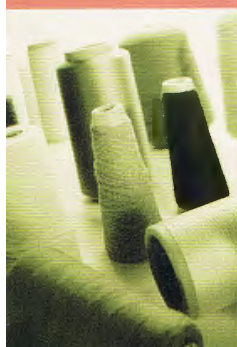


CMS 302 TC
CMS 303 TC
CMS 304 TC
CMS 305 TC



THE PRODUCT RANGE

**BASIC CLASS | COMPACT CLASS | TOP CLASS
SPECIAL CLASS | PATTERN WORKSTATION**

CMS 320 TC	CMS 320 TC multi gauge
CMS 330 TC	CMS 330 TC multi gauge
CMS 340 TC	CMS 330 TC knit and wear
CMS 320 TC-C	CMS 340 TC knit and wear
CMS 330 TC-R	CMS 340 TC-M knit and wear
CMS 330 TC-L	CMS 330 TC-C knit and wear
CMS 340 TC-L	CMS 330 TC-T knit and wear
CMS 340 TC-M	Pattern Workstation M1
CMS 411 TC	and M1 knit and wear
CMS 422 TC	
CMS 433 TC	

04–05	INSPIRATION
06–07	PATTERN WORKSTATION
08–09	BASIC CLASS AND COMPACT CLASS
10–11	TOP CLASS AND SPECIAL CLASS
12–13	CMS-TECHNOLOGY – AN OVERVIEW
14–15	TECHNICAL HIGHLIGHTS
16–17	STOLL-ACCESSORIES OVERVIEW OF USABLE NEEDLES
18–19	STOLL-PATTERN INNOVATIONS® YARN TABLE YARN DESIGNATIONS YARN CONVERSION TABLE





Turn dream knitwear and pattern ideas into reality: With Stoll

Stoll-flat knitting machines and pattern preparation systems are designed to address every conceivable knitting requirement: From yarded fabric through accessories and Fully Fashion to ready-to-wear articles. Quickly, simply, without problems – by benefiting from short equipping and set-up times, a maintenance-friendly design, various working widths, a wide gauge range and an operating system which is unique anywhere in the world and can even be individually adjusted to meet individual demands.

All Stoll-CMS-machines are also compatible and therefore offer completely flexible application. Thanks to the identical stitch formation on the various machines, it is also possible for individual parts to be produced on different machines.

Basic Class: For small batch sizes and fashioned accessories of all types. Fast and profitable. Also ideal for patterning or as an addition to our Top Class machines.

Compact Class: Maximum flexibility when producing Fully Fashion articles and frequently changing batch sizes. Also for coarse knits.

Top Class: For maximum productivity and great patterning variety. Machines with a convincing performance, or used in tandem operation for Fully Fashion production.

Special Class: Less making-up work, shorter throughput times and even greater pattern variety: Stoll-multi gauges®, Stoll-flexible gauge®, Stoll-applications®, Stoll-knit and wear®.

Pattern workstation M1: The pattern workstation M1 and M1 knit and wear from Stoll makes programming faster, simpler and more easily manageable. The fabric view and the technical view offer the ideal portrayal for both technicians and designers.

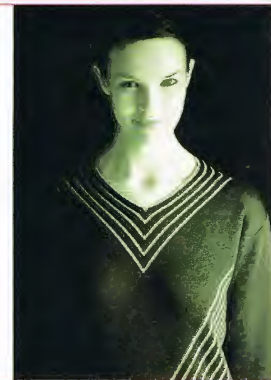


Stoll is present in more than 70 countries –
find all the relevant addresses under www.stoll.com

From the inspiration to the knitted product through the medium of a Stoll-machine



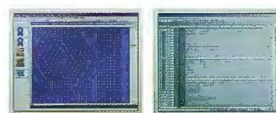
When the golden cornfields are harvested in autumn, stripes are created from the effects of light and shade. This striping effect has been the inspiration behind a pullover with groups of diagonal stitches which can be particularly efficiently knitted on the Stoll CMS 330 TC-R with split additional beds. Ideal not only for narrowing processes with unrestricted width, but also for diagonal groups of stitches and cables in double-faced fabrics.



