

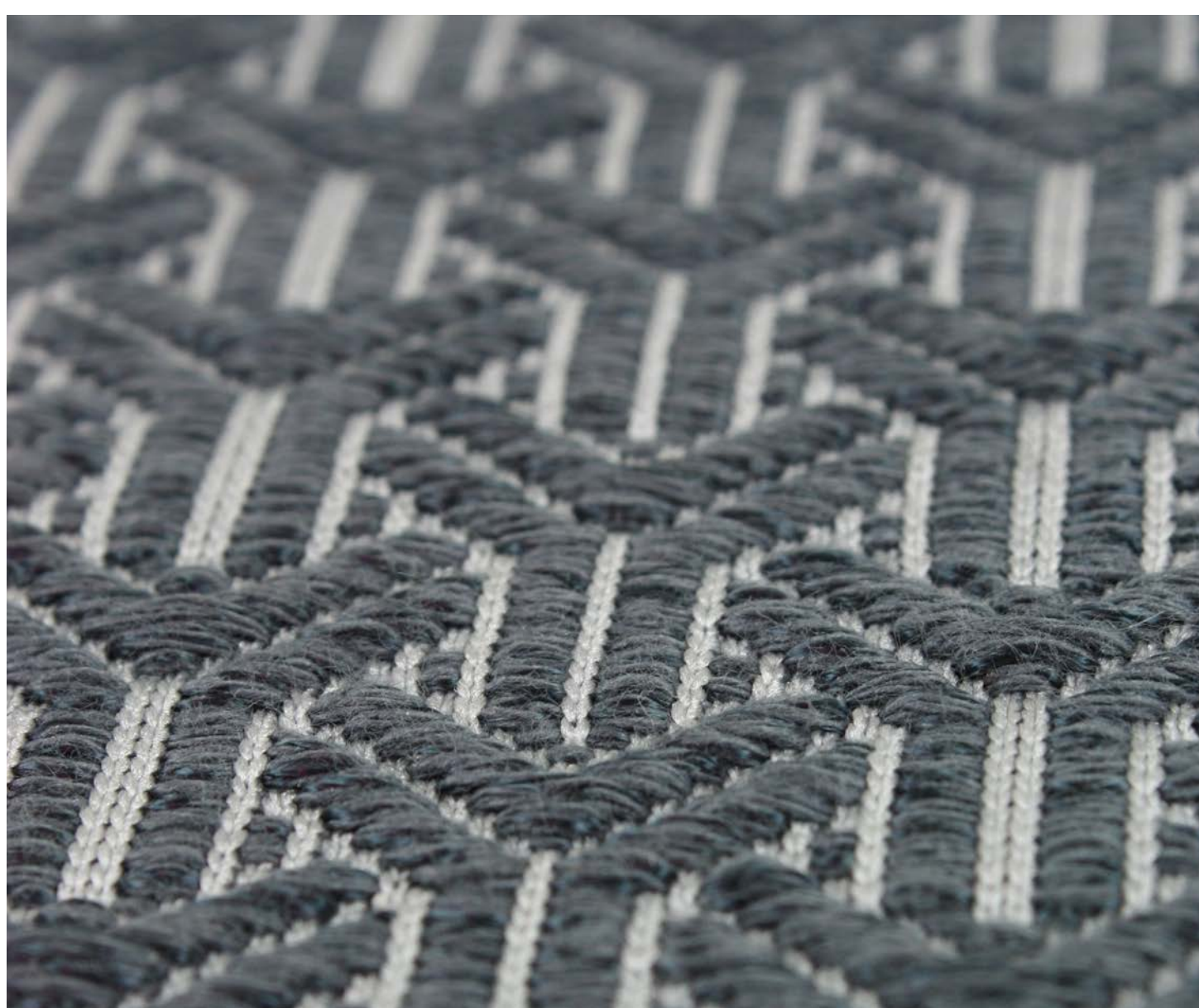
STOLL



KNITTING PERFORMANCE FOR ALL CASES  
STOLL PERFORMER MACHINES

# CONTENTS

CMS INTRODUCTION	3
NEW KNITELLIGENCE® MACHINE GENERATION	4
WORLD OF PERFORMERS	5
PATTERNS	6
MULTI GAUGE	8
MACHINES	10
FEATURES	16
5.2" DISTANCE	18
EKC	19
TECHNICAL DETAILS	20



#### **STOLL-weave-in®**

- Swatch in Stoll-weave-in® Y-Patterning with weft insert between jersey transfer structure.
- Weft insert in yarn feeder no. 4 with tip E7-8, via yarn storage feeder.
- Presser foot with U-groove

**Pattern No. 1810007**

# THE MARKET CHANGES. FACE IT WITH CONSTANT AND RELIABLE PRODUCTIVITY

**Visionary, creative and with customized solutions – STOLL offers innovative tools and services for the knitting of tomorrow.** The solid STOLL Performer machines are a significant enhancement. They offer all-round productivity and produce even the most complex garments in high quality – quickly and reliably. The Performers rely on the proven STOLL CMS technology, which opens up an unlimited variety of patterns for knitting production. The short setup time allows you to immediately react to the trends in the ever-changing market. For great output and even better income.



# KNITELLIGENCE® MACHINE GENERATION

# CONNECTING

# INNOVATION & EXPERIENCE

The new performer knitelligence® generation fulfils special requirements of the modern digital era by combining the advanced machine technology with new and innovative features. With this machine generation, your company will remain competitive with process automation, more transparency, shorter reaction times, shorter production cycles and higher productivity.

