

	CMS 502 HP+ CMS 502 HP+ multi gauge	CMS 502 HP+ B CMS 502 HP+ B multi gauge	CMS 520 C+ multi gauge	CMS 530 HP CMS 530 HP multi gauge	CMS 530 HP B CMS 530 HP B multi gauge
Knitting Unit					
Carriages knitting systems	1 x 2		1 x 2		1 x 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	●		●		●
Racking course of additional needle beds, left right: max. 2"	-		-		-
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 2,5.2 - 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	-		-		○
Additional beds					
2 additional beds with transfer elements	-		-		-
Nominal width max. working width, in inches (cm)	-		-		-
2 external transfer systems	-		-		-
Shock stop motion, front rear	-		-		-
Yarn guide					
Yarn control units	14		24		20 14 [13] 24 20 18 [14]
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	● [21]		○		○
Plating kit consisting of plating yarn carrier and bobbin holder	○		○		○
Devoré knit device	-		-		○
Plush device	-		-		○
Holders for bobbins	-		● (2 x 4)		● ○ (2 x 4) [15]
Additional holders for bobbins, mounted on the rear side of machine	-		○ (2 x 4)		○ (2 x 4)
Yarn feed unit					
Friction feed wheel, 8 tracks each, left right	○ ●		● ●		● ●
Storage feed wheel [16]	○ (max. 2 x 6)		-		○ (max. 2 x 6)
ASCON®, automatic stitch control, 8 measurement units, left right [17]	○ ○		○ ○		○ ○ [18]
Fabric take-down system					
Main take-down	●	-	●	●	-
Upper take-down	●	-	●	●	-
Take-down comb	●	-	●	●	-
Belt take-down	-	●	●	-	●
Control system Data processing					
Stoll-touchcontrol®: moveable color display slide with touchscreen	● [19]		●		●
2 USB ports; hard-drive; online via Ethernet	● (1 USB port)		●		●
Battery back-up: 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	●		●		●
Cleaning device					
Suction device with turbine; with suction tube	-		●		●
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
Power					
Voltage connection	AC 230V +/-10%		AC 230V/400V +/-10%		AC 230V/400V +/-10%
Connection value, depending on operating status (KW: [20])	1,7		2,0		2,3

- Standard equipment
- Optional equipment

- [01] All systems are fully independent. Knitting with the three-way technique, or simultaneous transfer to the front and rear.
- [02] Depends on yarn and pattern structure.
- [03] Gauges E 5 | 7 | 10 | 12 | 14 | 16 | 18
- [04] Gauges E 2,5.2 | 3,5.2 | 6.2 | 7.2 | 8.2
- [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.
- [08] Conversion possible to a CMS 502 HP.
- [09] Conversion possible to a CMS 530 HP multi gauge and CMS 530 HP knit and wear.
- [10] Conversion possible to a CMS 530 HP and CMS 530 HP knit and wear.
- [11] With needle gauge:
Machine gauge E 5 ○ 4 | ● 5
Machine gauge E 7 ○ 5 | ● 7 | ○ 8
Machine gauge E 8 ○ 7 | ● 8
(not available for CMS 502 HP)
Machine gauge E 10 ● 10 | ○ 12
Machine gauge E 12 ○ 10 | ● 12
Machine gauge E 14 ● 14 | ○ 12
Machine gauge E 16 ● 16 | ○ 18
Machine gauge E 18 ● 18 | ○ 16
- [12] 4L needle possible for multi gauge machines.
- [13] For gauges E 5 - 8 | E 10 and higher.
- [14] For gauges E 2,5.2 + 3,5.2 + 5.2 | E 6.2 + 7.2 | E 8.2
- [15] For gauges E 5 - 8; E 2,5.2 - 8.2 | E 10 - 18
- [16] Requires transformer, not in combination with ASCON®.
- [17] System for measuring and regulating the stitch length.
- [18] - | ● E 16; E 18; E 8.2
- [19] Not moveable display.
- [20] The electric power consumption during knitting depends always on the gauge and working conditions and will be considerably lower than the connection value indicated.
- [21] 2 extra plating yarn carriers for track 4 and 5 as standard.