The inspiration for this cardigan with its scarf collar was provided by the Australian frilled lizard with its striking, collar-like folds of skin. This was knitted on the CMT 211, which at the same time is far more than simply an accessory machine. It also knits semi-shaped knitwear and fabrics with simple patterning at extremely high speed, and also offers semi-jacquard capabilities, selective yarn feeder control and moveable holding-down sinkers.

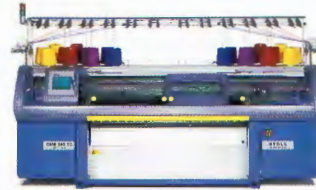


The direct gaze of the leopard stimulates us to think about the different ways of seeing things. The knitting technician and the knitwear designer clearly view the world with different eyes. This was a motivation in our development of the pattern workstation M1 and M1 knit and wear, which offer the appropriate view for different users. With a wide range of modules and various basic patterns.





The butterfly provided a shining example when it came to perfecting the production of ready-to-wear articles: With the same perfect ease as the insect completes its meta-morphosis from cocoon to beautiful butterfly, ready-to-wear articles are now produced from our knitting machines – only a lot quicker. The machines for ready-to-wear articles of all types produce knitwear practically ready for the shelf with an ideal fit and no seams.



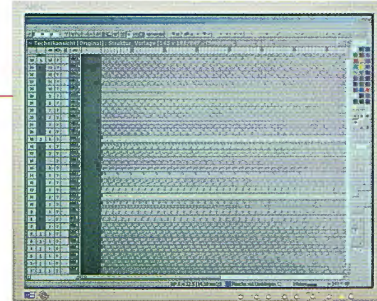
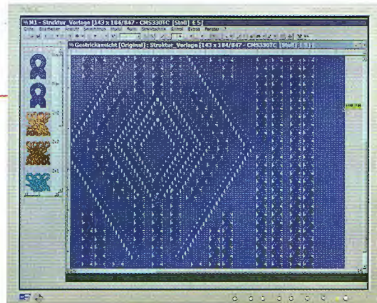
The combination of different thicknesses has proven problematical over the years – and not only when cooking pasta. But when it comes to knitting, our multi gauge machines make coping with different gauges simplicity itself. Because Stoll-multi gauges® permits the production of several different gauges within a single fabric – either within a course or one underneath the other. And with Stoll-flexible gauge®, fabrics in different gauges can be knitted on one and the same machine.



The way an intarsia pattern wanders through a sophisticated knitted fabric is reminiscent of a river meandering on its course through the countryside. Intarsia knitting is simplicity itself with any Stoll-CMS-machine: Simply slip on the intarsia yarn feeders and hey presto! For anyone seeking more inspiration on the production of intarsia patterns, our current pattern collections offer plenty of food for thought.



Knitting technicians see the world from a different angle than knitwear designers. The pattern workstation M1 and M1 knit and wear takes it in its stride



It is an age-old scenario: On the one hand there is less and less time available for pattern generation. On the other hand, the number of patterns needed is growing all the time – for example for intermediate collections. Coordination between knitting technicians and designers often leads to a situation where patterns have to be modified. Consequently, all too many test knitting processes are required. That is all set to change: The pattern workstation M1 and M1 knit and wear from Stoll makes programming faster, simpler and more easily manageable.

This allows patterns to be drafted simply using graphic support tools, while the Pattern workstation itself assumes responsibility for knitting know-how. Finished basic patterns and already a large library of permanently available knitting modules simplify your work. And what's more: Patterns can be generated in two different views – either the fabric view or the technical view. So you have the opportunity to see beforehand how your fabric will look once it is knitted. Which will save you time and energy spent on knitting trials. In addition, all patterns can be traced at any time, allowing them to be utilized and processed jointly by different knitting technicians.

Fabric view and technical view: Simultaneous Pattern

Design. The right viewing mode for technicians and designers alike. Fabric view – a true-to-life picture which corresponds to the appearance of the finished fabric, even with structures and Stoll-multi gauges®. Technical view – a representation of the knitting sequence using customary symbols such as needle selection, racking, stitch length etc.

Both perspectives permit the pattern to be further developed and modified. And whatever is completed in one view is executed automatically on a parallel basis in the other view. The realistic fabric view, together with a preliminary check of the knitting sequence, can partially eliminate the need for test knitting.

One program for everything: Integrated Pattern Design.