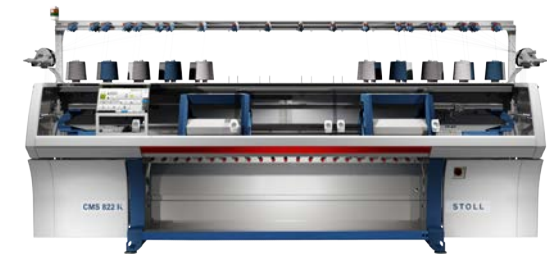
The new performer knitelligence® generation offers:

- New Multi-Touch Panel with improved legibility, useability and new gestures
- Remote desktop to M1plus®, PPS, e-Spareparts catalogue, etc.
- PPS: Extended Knit Report without EVP; Many new features
- STOLL-knitrobotic®
- Individual registration via RFID
- QR- and Barcode-Scanner
- Import and export machine configuration
- 1 system Devoré-kit
- Belt take-down machines with comb
- CMS 502 ki models now with STOLL-multiflex® take-down
- Yarn carrier upgrade on ADF 530-16 models to 24 (coarse gauges) or 32 (fine gauges)
- ASCON® for ADF machines with direct yarn feeding; without lateral covers

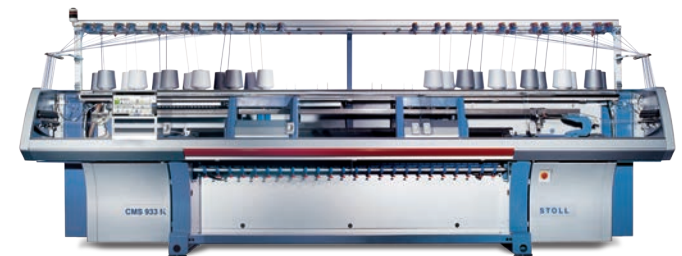
# ENTER THE WORLD OF PERFORMERS



**All-round productivity through high quality and increased output – that is exactly what STOLL offers with its Performer machines.** Depending on the CMS machine model, there are two, three, four or even six fully fledged knitting systems. Thus, even the most complex garments can be knitted in a short amount of time. Besides that, the proven STOLL CMS technology guarantees an unlimited variety of patterns, which means even more flexibility for your knitting production.



Performer machines offer efficiency, flexibility and reliability for Fully Fashion knitting – just what today's knitting factories demand. Because only those who can react immediately to fast-changing trends can compete in the fashion and textile industry.



# A MATTER OF PATTERN

**STOLL CMS machines are specially designed to produce fascinating pattern effects:** thanks to the proven STOLL CMS technology, applications, different gauge looks and structures can be realized reliably. With the STOLL pattern software M1plus®, you benefit from numerous built-in automatic functions: create unimaginable pattern looks and sizes for production in no time - the best choice for varied knitting. With a Performer CMS from STOLL, the possibilities are practically limitless. Simplify your daily work and optimize the whole knitting process with STOLL CMS machines and software solutions.



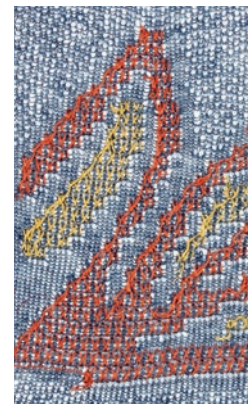
Pattern No. 1510060



Pattern No. 1510063



Pattern No. 1310065



Pattern No. 1310012



Pattern No. 1210131



Pattern No. 1210144

FIND THESE PATTERNS AND MANY MORE ON:  
[PATTERNSHOP.STOLL.COM](https://www.patternshop.stoll.com)





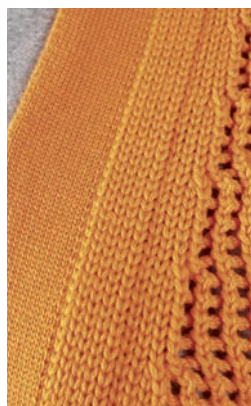
Pattern No. 1410108



Pattern No. 1510050



Pattern No. 1110273



Pattern No. 1510076

### **FINE TO COARSE STITCH LOOKS**

From super-fine to ultra-coarse garments – the most diverse gauge looks can be achieved, even within one single garment.

### **STOLL-DEVORÉ KNIT®\***

The interplay between transparent and opaque structures opens up interesting design effects with the STOLL-devoré knit® technology.

Kit is now also available with 1 system. Your benefits:

- It can also be mounted in a 2-system machine
- Any yarn can be used as binding thread

### **STOLL-RACKING EFFECTS®**

Knit oblique racking patterns in multiple-layer knitted fabrics with STOLL-Racking effects® – for example crosstubular patterns or rib patterns with a choice of any width of transfer area.

### **STOLL-APPLICATIONS®**

With STOLL-applications®, a substantial part of the composition process can be eliminated: pockets, closed pocket linings, button tapes and button holes, overlapping collars, eyelets, loops and much more can be simply and perfectly incorporated into the article while knitting.

### **PLUSH\***

For fluffy garments with more volume: three-dimensional pattern effects are possible with the help of the optional plush device from STOLL.

### **STRUCTURES**

The most diverse garment structures can be realized with the unique STOLL holding-down technology of the Performer machines: whether it's a racking pattern such as cable stitch, aran, petinet pattern knits or a jacquard pattern. The CMS machine generation implements every design idea easily and reliably.

### **PLATING**

Special two-color patterning effects are achieved by using the plating technique. Reliable plating, even for difficult yarns and patterns, can be knitted using the plating kit: even when using elastic or glossy yarn types.

### **INTARSIA**

Today, Intarsia patterns are an essential component of trendy fashion collections. From classic argyle patterns to extraordinary avant-garde patterns – the ideas know no bounds. The Performer machines in the STOLL CMS machine generation are already prepared for Intarsia as standard\*\*. Intarsia fabrics are made especially easy as the optional Intarsia yarn carriers can be set up extremely quickly and easily.

\* Except CMS 502 ki +, CMS 520 C+, and CMS 822 ki models

\*\* Except CMS 502 ki + models

# MULTI GAUGE MACHINES BY STOLL

**Fine today, coarse tomorrow: all Performer machines are available as STOLL-multi gauges® variants, giving you even more flexibility.** The patent-protected knitting technique allows knitting in multiple different gauges within one garment, on a single machine, without needle exchange or gauge conversion.

