicians and thus for an optimized pattern development process. Our aim is to support designers in their world so that they can focus on their work and not worry too much about machine technology.
Your benefits:

Using STOLL-artwork®:
• Designers are assisted with digital preview options of stitch density distortions
• For faster prototyping, vector shapes can be imported in the equivalent dimension and positioned on the artwork before programming in M1Plus®
• Artworks can be created respecting knitting specifications without deeper knitting knowledge
• The correct specifications for the corresponding knitting technique will be respected (for example STOLL-ikat plating® graphics)

• The correct dimensions, quantity of color and details are taken into account so that in further process steps the knitting technician does not perform adjustments which will deform the design
• Designers remain within their tooling environment, taking advantage of the multitude of graphical possibilities
• Barriers between designers and technicians are lowered
STOLL`S PATTERN SOFTWARE FOR THE EFFICIENT CREATION OF KNITTING PROGRAMS

MANY FEATURES TO SIMPLIFY PATTERN CREATION

FAST AND EFFICIENT

- Pattern creation with just a few clicks – simple patterns are really simple!
- Numerous automatic knitting solutions (knit & wear support, ready pattern solutions, shape templates)
- Pattern adjustments can be made directly on the machine
- Changed setup data from the machine can be returned M1plus® for multiple patterns at the same time

MANY VIEWS, MODES AND EXTENSION OPTIONS

- Symbol view, Fabric view, Technical view – automatic parallel calculation of the different views
- GKS (optional)
- STOLL-autocreate® (optional)
- Argyle tool
- Shape editor
- Module support
- Machine explorer
- Knit & wear mode

FLEXIBLE AND INDIVIDUALLY CUSTOMIZABLE

- Programs from previous M1 or M1plus® versions can be easily loaded and edited
- Color Arrangements (CA) and Module Arrangements (MA) can be used
- The knitting modules can be easily modified, created and reused by the program technician
- Any existing M1plus® pattern can be loaded and converted for a different STOLL machine within the same gauge

WIDE RANGE OF APPLICATIONS

- Fully Fashion
- Intarsia
- STOLL-multi-gauges®
- STOLL-flexible gauges®
- STOLL-devoré knit®
- STOLL-weave-in®
- STOLL-ikat plating®
- STOLL-knit and wear®
- Inverse plating
- Intarsia plating
- Selective plating
- Plush
- etc.
FULLY AUTOMATED PATTERN GENERATION

With STOLL-autocreate® individualized knitwear patterns are created in a fully automated way and without interactive intervention according to a defined list of instructions.

Your benefits:

- Fully automated pattern generation process
- Generation of different knitting pattern variants
- Realization of individual processes and procedures
- Creation of sets of sizes via image modifications
- Creation of custom garments "on-demand" (via the web for example) – Mass customization
- Bandages made to measure are automatically generated from the body measurements
Creating and grading shapes is no longer a challenge!

GKS is a highly efficient tool for shaping and grading, with which knitting programs can be completely parameterized and edited in M1plus® afterwards.

Fast, easy and effective, GKS includes fully dimensioned and functional shape templates for all conventional pattern variants in the fashion industry. Thus, an initial prototype can be created in no time and then changed as desired - resizing and pattern adjustments can be accomplished in a very short time.
COMPATIBLE WITH M1plus®

- Can be installed as a stand-alone program or together with M1plus® on a PC
- Shape parts are transferred directly to M1plus® for pattern creation
- GKS shapes already come with all knitting information. Thus in many cases M1plus® is only used as a pattern generator
- Shapes or generated patterns in GKS can be changed afterwards in M1plus®

QUICKLY AND EFFICIENTLY

- Grading with just a click of the mouse: the first fully dimensioned prototype can be created in an instant
- A prototype can be modified or different shape variants created
- Information such as the type of the starts, narrowing or similar, can be defined or changed together for all sizes
- Stripe, graphic patterns, shapes and colors correlate with the sizes and can be automatically adjusted
- Shape elements can be freely positioned and dimensioned

INTUITIVE AND USER-FRIENDLY

- Fast and easy to learn
- Integrated didactic support: http://software.stoll.com/gks/help/
- Measurements can be derived from one another with formulas
- Colors can be assigned to yarns and the yarn consumption can be calculated in percentage and grams
- Exact scale printing (for example on a plotter)
- All shape parts and sizes in a single file
- Only minor M1plus® knowledge required
FEEL FREE WITH MORE SIN SECURITY

SINTRAL CRYPTO INFRASTRUCTURE
A knitting program represents significant economic value, since it contains specific internal know-how about knitting techniques used, the company’s future trend collections, etc. With Sintral Crypto Infrastructure knitting programs can be encrypted and thus the company’s intellectual property is protected.