Whether intarsia, structures, jacquard, Fully Fashion, Stoll-multi gauges® or Stoll-knit and wear® (only M1 knit and wear) – all knitting modes are generated in a single program.

Module database: Module Based Pattern Design. Simplifies the programming processes by providing a wide selection of existing modules. These modules can be modified, the designer's own modules are simply added to the database. Several modules can be joined to create a so-called pattern section. A module explorer simplifies the selection of modules.

Finished basic patterns: Ready-to-use Pattern Collection.

A collection of ready-to-use basic patterns showing a wide variety of different knitting techniques offer a basis for the development of new patterns.

The Shape Editor: Function Integrated Shaping. The Shape Editor operates either in millimetres, inches or stitches. The required shape is simply placed over the fabric view. Narrowing, bind-off as well as fading out of structure elements (e.g. cables) and changes in the stitch structure in the selvedge area are performed automatically. Even size changes are easy to implement.

Automatic implementation in a knitting program:

Automatic Program Transfer. The completed design is automatically implemented in the form of a knitting program with all missing knitting parameters intelligently added. Standardized route for the creation of a finished program. The utilization and processing of patterns by different technicians no longer represents a problem.

Manual intervention: Individual Program Adjustments.

All knitting sequences can be influenced and individually modified independently of the automatic program transfer function.

For small batch sizes and shaped accessories: The Basic Class



The Basic Class: Flexible and economical. No matter what the quantity. Whether incorporating the features of the CMS-generation such as individual needle selection and split stitch function. Or as machines of the CMT series with semi-jacquard capabilities. With one carriage or working in tandem, and with two or three systems.



CMS 302 TC

Nominal width/max. working width.....50"/127 cm
Gauges E 5 | 7 | 8 | 10 | 12 | 14
Operating weight approx.....1320 kg
Dimensions approx.....2990 x 901 x 2265 mm



CMS 311 TC-L

Nominal width/max. working width.....72"/183 cm
As a tandem max.....2 x 34"/86 cm
Gauges E 5 | 7 | 8 | 10 | 12 | 14 | 16 | 18
Operating weight approx.....1530 kg
Dimensions approx.....3550 x 901 x 2265 mm



CMS 303 TC

Nominal width/max. working width.....50"/127 cm
Gauges..... E 5 | 7 | 8 | 10 | 12 | 14 | 16 | 18
Operating weight approx.....1340 kg
Dimensions approx.....2990 x 901 x 2265 mm



CMT 211

Nominal width/max. working width.....84"/213 cm
As a tandem max.....2 x 38"/96 cm
Gauges..... E 10 | 12 | 14 | 16 | 18
Operating weight approx.....1120 kg
Dimensions approx.....3240 x 852 x 1960 mm

High output, great equipment features: The Compact Class



The Compact Class: Unmatched efficiency for Fully Fashion production, also for coarse knits or unusual sizes. With one carriage and two, three or four systems, and one model even offering additional beds. Special highlights: Thread clamping and cutting device as well as Stoll-multiflex® take-down system with take-down comb.



CMS 320 TC

Nominal width/max. working width.....50"/127 cm
Gauges.....E 5 | 7 | 8 | 10 | 12 | 14 | 16 | 18
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
Convertible to.....CMS 320 TC multi gauge
Operating weight approx.....1390 kg
Dimensions approx.....2990 x 901 x 2265 mm



CMS 330 TC-R

Nominal width/max. working width.....50"/127 cm
Gauges.....E 7 | 8 | 10 | 12 | 14
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
2 split additional beds.....Standard equipment
Operating weight approx.....1460 kg
Dimensions approx.....2990 x 901 x 2265 mm



CMS 330 TC

Nominal width/max. working width.....50"/127 cm
Gauges.....E 5 | 7 | 8 | 10 | 12 | 14 | 16 | 18
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
Convertible to.....CMS 330 TC multi gauge
Operating weight approx.....1410 kg
Dimensions approx.....2990 x 901 x 2265 mm



CMS 330 TC-L

Nominal width/max. working width.....72"/183 cm
Gauges.....E 5 | 7 | 8 | 10 | 12 | 14 | 16 | 18
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
Convertible to.....CMS 330 TC knit and wear
Operating weight approx.....1610 kg
Dimensions approx.....3550 x 901 x 2265 mm