The reason for this strong performance lies in a little detail: STOLL offers an unique needle with a spring-loaded latch, specially shaped hook and other geometric elements that allow take-up of larger amounts of yarn and secure holding of multi-thread yarn. This makes it an important factor in saving yarn and producing reliable garments. Furthermore, its robust construction ensures it lasts longer than average needles.

With STOLL-multi gauges® you reduce the need for additional investment in machinery, as only one model is needed to produce different knitting looks. The utilization of each machine increases and a quicker reaction to trends and individual requirements is possible: from super-fine to ultra-coarse – STOLL-multi gauges® guarantee the full variety.

#### Your advantages with STOLL-multi gauges®:

- Flexibility
- Time savings
- Cost-effectiveness
- Sustainability





Dress front part with colour and structure stripes with hem in double Jersey with pointelle structure, shaping by gore technique. Ready-made across the knitting direction.

Pattern No. 1510026



Cap in gore technique with 3x3 cables.

Pattern No. 1510001



Fully Fashion Pullover in 1x1 technique with pointelle structure and V-neck.

Pattern No. 1510047



Fully Fashion jersey Pullover with French shoulder and V-neck.

Pattern No. 1510045



STOLL-weave-in\*

- Tee with STOLL-weave-in\* in back shoulder yoke and knitted-in reflective yarn
- Fabric: 3-system knitting, striped-plated jersey with different amounts of yarn ends.

Pattern No. 1710025



Plush

- Swatch with selective plush stitch areas.
- Different plush density on body mapping areas.
- Net structure for breathable areas.
- Plush knitting with optional plush equipment: ID 276363

Pattern No. 1810096

# FIND YOUR RIGHT PERFORMER



**Features:**

- 10 normal yarn carriers
- 2 plating yarn carriers
- 2 fully fledged knitting and transfer systems
- 8-fold friction feed wheel on the right side
- 12-fold thread clamping and cutting device on the right side

**CMS 502 ki**  
**CMS 502 ki multi gauge**

**Working width:** 45"/114 cm  
**Gauge range:** E 7-18 | E 2,5.2-7.2\*

**Features:**

- Take-down system:
  - STOLL-multiflex®
  - Auxiliary
  - Comb

**Functionality:**

- Masters your everyday Fully Fashion fabrics

**CMS 502 ki Bc**  
**CMS 502 ki Bc multi gauge**

**Working width:** 45"/114 cm  
**Gauge range:** E 7-18 | E 2,5.2-7.2\*

**Features:**

- Take-down system:
  - Belt (B)
  - Comb

**Functionality:**

- Masters your everyday Fully Fashion fabrics
- Makes challenging gores, patterns with large width variation and production of fabrics with strong elastic properties such as braces possible



**CMS 520 ki C multi gauge**

**Working width:** 50"/127 cm  
**Gauge range:** E 1,5.2 | E 2.2

**Features:**

- 12 normal yarn carriers
- Closed spring-loaded holding-down jacks
- 2 fully fledged knitting and transfer systems
- 8-fold friction feed wheels (left/right)
- 8-fold thread clamping and cutting device (left/right)
- Take-down system:
  - STOLL-multiflex®
  - Auxiliary
  - Comb

**Functionality:**

- Ultra-coarse fabrics with local knitting such as deep gores, pockets, etc. are knitted in a more reliable way
- Ultra-coarse knitting products with hand-knit appearance



**CMS 530 ki**  
**CMS 530 ki multi gauge**

**Working width:** 50"/127 cm  
**Gauge range:** E 5-18 | E 2,5.2-10.2\*

**Features:**

- Take-down system:
  - STOLL-multiflex®
  - Auxiliary
  - Comb

**Functionality:**

- All classic knitting techniques as well as the economical and efficient production of complex patterns and fabrics

**Features:**

- 12 normal yarn carriers
- 3 fully fledged knitting and transfer systems
- 8-fold friction feed wheels (left/right)
- 8-fold thread clamping and cutting device (left/right)

**CMS 530 ki Bc**  
**CMS 530 ki Bc multi gauge**

**Working width:** 50"/127 cm  
**Gauge range:** E 5-18 | E 2,5.2-10.2\*

**Features:**

- Take-down system:
  - Belt (B)
  - Comb

**Functionality:**

- All classic knitting techniques as well as the economical and efficient production of complex patterns and fabrics
- Challenging gores with large width variation and strong elastic properties such as braces

**CMS 530 ki W**  
**CMS 530 ki W multi gauge**

**Working width:** 50"/127 cm  
**Gauge range:** E 10-18 | E 6.2-10.2

**Features:**

- Take-down system:
  - STOLL-multiflex®
  - Auxiliary
  - Comb
- Weave-in device (W)

**Functionality:**

- All classic knitting techniques as well as the economical and efficient production of complex patterns and fabrics
- Woven knits with loom-like optics with loom-like properties

\* System distance / gauge range: 5" / E10 - E18; E6.2 - E10.2 | System distance / gauge range: 5.2" / E5 - E8; E2,5.2 - E5.2

## MACHINES



**CMS 530 ki BcW**  
**CMS 530 ki BcW multi gauge**

**Working width:** 50"/127 cm  
**Gauge range:** E 10-18 | E 6.2 - E10.2

### Features:

- 12 normal yarn carriers
- 3 fully fledged knitting and transfer systems
- 8-fold friction feed wheels (left/right)
- 8-fold thread clamping and cutting device (left/right)
- Take-down system:
  - Belt (B)
  - Comb
- Weave-in device (W)

### Functionality:

- All classic knitting techniques as well as the economical and efficient production of complex patterns and fabrics
- Woven knits with loom-like optics with loom-like properties in combination with challenging gores and patterns with large width variation



