

Knitting unit	CMS 502 HP+ (multi gauge)	CMS 502 HP+ B (multi gauge)	CMS 520 C+ multi gauge	CMS 530 HP (multi gauge)	CMS 530 HP B (multi gauge)
Carriages knitting systems		1 × 2	1 × 2		1 × 3
Combined knitting-transfer systems with split function [01]		2	2		3
Electronic wear-free selection systems with 2 selection points		6	6		8
Dynamic tension setting with step motors; extremely quick adjustments of stitch tension with PTS (Power Tension Setting)		●	●		●
Drive Racking					
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) [02]		1.2	1.0		1.2
Max. speed by empty rows (m/s)		1.5	1.2		1.5
Racking course max. 4", programmable racking speed		●	●		●
Needle bed					
Nominal width max. working width, in inches (cm) in tandem version max. inches (cm)		45 (114) -	50 (127) -		50 (127) -
Gauges		E 7-18 [03] E 2,5.2-8.2 [04]	E 1,5.2 E 2.2		E 5-18 [05] E 2,5.-8.2 [06]
Gauge conversion		E 10-18 [07] E 2,5.2-3,5.2; E 6.2-8.2 [08]	E 1,5.2 E 2.2		E 5-8; E 10-18 [09] E 2,5.2-5.2; E 6.2-8.2 [10]
Knockover bits		●	-		●
Moveable holding-down jacks on both needle beds		●	-		●
Closed spring-loaded holding-down jacks		-	●		-
Pelerine spring-transfer needle with spring-loaded latch		●	●		●
Needle detector		●	●		●
Needle exchange [11]		○ [12]	-		○ [12]
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		-	-		○
Dimensions Weights					
Length: unpacked in the case on pallet, approx. in mm		2370 2650 2650	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
Height: unpacked in the case on pallet, approx. in mm		2050 1940 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
Control system Data processing					
STOLL-touchcontrol®: moveable color display slide with touch screen		● [13]	●		●
2 USB ports; hard-drive; online via Ethernet		●	●		●
Battery backup: correct continuation of the knitting process after power failure		●	●		●
Safety devices					
Fully enclosed working area		●	●		●
Machine complies with EC regulations (CE label)		●	●		●
Machine status lamp with alarm buzzer		●	●		●

Yarn guide	CMS 502 HP+ (multi gauge)	CMS 502 HP+ B (multi gauge)	CMS 520 C+ multi gauge	CMS 530 HP (multi gauge)	CMS 530 HP B (multi gauge)
Yarn control units		14 -	24		20 14 [14] 24 20 18 [15]
Active thread clamps, left right		- 8	8 8		8 8
Lateral yarn tensioners with scale, left right		8 8	12 12		12 12
Lateral thread brake, left right		- 8	8 8		8 8
Thread deflectors for optimum yarn guidance, left right		● ●	● ●		● ●
Yarn carrier rail yarn carrier		4 10	4 12		4 12
Intarsia yarn carrier		-	○		○
Plating yarn carrier		● [16]	○		○
Plating kit consisting of plating yarn carrier and bobbin holder		○	○		○
Devoré knit device		-	-		○
Plush device		-	-		○
Holders for bobbins		-	● (2 × 4)		● ○ (2 × 4) [17]
Additional holders for bobbins, mounted on the rear side of machine		-	○ (2 × 4)		○ (2 × 4)
Yarn feed unit					
Friction feed wheel, 8 tracks each, left right		○ ●	● ●		● ●
Storage feed wheel [18]		○	-		○
ASCON®, automatic stitch control, 8 measurement units, left right [19]		○ ○	○ ○		○ ○ [20]
Fabric take-down system					
Main take-down		●	-	●	●
Upper take-down		●	-	●	●
Take-down comb		●	-	●	●
Belt take-down		-	●	-	●
Cleaning device					
Suction device with turbine; with suction tube		-	●		●
Power					
Voltage connection		AC 230V +/-10%	AC 230V/400V +/-10%		AC 230V/400V +/-10%
Connection value, depending on operating status (KW: [21])		1.7	2.0		2.3