CMS 340 TC

Nominal width/max. working width.....50"/127 cm
Gauges.....E 5 | 7 | 8 | 10 | 12 | 14 | 16 | 18
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
Operating weight approx.....1430 kg
Dimensions approx.....2990 x 901 x 2265 mm



CMS 340 TC-L

Nominal width/max. working width.....72"/183 cm
Gauges.....E 5 | 7 | 8 | 10 | 12 | 14 | 16 | 18
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
Convertible to.....CMS 340 TC knit and wear
Operating weight approx.....1630 kg
Dimensions approx.....3550 x 901 x 2265 mm



CMS 320 TC-C

Nominal width/max. working width.....50"/127 cm
Gauges.....E 3 | 3.5 | 4
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
Operating weight approx.....1410 kg
Dimensions approx.....2990 x 901 x 2265 mm



CMS 340 TC-M

Nominal width/max. working width.....84"/213 cm
Gauges.....E 5 | 7 | 8 | 10 | 12 | 14
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
Convertible to.....CMS 340 TC-M knit and wear
Operating weight approx.....1730 kg
Dimensions approx.....4025 x 901 x 2265 mm

For bulk knitting production: The Top Class

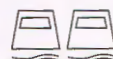


The Top Class: Offers even greater knitting productivity. Remarkable patterning variety over a large working width. Complies with the whole range of market requirements with all of the advantages of tandem machines, with two, four and six systems.



CMS 411 TC

Nominal width/max. working width.....96"/244 cm
As a tandem max.....2 x 46"/117 cm
Gauges.....E 5 | 7 | 8 | 10 | 12 | 14
Operating weight approx.....1970 kg
Dimensions approx.....4244 x 1105 x 2265 mm



CMS 433 TC

Nominal width/max. working width.....96"/244 cm
As a tandem max.....2 x 46"/117 cm
Gauges.....E 5 | 7 | 8 | 10 | 12 | 14
Operating weight approx.....2190 kg
Dimensions approx.....5100 x 1105 x 2265 mm



CMS 422 TC

Nominal width/max. working width.....96"/244 cm
As a tandem max.....2 x 46"/117 cm
Gauges.....E 5 | 7 | 8 | 10 | 12 | 14
Operating weight approx.....2100 kg
Dimensions approx.....4560 x 1105 x 2265 mm

For ready-to-wear articles and special requirements: The Special Class



The Special Class: Machines for those out-of-the-ordinary requirements. These machines will knit everything which falls under the scope of Stoll-Pattern Innovations®: Stoll-multi gauges® – several different gauges in a single fabric; Stoll-flexible gauge® – fabrics in different gauges without needle exchange or gauge conversion; Stoll-applications® – integrated making-up processes as you knit as well as new patterning effects; Stoll-knit and wear® – knitwear without making-up processes.


CMS 320 TC
multi gauge

Nominal width/max. working width.....50"/127 cm
Gauges.....E 3,5.2 | 5.2 | 6.2 | 7.2
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
Convertible to.....CMS 320 TC
Operating weight approx.....1390 kg
Dimensions approx.....2990 x 901 x 2265 mm


CMS 340 TC
knit and wear

Nominal width/max. working width.....72"/183 cm
Gauges.....E 2,5.2 | 3,5.2 | 5.2 | 6.2 | 7.2 | 9.2
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
Convertible to.....CMS 340 TC-L
Operating weight approx.....1630 kg
Dimensions approx.....3550 x 901 x 2265 mm


CMS 330 TC
multi gauge

Nominal width/max. working width.....50"/127 cm
Gauges.....E 2,5.2 | 3,5.2 | 5.2 | 6.2 | 7.2
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
Convertible to.....CMS 330 TC
Operating weight approx.....1410 kg
Dimensions approx.....2990 x 901 x 2265 mm


CMS 340 TC-M
knit and wear

Nominal width/max. working width.....84"/213 cm
Gauges.....E 2,5.2 | 3,5.2 | 5.2 | 6.2 | 7.2
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
Convertible to.....CMS 340 TC-M
Operating weight approx.....1730 kg
Dimensions approx.....4025 x 901 x 2265 mm