**CMS 730 ki T**

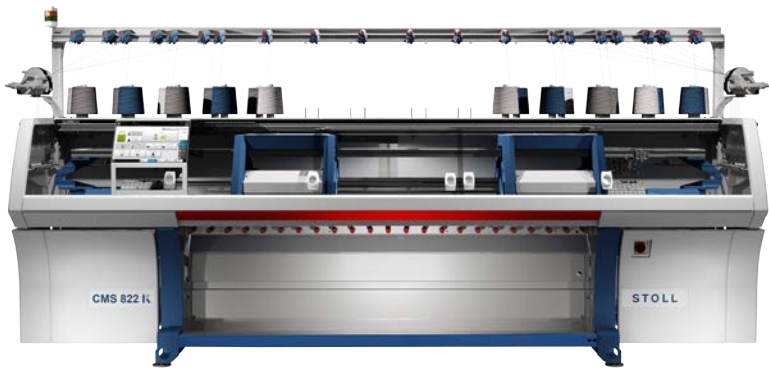
**Working width:** 72"/183 cm  
**Gauge range:** E 12 | E 14

### Features:

- 16 normal yarn carriers
- 3 fully fledged knitting and transfer systems
- 8-fold friction feed wheels (left/right)
- 8-fold thread clamping and cutting device independent of the carriage (left/right)
- Take-down system:
  - STOLL-multiflex®
  - Auxiliary
  - Comb

### Functionality:

- Knits large articles or several small ones
- Equipped with additional transfer beds allowing optimized and productive transfer cycles on double jersey and tubular fabrics (e.g. narrowing on double jersey)



**CMS 822 ki**  
**CMS 822 ki multi gauge**

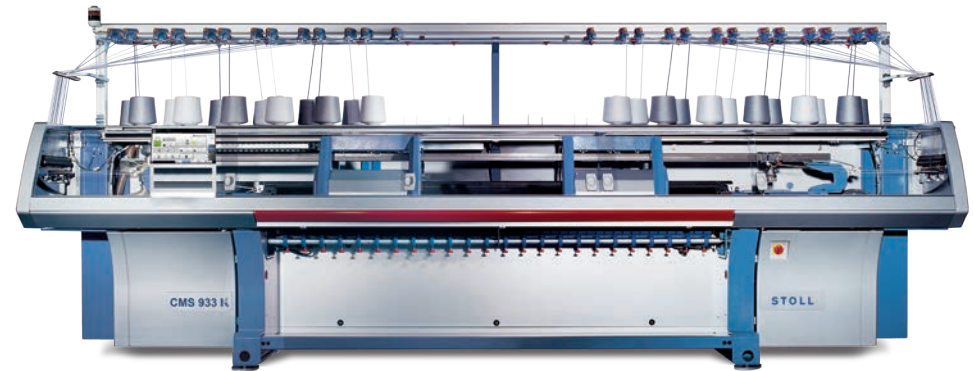
**Working width:** 84"/213 cm  
**Gauge range:** E 5-18 | E 2,5.2-8.2\*

**Features:**

- 16 normal yarn carriers
- 8-fold friction feed wheels (left/right)
- 8-fold thread clamping and cutting device (left/right)
- 2 carriages with 2 fully fledged knitting and transfer systems each
- Take-down system:
  - STOLL-multiflex®
  - Auxiliary
  - Comb

**Functionality:**

- For extra-large Fully Fashion fabrics with maximum width of 84"/213cm (coupled carriages)
- Knits 2 pieces simultaneously with maximum width of 42"/107cm (uncoupled carriages)
- Quick coupling and uncoupling of the two carriages
- Production of knitted products with different widths with almost no nonoperational times



**CMS 933 ki**  
**CMS 933 ki multi gauge**

**Working width:** 96"/244 cm  
**Gauge range:** E 5-16 | E 2,5.2-8.2\*

**Features:**

- 16 normal yarn carriers
- 2 carriages with 3 fully fledged knitting and transfer systems each
- Take-down system:
  - Double roller
  - Auxiliary

**Functionality:**

- For extra-large Fully Fashion fabrics with maximum width of 96"/244 cm (coupled carriages)
- Knits 2 pieces simultaneously with maximum width of 48"/117 cm (uncoupled carriages)
- Quick coupling and uncoupling of the two carriages
- Production of knitted products with different widths with almost no nonoperational times

\* System distance / gauge range: 5" / E10 - E18; E6.2 - E10.2  
 System distance / gauge range: 5.2" / E5 - E8; E2,5.2 - E5.2

## MACHINES



**CMS 330 ki W TT sport\***  
**CMS 330 ki BW TT sport\*\***

**Working width:** 36"/90 cm  
**Gauge range:** E 7.2

### Features:

- 12 normal yarn carriers
- 3 fully fledged knitting and transfer systems
- 8-fold friction feed wheels (left/right)
- 8-fold thread clamping and cutting device (left/right)
- Take-down system:
  - \*STOLL-multiflex®/Auxiliary/Comb
  - \*\*Belt (B)
- Weave-in device (W)
- Intarsia yarn carriers (option)



**CMS 303 ki B TT sport**

**Working width:** 30"/76 cm  
**Gauge range:** E 7.2

### Features:

- 8 normal yarn carriers
- 3 fully fledged knitting and transfer systems
- 8-fold friction feed wheels (right)
- Take-down system:
  - Belt (B)



**CMS 202 ki B**

**Working width:** 24"/60 cm  
**Gauge range:** E 6.2 - 7.2 | E 10 - 18

### Features:

- 10 normal yarn carriers
- 2 fully fledged knitting and transfer systems
- 8-fold friction feed wheels (right)
- 12-fold thread clamping and cutting device (right)
- Take-down system:
  - Belt (B)

TAKE A CLOSER LOOK  
AND DISCOVER FAR  
MORE ADVANTAGES

## FEATURES

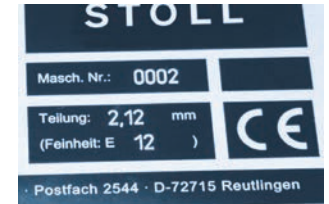
### CMS needle

The pelerine spring-transfer needle with spring-loaded latch is characterized by low needle wear and a high level of safety during opening, closing, and transferring.