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	CMS 530 MT CMS 530 MT multi gauge	CMS 530 MT B CMS 530 MT B multi gauge	CMS 822 HP / CMS 822 HP multi gauge	CMS 933 HP / CMS 933 HP multi gauge
Knitting Unit				
Carriages knitting systems	1 x 3		2 x 2	2 x 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	●		●	●
Racking course of additional needle beds, left right: max. 2"	●		-	-
Needle bed				
Nominal width max. working width, in inches (cm) in tandem version max. inches (cm)	50 (127) -		84 (213) 2 x 42 (107)	96 (244) 2 x 48 (117)
Gauges	E 7 - 14 [03] E 7.2		E 5 - 18 [04] E 2,5,2 - 8,2 [05]	E 5 - 16 [06] E 3,5,2 - 8,2 [07]
Gauge conversion	E 12 E 14		E 5 - 8; E 10 - 18 [08] E 2,5,2 - 5,2; E 6,2 - 8,2 [09]	E 5 - 8; E 10 - 18 [10] E 3,5,2 - 5,2; E 6,2 - 8,2 [11]
Knockover bits	●		●	●
Moveable holding-down jacks on both needle beds	● [12]		●	●
Peliner spring-transfer needle with spring-loaded latch	●		●	●
Needle detector	●		●	●
Needle exchange	○		○ [13]	○ [13]
Thread clamping and cutting device, 8 units per side	● ● [15]		● ●	-
Illuminated working space	●		●	●
Shock stop motion, front rear	● ●		● ●	● ●
Central lubrication of needle bed elements and carriage slide bars	○		○	●
Additional beds				
2 additional beds with transfer elements (Monobloc)	●		-	-
Nominal width max. working width, in inches (cm)	50 (127)		-	-
2 external transfer systems	●		-	-
Shock stop motion, front rear	● ●		-	-
Yarn guide				
Yarn control units	18 14 [16] 20 [17]		32 26 20 [18] 32 26 20 [19]	36 30 26 [20] 36 30 26 [21]
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 [22]
Thread deflectors for optimum yarn guidance, left right	● ●		● ●	● ●
Yarn carrier rail yarn carrier	4 12		4 16	4 16
Intarsia yarn carrier	○		○	○
Plating kit consisting of plating yarn carrier and bobbin holder	○		○	○
Devoré knit device	-		-	○
Plush device	-		-	○
Holders for bobbins	○ (2 x 4) [23]		● ○ (2 x 5) [24]	● ○ (2 x 7) [25]
Additional holders for bobbins, mounted on the rear side of machine	○ (2 x 4)		○ (2 x 6)	○ (2 x 6)
Yarn feed unit				
Friction feed wheel, 8 tracks each, left right	● ●		● ●	○ ○ [26]
Storage feed wheel [27]	○ (max. 2 x 6)		○ (max. 2 x 6)	○ (max. 2 x 6)
ASCONE*, automatic stitch control, 8 measurement units, left right [28]	○ ○		○ ○ [29]	○ ○
Fabric take-down system				
Main take-down	●	-	●	●
Upper take-down	●	-	●	●
Take-down comb	●	-	●	-
Belt take-down	-	●	-	-
Control system Data processing				
Stoll-touchcontrol*: moveable color display slide with touchscreen	●		●	●
2 USB ports; hard-drive; online via Ethernet	●		●	●
Battery back-up: 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	●		●	●
Cleaning device				
Suction device with turbine; with suction tube	●		●	●
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
Power				
Voltage connection	AC 400V +/-10%		AC 400V +/-10%	AC 400V +/-10%
Connection value, depending on operating status: (KW: [30])	2,3		2,6	3,0

- Standard equipment
- Optional equipment

- [01] All systems are fully independent. Knitting with the three-way technique, or simultaneous transfer to the front and rear.
- [02] Depends on yarn and pattern structure.
- [03] Gauges E 7 | 8 | 10 | 12 | 14
- [04] Gauges E 5 | 7 | 8 | 10 | 12 | 14 | 16 | 18
- [05] Gauges E 2,5,2 | 3,5,2 | 5,2 | 6,2 | 7,2 | 8,2
- [06] Gauges E 5 | 7 | 8 | 10 | 12 | 14 | 16
- [07] Gauges E 3,5,2 | 5,2 | 6,2 | 7,2 | 8,2
- [08] Conversion possible to a CMS 822 HP multi gauge or CMS 822 HP knit and wear.
- [09] Conversion possible to a CMS 822 HP or CMS 822 HP knit and wear.
- [10] Conversion possible to a CMS 933 HP multi gauge.
- [11] Conversion possible to a CMS 933 HP.
- [12] Adjustable and variable on holding-down depth.
- [13] With needle gauge:
Machine gauge E 5 ○ 4 | ● 5
Machine gauge E 7 ○ 5 | ● 7 | ○ 8
Machine gauge E 8 ○ 7 | ● 8
(not available for CMS 502 HP)
Machine gauge E 10 ● 10 | ○ 12
Machine gauge E 12 ○ 10 | ● 12
Machine gauge E 14 ● 14 | ○ 12
Machine gauge E 16 ● 16 | ○ 18
Machine gauge E 18 ● 18 | ○ 16
- [14] 4L needle possible for multi gauge machines.
- [15] Independent of carriage.
- [16] For gauges E 7 - 8 | E 7 - 14
- [17] For gauges E 7.2
- [18] For gauges E 5 | E 7 - 8 | E 10 - 18
- [19] For gauges E 2,5,2 - 5,2 | 6,2 | 7,2 - 8,2
- [20] For gauges E 5 | E 7 - 8 | E 10 - 16
- [21] For gauges E 3,5,2 - 5,2 | E 6,2 - 7,2 | E 8,2
- [22] With following permanent thread brake.
- [23] Standard for E 7 - 8
- [24] For gauges E 5 | E 2,5,2 - 5,2 | E 7 - 18 | E 6,2 - 8,2
- [25] For gauges E 3,5,2 - 5,2 | E 5 | E 7 - 15 | E 6,2 - 8,2
- [26] Optional: friction feed wheel, 16 tracks each left/right.
- [27] Requires transformer, not in combination with ASCON*.
- [28] System for measuring and regulating the stitch length.
- [29] ● | ● E 16; E 18; E 8,2
- [30] The electric power consumption during knitting depends always on the gauge and working conditions and will be considerably lower than the connection value indicated.

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