CMS 330 TC
knit and wear

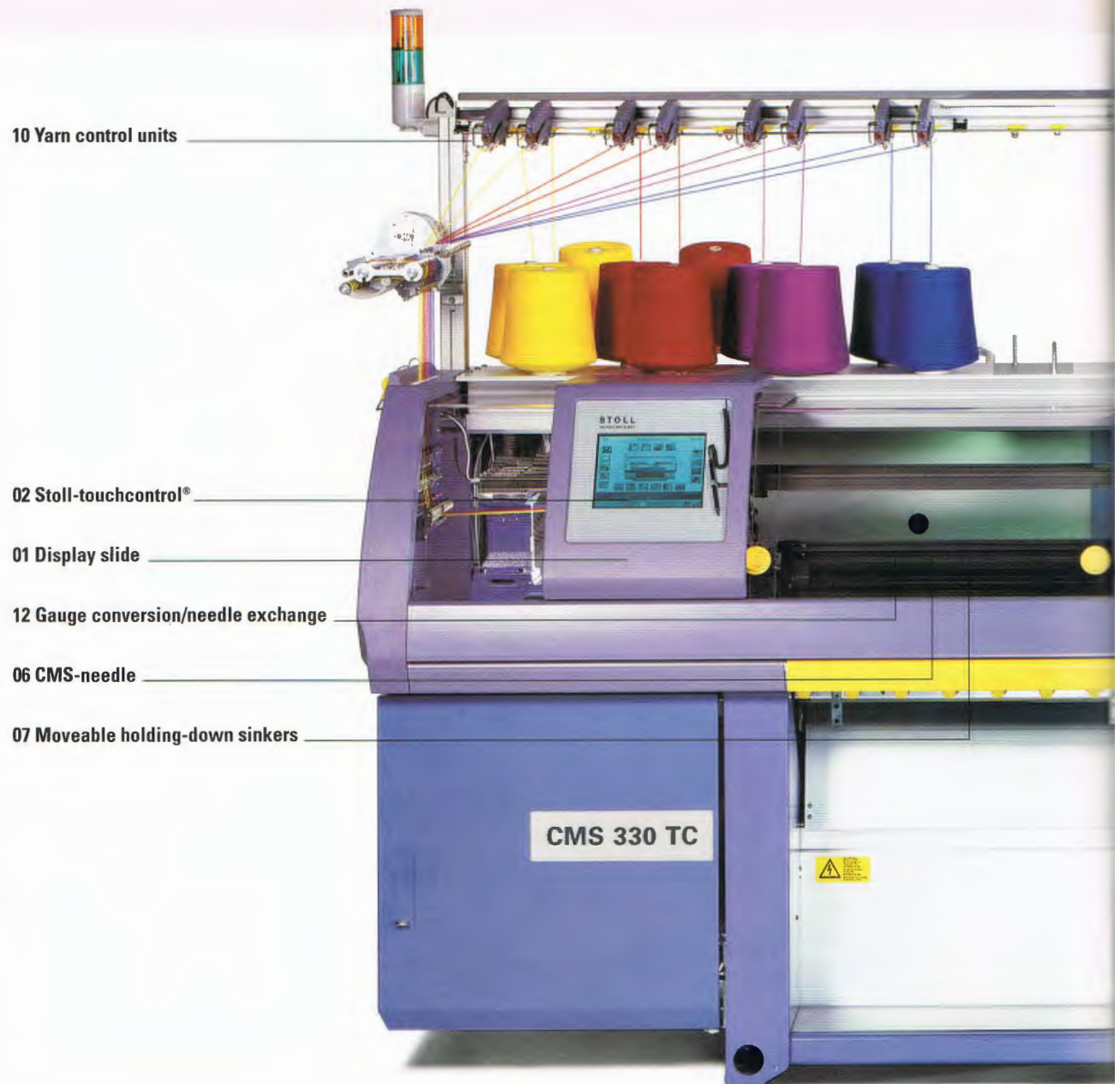
Nominal width/max. working width.....72"/183 cm
Gauges.....E 2,5.2 | 3,5.2 | 5.2 | 6.2 | 7.2
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
Convertible to.....CMS 330 TC-L
Operating weight approx.....1610 kg
Dimensions approx.....3550 x 901 x 2265 mm