### Safety devices

Includes fully enclosed and illuminated working area, CFC-protection system (Carriage Force Control) and front/rear shock stop motion. Machine complies with EC regulations.



### Optimized Intarsia yarn carriers

Many models in the CMS generation can be ordered with the optimized Intarsia yarn carriers (optional). Their compact design now enables even closer yarn carrier staggering. Simply by sliding on the optimized Intarsia yarn carriers, almost any CMS machine immediately becomes a perfect Intarsia machine.



### Friction feed wheels

These ensure a reduced, constant thread tension. An optimum yarn supply device for a maximum number of threads.



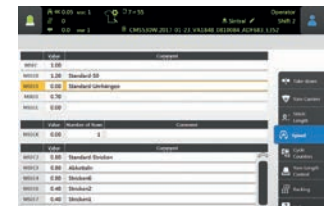
### STOLL-multiflex® fabric take-down system

With adjustable roller segments. All take-down parameters can be set directly during programming in the STOLL pattern software M1plus®.



### Setup 2

To quickly transfer settings of a program to several machines and/or to return adjustments made during the knitting of a garment to the pattern software M1plus®.



### Power-RCR (Rapid Carriage Return) and PEP (Productivity Enhancement Pack)

Exceptionally economical, extremely fast: the variable carriage return with Power RCR system. Its advantages become apparent with narrow fabrics or during binding-off and narrowing.

PEP: reduces the running time of the pattern due to the optimization of knitting processes. PEP saves an average of 4% on time.



### Plating kit

Every CMS machine can be equipped with practical accessories according to the individual needs, for example using the plating kit. It is an accessory consisting of improved plating yarn carriers and a special yarn adapter. Color and quality plating can be realized in better quality using the plating kit.





### Yarn guidance

The active yarn clamp unit, lateral yarn tensioner, and thread brake ensure an optimum interaction of yarn and needle – even at maximum loads.



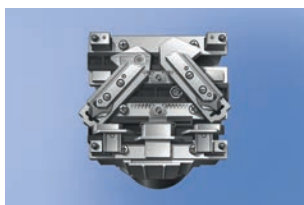
### Belt take-down system

Particularly for products with deep gores or with large width variation and special elastic properties.



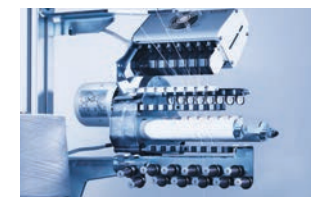
### Stitch length control with flexible stitch and PTS

Several stitch lengths in one knitting row, quickly adjustable with PTS (Power Tension Setting).



### ASCON®

Optional yarn length measuring unit for measurement of stitch length – controls external influence on yarn consumption.



### 4L and 3L needle

The shape and size of the needle hook have been optimized to be able to take up significantly more yarn, making it possible to carry out improved running reliability of multi-threaded knitting and to produce hand-knitted looks.



### Clamping and cutting device

Thread holding via eight clamping and cutting units on each side for a maximum of 16 yarn carriers (depending on the CMS model). Many CMS models can optionally be ordered with 2 × 16 clamping and cutting units for a maximum of 32 yarn carriers.



### Yarn control units

With an improved design and excellent handling, the yarn control units provide for easy thread insertion and scalable adjustments of the desired parameters. They have separate knot detectors for small and large knots.



### Multi Touch Panel

The 1366x768-pixel wide view color display with multi-touch screen is practical and clear. The individual user interface and intuitive menu guide enable pattern changes to be entered easily and directly on the machine.



5,2" DISTANCE

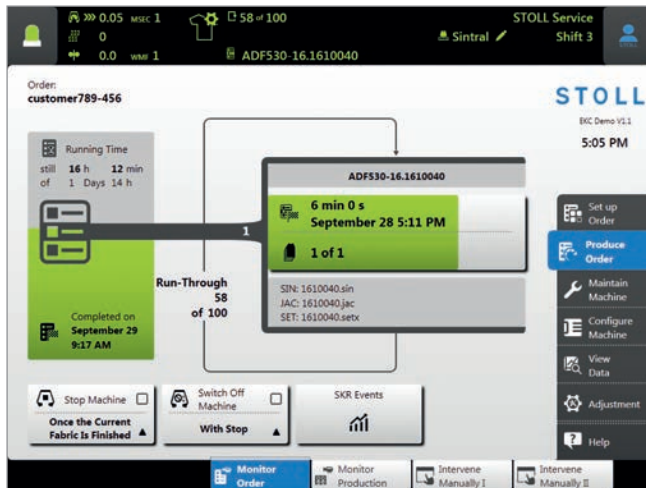
# REDUCED SYSTEM DISTANCE FOR REDUCED KNITTING TIME

**Surprisingly fast:** the CMS machines with a system distance reduced from 6 inches to a 5.2 inches result in a significantly shorter knitting time for identical patterns. Thus, the CMS models with gauges E 5 - E 8 or E 2.5,2 - E 5.2 are now even more productive. Profit from the enhanced productivity and secure your competitiveness, as well as sustainable growth!



With the EKC (Extended Knit Control), your CMS machines become even more productive: it offers different skills to optimize and enhance the whole production process. It is user-friendly, quick to learn and makes your daily business easier. EKC is an important part of knitelligence® – designed to build up 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, everyone can handle every situation that occurs during production. By using these new features, the whole production process will be optimized and enhanced. Your productivity will increase and costs decrease.