Encrypted programs are ...
- only knittable in the target machines
- only knittable during the predefined period of time
- unreadable for human beings at all time

**Benefits for program issuer:**
- Avoid legal conflicts due to plagiarism, unauthorized copying or theft of intellectual property
- Protection against manipulation of knitting programs
- Outsourcing of knitting production without risk of litigation: trust knitting subcontractors without the need for additional surveillance measures

**Benefits for machine owner:**
- Can be qualified as a production partner for high-quality brands which are particularly prone to plagiarism
- Supervision measures such as the monitoring of employees are unnecessary
- Prevention of litigation with partners
SHORTER REACTION TIMES THANKS TO:

- Timely alerting of deviations
- Operators' alarm-support
- Quick visual monitoring of plan deviations
- Graphical display of production cycles in real time
- Mobile access
- Efficient support via team viewer
- Easy forwarding of log-ins through the feedback function
- Operator support with remote access via VNC

SIMPLE AND TRANSPARENT PRODUCTION PLANNING THROUGH:

- Quick finding of suitably equipped machines
- Automatic planning
- Quick view of the capacity and order assignment of all machines
- Increased planning reliability by calculating time production using operations calendar
- Quick analysis of production capacity
- Status view
- Planning of yarn quantities
- Mobile access
SUPPORT OF YARN LOGISTICS:

- Minimization of yarn stocks through accurate yarn requirement calculations
- Accurate yarn ordering thanks to daily yarn requirement reports

AUTOMATION AND MACHINE MANAGEMENT:

- Automatic data transfer to ERP or vice versa
- Direct quality management at the machine via ticket or user states
- Ticket view with barcode, pictures and setup information
- Configurations (profile, toolbar), security and basic settings can be easily transferred to all machines at the same
- APM (Auto Production Mode)

DATA EVALUATION:

- Analysis to eliminate sources of error / identification and analysis of weaknesses and causes of problems in the production chain
- Analysis of stop causes for implementation of corresponding countermeasures
- Analysis of the quantity of produced pieces for internal evaluation
- Determination of production times for cost accounting

PPS LINKS THE ENTIRE KNITTING PRODUCTION CHAIN: FROM THE ERP VIA M1plus® AND ALL VARIANTS OF THE OKC AND EKC FLAT KNITTING MACHINES THROUGH TO SUBSEQUENT PROCESSES
YOUR PRODUCTION IS WHERE YOU ARE
Benefits:

• Accept additional orders
• Ensure on-time deliveries
• Secure order commitment
• Reduce of planning time
• Increase planning reliability
• Increase production capacity
• Increase material flow
• Reduce throughput times
• Reduce setup time
• Reduce idle time
• Make faster decisions
• Improve production monitoring
• Enjoy real-time information
• Reduce downtime
• Offer fast order commitment
• Reduce service response times
• Enhance efficiency through implementation of suitable measures
• Increase transparency
• Reduce the reject rate
• Improve production monitoring
• Reduce the error rate
• Use staff more sensibly
Fully automatic knitting of orders without manual intervention – with PPS and APM you master the challenge. After a knitting order is sent by PPS to a machine equipped with APM, the production begins without manual intervention. After its completion, the next knitting program is automatically loaded and started.
With EKC (Extended Knit Control), your machines become even more productive: it offers extended features, extended possibilities and simplified usage to optimize and enhance the whole knitting production process. EKC is user-friendly, quick to learn and makes your daily business easier. It is an important part of knitelligence® – designed to create the most powerful and effective production plants for knitting machines.

With the order-oriented and task-related graphical user interface, anyone can produce complicated knitted products after just a short training period. With the newly developed guided troubleshooting, you can handle every situation that occurs during production. By using these new features, the whole knitting production process is optimized and enhanced. Your productivity will increase and costs decrease.

Your benefits:

- Simplified patterning
  - Pattern view
  - Advanced yarn carrier overview
- Better learning curve
  - User profiles
  - Task-oriented workflows
  - Tool tips
  - Guided troubleshooting
- Reduced yarn waste through “interrupt fabric”
- Smooth integration into STOLL PPS
knitelligence®
YOUR BENEFITS AT A GLANCE

Optimized workflow thanks to consistent toolchain

Increase in productivity

Improvement of response times and adherence to schedules

Improvement of plant efficiency through real-time transparency

Fast error source identification

Cost reduction

Less waste and higher quality. Reduction of logistic and personnel costs due to higher levels of automation

Opening of new markets thanks to production of customized garments

Employee motivation and efficient deployment of personnel

FOR MORE INFORMATION VISIT: STOLL.COM/KNITELIGENCE