CMS 330 TC-C
knit and wear

Nominal width/max. working width.....84"/213 cm
Gauge.....E 2,5.2
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
Operating weight approx.....1730 kg
Dimensions approx.....4025 x 901 x 2265 mm


CMS 330 TC-T
knit and wear

Nominal width/max. working width.....72"/183 cm
Gauges.....E 6.2 | 7.2
Take-down comb.....Standard equipment
Thread clamping and cutting device...Standard equipment
2 additional beds.....Standard equipment
Operating weight approx.....1660 kg
Dimensions approx.....3550 x 901 x 2265 mm





11 Yarn feeders

08 Suction device

03 Knitting systems

05 Electronic selection system

04 Knitting system control with PTS

09 Monitoring and stop functions

STOLL
THE RIGHT WAY TO KNIT

Why our machines fit like a glove into your production environment

01 Display slide: Always on the pulse of the action. Machine commands can be entered at CMS-machines without taking your eyes off the fabric. Optionally also with additional keyboard (option).

02 Stoll-touchcontrol®: Inputs at CMS-machines directly on screen. Unique, individually adjustable display settings. With convenient order/sequence knitting and "pattern set-up" function.

03 Knitting systems: Independently operating for optimum system assignment and maximum production performance. Simultaneous transfer in both directions or split stitch operations.

04 Knitting system control with PTS (Power Tension Setting): Control of cam functions and stitch tension at CMS-machines by means of a step motor unit. Extremely short stitch density adjustment speed with PTS, for example in the case of ribbed knits with cables or in the selvedge areas.

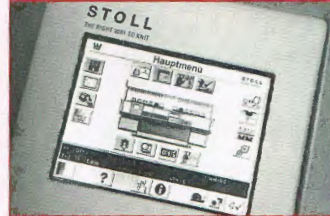
05 Electronic selection system: Two selection points for each system in each direction with CMS-machines. No moving parts – meaning no maintenance or wear.

06 CMS-needle: Pelerine spring transfer needle with spring-loaded latch and conical hook. No latch extension. Tight knitting action even in very coarse and very fine gauges. Extremely low needle consumption.

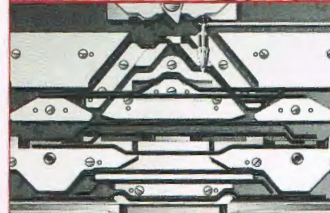
01



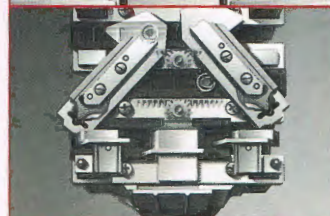
02



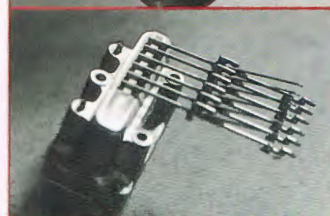
03



04



05



06



07



07 Moveable holding-down sinkers: Patent-protected Stoll-holding-down technology for knitting typical 3D CMS-wedge patterns. Creates sophisticated fabric appearance.

08



08 Suction device: Disposal of lint in the stitch-forming area. Extraction effect by means of electric turbines. Large lint container.

09



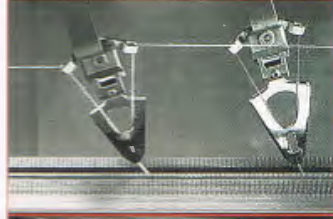
09 Monitoring and stop functions: Permanent monitoring of the knitting process. Automatic stop in case of faults. Monitors the thread line, needles, carriage movement and fabric.

10



10 Yarn control units: Separate knot detector for small and large knots. Error display by means of easily visible warning light. Scalable setting of required parameters. Easy yarn insertion.

11



11 Yarn feeders: Maximum of 32 for machines with one carriage (16 with thread clamping and cutting device) or 2 x 32 for tandem machines. Every CMS-machine is transformed into a perfect intarsia machine by simply slipping on the intarsia yarn feeders (option).

12



12 Gauge conversion/needle exchange: Permits fast, flexible and low-investment adjustment of CMS-machines in line with fashion demands.

More information on the highlights and data of our knitting machines and pattern workstation are available under www.stoll.com

01 Additional holder for yarn bobbins: For suspension on the back of the bobbin board. For 2 x 4, 2 x 5 or 2 x 7 additional bobbins depending on type.