### Your advantages at a glance:

- 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 of the STOLL PPS

EXTENDED KNIT  
CONTROL:  
GET IN TOUCH WITH  
WHAT YOU NEED

Knitting unit	CMS 502 ki (multi gauge) CMS 502 ki Bc (multi gauge)	CMS 520 ki C multi gauge	CMS 530 ki (multi gauge) CMS 530 ki Bc (multi gauge)	CMS 530 ki W (multi gauge)	CMS 530 ki BcW (multi gauge)
Carriages   Combined knitting-transfer systems with split function <sup>1</sup>	1 × 2	1 × 2	1 × 3	1 × 3	1 × 3
Electronic wear-free selection systems with 2 selection points	6	6	8	8	8
Dynamic tension setting with step motors; extremely quick adjustments of stitch tension with PTS (Power Tension Setting)	●	●	●	●	●
<b>Drive   Racking</b>					
Main drive: programmable speed; variable stroke; Power-RCR system (Rapid Carriage Return); flexible speed adjustment using starting bar; CFC-protective system (Carriage Force Control)	●	●	●	●	●
Max. knitting speed (m/s) <sup>2</sup>	1.2	1.0	1.2	1.2	1.2
Max. speed by empty rows (m/s)	1.5	1.2	1.5	1.5	1.5
Racking course max. 4", programmable racking speed	●	●	●	●	●
<b>Needle bed</b>					
Nominal width   max. working width, in inches (cm)	45 (114)	50 (127)	50 (127)	50 (127)	50 (127)
Gauges	E 7 - 18 <sup>3</sup>   E 2,5,2 - 7,2 <sup>4</sup>	E 1,5,2   E 2,2	E 5 - 18 <sup>5</sup>   E 2,5,2 - 10,2 <sup>6</sup>	E 10 - 18 <sup>7</sup>   E 6,2 - 10,2 <sup>8</sup>	E 10 - 18 <sup>7</sup>   E 6,2 - 10,2 <sup>8</sup>
Gauge conversion <sup>9</sup>	○	○	○	○	○
Knockover bits	●	-	●	●	●
Moveable holding-down jacks on both needle beds	●	-	●	●	●
Spring-loaded holding-down jacks	-	●	-	-	-
Pelerine spring-transfer needle with spring-loaded latch	●	●	●	●	●
Needle detector	●	●	●	●	●
Needle exchange <sup>10</sup>	○	-	○	○	○
8-fold thread clamping and cutting device, left   right	-   12 fold	●   ●	●   ●	●   ●	●   ●
Illuminated working space	●	●	●	●	●
Shock stop motion, front   rear	●   ●	●   ●	●   ●	●   ●	●   ●
Central lubrication of needle bed elements and carriage slide bars	-	-	○	○	○
<b>Dimensions   Weights</b>					
Length: unpacked   in the case   on pallet, approx. in mm	2370   2650   2650	2700   2970   2970	2700   2970   2970	2700   2970   2970	2700   2970   2970
Width: unpacked   in the case   on pallet, approx. in mm	909   1150   1100	909   1140   1100	909   1140   1100	909   1140   1100	909   1140   1100
Height: unpacked   in the case   on pallet, approx. in mm	2050   1940   1810	2050   1900   1810	2050   1900   1810	2050   1900   1810	2050   1900   1810
Weight: net   gross with case   gross with pallet, approx. in kg	1028   1333   1108	1250   1578   1343	1240   1568   1333	1240   1568   1333	1290   1618   1383
<b>Control system   Data processing</b>					
Slide Multi-Touch Panel with color display	● <sup>11</sup>	●	●	●	●
2 USB ports; online via Ethernet	●	●	●	●	●
Battery backup: correct continuation of the knitting process after power failure	●	●	●	●	●
<b>Safety devices</b>					
Fully enclosed working area	●	●	●	●	●
Machine complies with EC regulations (CE label)	●	●	●	●	●
Machine status lamp with alarm buzzer	●	●	●	●	●

Yarn guide	CMS 502 ki (multi gauge)	CMS 502 ki Bc (multi gauge)	CMS 520 ki C multi gauge	CMS 530 ki (multi gauge)	CMS 530 ki Bc (multi gauge)	CMS 530 ki W (multi gauge)	CMS 530 ki BcW (multi gauge)
Yarn control units		14	24		20 - 24 <sup>12</sup>		14 - 20 <sup>12</sup>
Active thread clamps, left   right		-   8	8   8		8   8		8   8
Lateral yarn tensioners with scale, left   right		8   8	12   12		12   12		12   12
Lateral thread brake, left   right		-   8	8   8		8   8		8   8
Thread deflectors for optimum yarn guidance, left   right		●   ●	●   ●		●   ●		●   ●
Yarn carrier rail   yarn carrier		4   10	4   12		4   12		4   12
Intarsia yarn carrier		-	○		○		○
Plating yarn carrier		● <sup>13</sup>	○		○		○
Plating kit consisting of plating yarn carrier and bobbin holder		○	○		○		○
Devoré kit with 1 system <sup>14</sup>		○	-		○		○
Devoré kit with 2 systems <sup>15</sup>		-	-		○		○
Plush device		-	-		○		○
Holders for bobbins		-	● (2 × 4)		●   ○ (2 × 4) <sup>16</sup>		○ (2 × 4)
<b>Yarn feed unit</b>							
Friction feed wheel, 8 tracks each, left   right		○   ●	●   ●		●   ●		●   ●
Storage feed wheel <sup>17</sup>		○	-		○		○
ASCONE®, automatic stitch control, 8 measurement units, left   right <sup>18</sup>		○   ○	○   ○		○   ○ <sup>19</sup>		○   ○ <sup>19</sup>
<b>Fabric take-down system</b>							
Main take-down		Stoll-multiflex*	Belt take-down	Stoll-multiflex*	Stoll-multiflex*	Belt take-down	Stoll-multiflex* Belt take-down
Comb take-down		●	●	●	●	●	● ●
Auxiliary take down		●	-	●	●	-	● -
<b>Cleaning device</b>							
Suction device with turbine; with suction tube		-	●		●		●
<b>Power</b>							
Voltage connection		AC 230V +/-10%	AC 230V/400V +/-10%		AC 230V/400V +/-10%		AC 230V   400V +/-10%
Connection value, depending on operating status (KW) <sup>20</sup>		1.7	2.0		2.3		2.3

- Standard equipment
- Optional equipment

<sup>1</sup> All systems are fully independent. Knitting with the three-way technique, or simultaneous transfer to the front and rear.