● Standard equipment	[10]	Conversion possible to a CMS 530 HP and CMS 530 HP knit and wear.	[16]	2 extra plating yarn carriers for track 4 and 5 as standard.
○ Optional equipment	[11]	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	[17]	For gauges E 5 - 8; E 2,5.2 - 5.2 E 10 - 18; E 6.2 - 8.2
[01]	All systems are fully independent. Knitting with the three-way technique, or simultaneous transfer to the front and rear.		[18]	Requires transformer, not in combination with ASCON®.
[02]	Depends on yarn and pattern structure.		[19]	System for measuring and regulating the stitch length.
[03]	Gauges E 7 10 12 14 16 18		[20]	- ● E 16; E 18; E 8.2
[04]	Gauges E 2,5.2 3,5.2 6.2 7.2 8.2		[21]	The electric power consumption during knitting always depends on the gauge and working conditions and will be considerably lower than the connection value indicated.
[05]	Gauges E 5 7 8 10 12 14 16 18			
[06]	Gauges E 2,5.2 3,5.2 5.2 6.2 7.2 8.2			
[07]	Conversion possible to a CMS 502 HP multi gauge.	[12]	4L needle possible for multi gauge machines.	
[08]	Conversion possible to a CMS 502 HP.	[13]	Not moveable display.	We reserve the right to make technical changes as our products are continuously undergoing further development. All data valid at time of printing 10/17-E.
[09]	Conversion possible to a CMS 530 HP multi gauge and CMS 530 HP knit and wear.	[14]	For gauges E 5 - 8 E 10 and higher.	
		[15]	For gauges E 2,5.2 + 3,5.2 + 5.2 E 6.2 + 7.2 E 8.2	

Knitting unit	CMS 530 HP W (multi gauge)	CMS 530 HP BW (multi gauge)	CMS 822 HP (multi gauge)	CMS 933 HP (multi gauge)
Carriages knitting systems	1 × 3		2 × 2	2 × 3
Combined knitting-transfer systems with split function [01]	3		4	6
Electronic wear-free selection systems with 2 selection points	8		12	16
Dynamic tension setting with step motors; extremely quick adjustments of stitch tension with PTS (Power Tension Setting)	●		●	●
Drive Racking				
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) [02]	1.2		1.2	1.2
Max. speed by empty rows (m/s)	1.5		1.5	1.5
Racking course max. 4", programmable racking speed	●		●	●
Needle bed				
Nominal width max. working width, in inches (cm) in tandem version max. inches (cm)	50 (127) -		84 (213) 2 × 42 (107)	96 (244) 2 × 48 (117)
Gauges	E 10-18 [03] E 6.2-8.2 [04]		E 5-18 [05] E 2.5.2-8.2 [06]	E 5-16 [07] E 2.5.2-8.2 [08]
Gauge conversion	E 10-18 [09] E 6.2-8.2 [10]		E 5-8; E 10-18 [09] E 2.5.2-5.2; E 6.2-8.2 [11]	E 5-8; E 10-16 [12] E 2.5.2-3.5.2; E 6.2-8.2 [13]
Knockover bits	●		●	●
Moveable holding-down jacks on both needle beds	●		●	●
Pelerine spring-transfer needle with spring-loaded latch	●		●	●
Needle detector	●		●	●
Needle exchange [14]	○ [15]		○ [15]	○ [15]
Thread clamping and cutting device, 8 units per side	● ●		● ●	-
Illuminated working space	●		●	●
Shock stop motion, front rear	● ●		● ●	● ●
Central lubrication of needle bed elements and carriage slide bars	○		○	●
Dimensions Weights				
Length: unpacked in the case on pallet, approx. in mm	2700 2970 2970		4025 4490 4490	5100 5460 5460
Width: unpacked in the case on pallet, approx. in mm	909 1140 1100		909 1150 1100	1062 1470 1420
Height: unpacked in the case on pallet, approx. in mm	2050 1900 1810		2050 1940 1810	2050 2090 1980
Weight: net gross with case gross with pallet, approx. in kg	1290 1618 1383		1670 2430 1930	2060 3060 2410
Control system Data processing				
STOLL-touchcontrol®: moveable color display slide with touch screen	●		●	●
2 USB ports; hard-drive; online via Ethernet	●		●	●
Battery backup: correct continuation of the knitting process after power failure	●		●	●
Safety devices				
Fully enclosed working area	●		●	●
Machine complies with EC regulations (CE label)	●		●	●
Machine status lamp with alarm buzzer	●		●	●