01



02 Bobbin magazine: For suspension on the back of the machine. For space-saving, protected accommodation of up to five yarn bobbins.

02



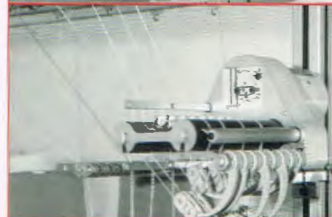
03 Holder for elastic yarns: For mounting on left or right of TC generation machines, to accommodate one bobbin with elastic yarn.

03



04 Friction feed wheel: Yarn delivery device for reduced, constant yarn tension. Standard equipment in Compact Class and Special Class machines.

04



05 STIXX: For measurement of stitch length, controls external influences on yarn consumption.

05



06 Keyboard with holder: Additional input keyboard with space-saving, ergonomically shaped holder for TC generation machines.

06



50 inch nominal width/max. working width

CMS 302 TC, CMS 303 TC, CMS 320 TC-C

CMS 320 TC, CMS 330 TC, CMS 340 TC, CMS 330 TC-R

CMS 320 TC multi gauge, CMS 330 TC multi gauge

Gauge	Number of usable needles
E 3	149
E 3,5	174
E 4	199
E 5	249
E 7	349
E 8	399
E 10	499
E 12	599
E 14	699
E 16	799
E 18	899
E 2,5,2	249
E 3,5,2	349
E 5,2	499
E 6,2	599
E 7,2	699
E 9,2	899

72 inch nominal width/max. working width

CMS 330 TC-L, CMS 340 TC-L, CMS 330 TC knit and wear

CMS 340 TC knit and wear, CMS 330 TC-T knit and wear

Tandem machine: CMS 311 TC-L

Gauge	Number of usable needles	
	One carriage/close coupling	Tandem operation
E 5	359	2 x 169
E 7	503	2 x 237
E 8	575	2 x 271
E 10	719	2 x 339
E 12	863	2 x 407
E 14	1007	2 x 475
E 16	1151	2 x 543
E 18	1295	2 x 611
E 2,5,2	359	—
E 3,5,2	503	—
E 5,2	719	—
E 6,2	863	—
E 7,2	1007	—
E 9,2	1295	—

84 inch nominal width/max. working width

CMS 340 TC-M, CMS 330 TC-C knit and wear

CMS 340 TC-M knit and wear

Tandem machine: CMT 211

Gauge	Number of usable needles	
	One carriage/close coupling	Tandem operation
E 5	419	—
E 7	587	—
E 8	671	—
E 10	839	2 x 380
E 12	1007	2 x 456
E 14	1175	2 x 532
E 16	1343	2 x 608
E 18	1511	2 x 684
E 2,5,2	419	—
E 3,5,2	587	—
E 5,2	839	—
E 6,2	1007	—
E 7,2	1175	—

96 inch nominal width/max. working width

Tandem machines: CMS 411 TC, CMS 422 TC,

CMS 433 TC

Coupling widths: 54/52/50/48 inch, CMS 433 TC

also 56 inch

Gauge	Number of usable needles					
	Close coupling	Tandem operation Coupling widths				
		56 inch	54 inch	52 inch	50 inch	48 inch
E 5	479	2 x 199	2 x 209	2 x 219	2 x 229	2 x 239
E 7	671	2 x 279	2 x 293	2 x 307	2 x 321	2 x 335
E 8	767	2 x 319	2 x 335	2 x 351	2 x 367	2 x 383
E 10	959	2 x 399	2 x 419	2 x 439	2 x 459	2 x 479
E 12	1151	2 x 479	2 x 503	2 x 527	2 x 551	2 x 575
E 14	1343	2 x 559	2 x 587	2 x 615	2 x 643	2 x 671

Remark: The gauges shown here are not available for all the models specified above. For more detailed information, please see our machine brochures or under www.stoll.com

Stoll-Pattern Innovations®: Here we have drawn up a breakdown of fields of the Stoll-Pattern Innovations®, which can be covered by our Special Class machines, and which fabric gauges are possible with which gauge of machine. However, all the information provided is strictly dependent upon the respective fabric requirements and can vary as well, depending on the yarn qualities used.