<sup>2</sup> Depends on yarn and pattern structure.

<sup>3</sup> Gauges E 7 | 12/10 | 14/12 | 16 | 18 | 18/16

<sup>4</sup> Gauges E 2,5.2 | 2,5.2m4L | 3,5.2 | 3,5.2 m4L | 6.2 | 7.2

<sup>5</sup> Gauges E 5 | 7 | 8 | 10 | 12 | 12/10 | 14 | 14/12 | 16 | 18 | 18/16

<sup>6</sup> Gauges E 2,5.2 | 2,5.2m4L | 3,5.2 | 3,5.2m4L | 5.2 | 6.2 | 7.2 | 8.2

<sup>7</sup> Gauges E 10 | 12 | 12/10 | 14 | 14/12 | 16 | 18

<sup>8</sup> Gauges E 6.2 | 7.2 | 8.2

<sup>9</sup> Possible within the same gauge range.

<sup>10</sup> With needle gauge:

Machine gauge E 5 ○ 2,5.2 | ● 5

Machine gauge E 7 ○ 3,5.2 | ○ 5 | ● 7 | ○ 8

Machine gauge E 8 ○ 7 | ● 8

Machine gauge E 10 ● 10 | ○ 12

Machine gauge E 12 ○ 6.2 | ○ 10 | ● 12

Machine gauge E 14 ○ 7.2 | ○ 12 | ● 14

Machine gauge E 16 ○ 8.2 | ● 16 | ○ 18

Machine gauge E 18 ○ 8.2 | ○ 16 | ● 18

<sup>11</sup> Not moveable display.

<sup>12</sup> Depends on the gauge.

<sup>13</sup> 2 extra plating yarn carriers for track 4 and 5 as standard.

<sup>14</sup> Only for fine gauges.

<sup>15</sup> Gauge availability on request.

<sup>16</sup> For gauges E 5 - 8; E 2,5.2 - 5.2 | E 10 - 18; E 6.2 - 8.2

<sup>17</sup> Requires transformer, not in combination with ASCONE®.

<sup>18</sup> System for measuring and regulating the stitch length.

<sup>19</sup> - | ● E 16; E 18; E 8.2

<sup>20</sup> The electric power consumption during knitting always depends on the gauge and working conditions and will be considerably lower than the connection value indicated.

We reserve the right to make technical changes as our products are continuously undergoing further development. All data valid at time of printing 09/19-E.

Knitting unit	CMS 730 ki T	CMS 822 ki (multi gauge)	CMS 933 ki (multi gauge)	CMS 330 ki W TT sport CMS 330 ki BW TT sport	CMS 303 ki B TT sport	CMS 202 ki B
Carriages   Combined knitting-transfer systems with split function <sup>1</sup>	1 x 3	2 x 2	2 x 3	1 x 3	1 x 3	1 x 2
Electronic wear-free selection systems with 2 selection points	8	12	16	8	8	6
Dynamic tension setting with step motors; extremely quick adjustments of stitch tension with PTS (Power Tension Setting)	●	●	●	●	●	●
<b>Drive   Racking</b>						
Main drive: programmable speed; variable stroke; Power-RCR system (Rapid Carriage Return); flexible speed adjustment using starting bar; CFC-protective system (Carriage Force Control)	●	●	●	●	●	●
Max. knitting speed (m/s) <sup>2</sup>	1.2	1.2	1.2	1.2	1.2	1.2
Max. speed by empty rows (m/s)	1.5	1.5	1.5	1.5	1.5	1.5
Racking course max. 4", programmable racking speed	● <sup>21</sup>	●	●	●	●	●
<b>Needle bed</b>						
Nominal width   max. working width, in inches (cm) in tandem version max. inches (cm)	72 (183)	84 (213) 2 x 42 (107)	96 (244) 2 x 48 (117)	36 (90) -	30 (76) -	24 (60) -
Gauges	E12   E14	E 5 - 18 <sup>3</sup>   E 2,5,2 - 8,2 <sup>4</sup>	E 5 - 16 <sup>5</sup>   E 2,5,2 - 8,2 <sup>6</sup>	E7,2	E7,2	E6,2   E7,2
Gauge conversion	●	○ <sup>7</sup>	○ <sup>7</sup>	-	-	○ <sup>7</sup>
Knockover bits	●	●	●	●	●	●
Moveable holding-down jacks on both needle beds	Depth adjustable	●	●	●	●	●
Pelerine spring-transfer needle with spring-loaded latch	●	●	●	●	●	●
Needle detector	●	●	●	●	●	●
Needle exchange <sup>8</sup>	○	○	○	○	○	○
Thread clamping and cutting device, 8 units per side	8   8 <sup>81</sup>	●   ●	-	-	●   ●	-   12
Illuminated working space	●	●	●	●	●	●
Shock stop motion, front   rear	●   ●	●   ●	●   ●	●   ●	●   ●	●   ●
Central lubrication of needle bed elements and carriage slide bars	○	○	●	○	○	○
<b>Dimensions   Weights</b>						
Length: unpacked   in the case   on pallet, approx. in mm	3550   3840   3840	4025   4490   4490	5100   5460   5460	2370   2650   2650	2370   2650   2650	1838   2000   2000
Width: unpacked   in the case   on pallet, approx. in mm	909   1150   1100	909   1150   1100	1062   1470   1420	909   1150   1100	909   1150   1100	909   1140   1100
Height: unpacked   in the case   on pallet, approx. in mm	2050   1940   1810	2050   1940   1810	2050   2090   1980	2050   1940   1810	2050   1940   1810	2050   1900   1800
Weight: net   gross with case   gross with pallet, approx. in kg	1510   1994   1709	1670   2430   1930	2060   3060   2410	1028   1333   1108	1028   1333   1108	736   994   831
<b>Control system   Data processing</b>						
Slide Multi-Touch Panel with color display	●	●	●	●	● <sup>9</sup>	● <sup>9</sup>
2 USB ports; online via Ethernet	●	●	●	●	●	●
Battery backup: correct continuation of the knitting process after power failure	●	●	●	●	●	●
<b>Safety devices</b>						
Fully enclosed working area	●	●	●	●	●	●
Machine complies with EC regulations (CE label)	●	●	●	●	●	●
Machine status lamp with alarm buzzer	●	●	●	●	●	●