Yarn guide	CMS 530 HP W (multi gauge)	CMS 530 HP BW (multi gauge)	CMS 822 HP (multi gauge)	CMS 933 HP (multi gauge)
Yarn control units	20 18 14 [16]		32 26 20 [17] [18]	36 30 26 [19] [20]
Active thread clamps, left right	8 8		8 8	8 8
Lateral yarn tensioners with scale, left right	12 12		12 12	16 16
Lateral thread brake, left right	8 8		8 8	16 16 [21]
Thread deflectors for optimum yarn guidance, left right	● ●		● ●	● ●
Yarn carrier rail yarn carrier	4 12		4 12	4 12
Intarsia yarn carrier	○		○	○
Plating kit consisting of plating yarn carrier and bobbin holder	○		○	○
Devoré knit device	-		-	○
Plush device	-		-	○
Holders for bobbins	○ (2 × 4)		● ○ (2 × 5) [22]	● ○ (2 × 7) [22]
Additional holders for bobbins, mounted on the rear side of machine	○ (2 × 4)		○ (2 × 6)	○ (2 × 6)
Yarn feed unit				
Friction feed wheel, 8 tracks each, left right	● ●		● ●	○ ○ [23]
Storage feed wheel [24]	○		○	○
ASCONE®, automatic stitch control, 8 measurement units, left right [25]	○ ○ [26]		○ ○ [27]	○ ○
Fabric take-down system				
Main take-down	●	-	●	●
Upper take-down	●	-	●	●
Take-down comb	●	-	●	-
Belt take-down	-	●	-	-
Cleaning device				
Suction device with turbine; with suction tube		●	●	●
Power				
Voltage connection	AC 230V 400V +/-10%		AC 400V +/-10%	AC 400V +/-10%
Connection value, depending on operating status (KW: [28])	2.3		2.6	3.0

● Standard equipment	[12] Conversion possible to a CMS 933 HP multi gauge.	[21] With following permanent thread brake.
○ Optional equipment	[13] Conversion possible to a CMS 933 HP.	[22] For gauges E 5; E 2.5.2-5.2 E 7-18; E 6.2-8.2
[01] All systems are fully independent. Knitting with the three-way technique, or simultaneous transfer to the front and rear.	[14] 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	[23] Optional: friction feed wheel, 16 tracks each left/right. [24] Requires transformer, not in combination with ASCONE®. [25] System for measuring and regulating the stitch length [26] - ● E 18 or higher [27] ● ● E 16; E 18; E 8.2
[02] Depends on yarn and pattern structure.	[15] 4L needle possible for multi gauge machines.	[28] The electric power consumption during knitting always depends on the gauge and working conditions and will be considerably lower than the connection value indicated.
[03] Gauges E 10 12 14 16 18	[16] For gauges E 6.2-7.2 E 8.2 E 10 or higher.	We reserve the right to make technical changes as our products are continuously undergoing further development. All data valid at time of printing 10/17-E.
[04] Gauges E 6.2 7.2 8.2	[17] For gauges E 5 E 7-8 E 10-18	
[05] Gauges E 5 7 8 10 12 14 16 18	[18] For gauges E 2.5.2-5.2 6.2 7.2-8.2	
[06] Gauges E 2.5.2 3.5.2 5.2 6.2 7.2 8.2	[19] For gauges E 5 E 7-8 E 10-16	
[07] Gauges E 5 7 8 10 12 14 16	[20] For gauges E 3.5.2-5.2 E 6.2-7.2 E 8.2	
[08] Gauges E 2.5.2 6.2 7.2 8.2		
[09] Conversion possible to multi gauge or knit and wear.		
[10] Conversion possible to a CMS 530 HP W/BW or CMS 530 HP W/BW knit and wear.		
[11] Conversion possible to a CMS 822 HP or CMS 822 HP knit and wear.		