Gauge	Field of application	Possible gauges E
E 2,5.2	FG + MG A + KW	3 3,5 4 5 3 3,5 4
E 3,5.2	FG + MG A + KW	3,5 4 5 7 3,5 4 5
E 5.2	FG + MG A + KW	5 7 8 10 5
E 6.2	FG + MG A + KW	7 8 10 12 7 8
E 7.2	FG + MG A + KW	7 8 10 12 14 7 8 10
E 9.2	FG + MG A + KW	10 12 14 16 18 10 12

FG = Stoll-flexible gauge®

MG = Stoll-multi gauges®

A = Stoll-applications®

KW = Stoll-knit and wear®

Yarn table: Here we have a breakdown of the various Stoll-Pattern Innovations® covered by Special Class machines, indicating which fabric gauges are possible from which machine gauge. The information provided is a guide only and dependent upon the specific requirements and yarn qualities used. In general, we recommend using twisted yarns, and for coarse gauges the use of several twisted threads.

Gauge	Nm end number
E 3	1–2
E 3,5	1,4–2,5
E 4	1,4–3
E 5	3–4,5
E 7	4,5–7
E 8	6–8
E 10	8–12
E 12	10–18
E 14	14–20
E 16	20–30
E 18	20–40
E 2,5.2	3–4,5 all needles 1,3–2 every second needle
E 3,5.2	4,5–7 all needles 1,5–2,5 every second needle
E 5.2	8–12 all needles 3–4,5 every second needle
E 6.2	10–16 all needles 4,5–7 every second needle
E 7.2	14–20 all needles 6–8 every second needle
E 9.2	20–30 all needles 10–16 every second needle

Below is an overview of internationally accepted abbreviations for yarns and their meaning:

AC: Acetate	PES: Polyester
AF: Other fibers	PP: Polypropylene
CA: Hemp	PR: Regenerated protein fiber
CC: Coconut	PU: Polyurethane
CL: Polyvinylchloride	RA: Ramie
CO: Cotton	SE: Silk
CU: Cupro	SI: Sisal
EL: Elasthan	TA: Triacetate
LA: Rubber	TV: Trivinyln
GI: Broom	VI: Viscose
GL: Glass fiber	VY: Vinyal
JU: Jute	WA: Angora
KP: Kapok	WB: Beaver
LI: Linen	WG: Vicuna
MA: Modacrylic	WL: Lama
MD: Modal	WM: Mohair
MTF: Metal (Thread)	WO: Wool
PA: Polyamide	WP: Alpaca
PB: Polyurea	WS: Cashmere
PC: Polyacrilic	WV: Virgin Wool
PE: Polyethylene	WY: Yack
PI: Paper	

This table is used for the conversion of one yarn gauge into another. The specified yarn gauges mean:

TEX (Tt)

Grams per kilometre

COTTON (N_c)

840 yd lengths per lb

WORSTED (N_w)

560 yd lengths per lb

METRIC (Nm)

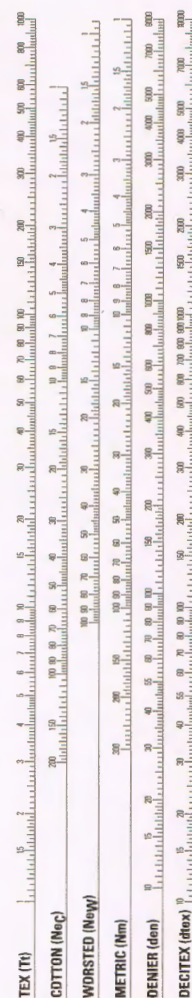
Metres per gram

DENIER (den)

Grams per 9000 metres

DECITEX (dtex)

Grams per 10000 metres



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CMS 320 TC CMS 320 TC multi gauge
 CMS 330 TC CMS 330 TC multi gauge
 CMS 340 TC CMS 330 TC knit and wear
 CMS 320 TC-C CMS 340 TC knit and wear
 CMS 330 TC-R CMS 340 TC-M knit and wear
 CMS 330 TC-L CMS 330 TC-C knit and wear
 CMS 340 TC-L CMS 330 TC-T knit and wear
 CMS 340 TC-M Pattern Workstation M1
 CMS 411 TC and M1 knit and wear
 CMS 422 TC
 CMS 433 TC