Yarn guide	CMS 730 ki T	CMS 822 ki (multi gauge)	CMS 933 ki (multi gauge)	CMS 330 ki W TT sport	CMS 330 ki BW TT sport	CMS 303 ki B TT sport	CMS 202 ki B
Yarn control units	20-24 <sup>11</sup>	20 - 32 <sup>10</sup>	26 - 36 <sup>10</sup>		22	22	14 - 20 <sup>10</sup>
Active thread clamps, left   right	●   ●	8   8	8   8	8   8	8   8	-   8	-   8
Lateral yarn tensioners with scale, left   right	12   12	12   12	16   16	12   12	12   12	8   8	12   12
Lateral thread brake, left   right	8   8	8   8	16   16 <sup>11</sup>	8   8	8   8	-   8	-   8
Thread deflectors for optimum yarn guidance, left   right	●	●   ●	●   ●	●   ●	●   ●	●   ●	●   ●
Yarn carrier rail   yarn carrier	4   16	4   12	4   12	4   12	4   12	4   8	4   10
Intarsia yarn carrier	○	○	○	○	○	-	-
Plating kit consisting of plating yarn carrier and bobbin holder	○	○	○	○	○	○	○
Devoré kit with 1 system <sup>12</sup>	-	○	○	○	○	○	○
Devoré kit with 2 systems <sup>13</sup>	-	-	○	○	○	○	-
Plush device	-	-	○	○	○	○	-
Holders for bobbins	○ (2 × 5)	●   ○ (2 × 5) <sup>14</sup>	●   ○ (2 × 7) <sup>14</sup>	● (2 × 4)	● (2 × 4)	○ (2 × 4)	-
<b>Yarn feed unit</b>							
Friction feed wheel, 8 tracks each, left   right	●   ●	●   ●	○   ○ <sup>15</sup>	●   ●	●   ●	●   ●	●   ●
Storage feed wheel <sup>16</sup>	○	○	○	○	○	○	○
ASCONE®, automatic stitch control, 8 measurement units, left   right <sup>17</sup>	○	○   ○ <sup>18</sup>	○   ○	○   ○	○   ○	○   ○	○   ○
<b>Fabric take-down system</b>							
Main take-down	Stoll-multiflex*	Stoll-multiflex*	double roller	Stoll-multiflex*	Belt take-down	Belt take-down	Belt take-down
Comb take-down	●	●	-	●	-	-	-
Auxiliary take down	●	●	●	●	-	-	-
<b>Cleaning device</b>							
Suction device with turbine; with suction tube	●	●	●	-	-	-	-
<b>Power</b>							
Voltage connection	(AC 400 V +/-10%)	AC 400V +/-10%	AC 400V +/-10%	AC 230V +/-10%	AC 230V +/-10%	AC 230V +/-10%	AC 230V +/-10%
Connection value, depending on operating status (KW) <sup>19</sup>	2.3	2.6	3.0	2.3	2.3	2.3	1.7

● Standard equipment

○ Optional equipment

<sup>1</sup> All systems are fully independent. Knitting with the three-way technique, or simultaneous transfer to the front and rear.

<sup>2</sup> Depends on yarn and pattern structure.

<sup>2.1</sup> Additional beds: 2"

<sup>3</sup> Gauges E 5 | 7 | 8 | 10 | 10 | 12 | 12/10 | 14 | 14/12 | 16 | 18

<sup>4</sup> Gauges E 2,5.2 | 3,5.2 | 2,5.2m4L | 5.2 | 6.2 | 7.2 | 8.2

<sup>5</sup> Gauges E 5 | 7 | 8 | 10 | 12 | 14 | 16

<sup>6</sup> Gauges E 2,5.2 | 2,5.2m4L | 6.2 | 7.2 | 8.2

<sup>7</sup> Gauge conversion possible - within the same gauge range.

<sup>8</sup>

With needle gauge:

Machine gauge E 5 ○ 2,5.2 | ● 5

Machine gauge E 7 ○ 3,5.2 | ○ 5 | ● 7 | ○ 8

Machine gauge E 8 ○ 7 | ● 8

Machine gauge E 10 ● 10 | ○ 12

Machine gauge E 12 ○ 6.2 | ○ 10 | ● 12

Machine gauge E 14 ○ 7.2 | ○ 12 | ● 14

Machine gauge E 16 ○ 8.2 | ● 16 | ○ 18

Machine gauge E 18 ○ 8.2 | ○ 16 | ● 18

<sup>8.1</sup> Independent of the carriage.

<sup>9</sup> Not moveable display.

<sup>10</sup> Depends on the gauge.

<sup>11</sup> Within following permanent thread brake.

<sup>12</sup> Only for fine gauges.

<sup>13</sup> Gauge availability on request.

<sup>14</sup> For gauges E 5; E 2,5.2 - 5.2 | E 7 - 18; E 6.2 - 8.2

<sup>15</sup> Optional: friction feed wheel, 16 tracks each left/right. Requires transformer, not in combination with ASCONE®.

<sup>17</sup> System for measuring and regulating the stitch length.

<sup>18</sup> ● | ● E 16; E 18; E 8.2

<sup>19</sup> The electric power consumption during knitting always depends on the gauge and working conditions and will be considerably lower than the connection value indicated.

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