

	CMS 830 S knit & wear	CMS 803 HP knit & wear	CMS 730 T knit & wear
<b>Knitting Unit</b>			
Carriages   knitting systems	1 x 3	1 x 3	1 x 3
Combined knitting-transfer systems [01]	3 [02]	3 [03]	3 [03]
Electronic wear-free selection systems with 2 selection points	8	8	8
Dynamic tension setting with step motors. Extremely quick adjustments of stitch tension with PTS (Power Tension Setting)	●	●	●
Manually controlled needle cam exit	●	-	-
Presser foot unit	●	-	-
<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) [04]	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"	-	-	●
<b>Needle bed</b>			
Nominal width   max. working width, in inches (cm) in tandem version max. inches (cm)	86 (218) -	84 (213) -	72 (183) -
Gauges	E 3,5,2   E 7,2   E 9,2 [05]	E 3,5,2   E 7,2 [05]	E 6,2   E 7,2
Gauge conversion	E 3,5,2 - 9,2 [06]	E 2,5,2 - 7,2 [07]	E 6,2   E 7,2
Moveable holding-down jacks on both needle beds	-	●	● [08]
Closed spring loaded holding-down jacks with motor control on both needle beds	●	-	-
Spring-controlled, adjustable holding-down jacks on both needle beds	-	-	-
Pelerine spring-transfer needle with spring-loaded latch	●	●	●
Needle detector	●	●	●
Knockover bits	-	●	-
Magnetic thread clamping device	●	-	-
Thread clamping and cutting device, 8 units per side	●   ● [09]	●   ●	●   ● [09]
Illuminated working space	●	●	●
Shock stop motion, front   rear	●   ●	●   ●	●   ●
Central lubrication of needle bed elements and carriage slide bars	●	-	○
<b>Additional beds</b>			
2 additional beds with transfer elements	-	-	●
Nominal width   max. working width, in inches (cm)	-	-	72 (183)
2 external transfer systems	-	-	●
Shock stop motion, front   rear	-	-	●   ●
<b>Yarn guide</b>			
Yarn control units	24   20 [10]	32   20 [11]	24   20 [12]
Active thread clamps, left   right	●   ●	●   ●	●   ●
Lateral yarn tensioners with scale, left   right	12	12	12
Lateral thread break, left   right	12	8	8
Thread deflectors for optimum yarn guidance, left   right	●   ●	●   ●	●   ●
Yarn carrier rail   yarn carrier	4   16	4   12	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 5)	○ (2 x 5)	○ (2 x 5)
Additional holders for bobbins, mounted on the rear side of machine	○ (2 x 6)	○ (2 x 6)	○ (2 x 5)
<b>Yarn feed unit</b>			
Friction feed wheel, 8 tracks each, left   right	●   ●	●   ●	●   ●
Storage feed wheel, max. 2 x 6 [13]	● [14]	○	○
ASCONE*, automatic stitch control, 8 measurement units, left   right [15]	○   ○	○   ○	○   ○
<b>Fabric take-down system</b>			
Main take-down	●	●	●
Upper take-down	●	●	●
Comb take-down	●	●	●
<b>Control system   Data processing</b>			
Stoll-touchcontrol*: moveable color display slide with touchscreen, 800 x 600 pixels	●	●	●
2 USB ports; hard-drive; online via Ethernet	●	●	●
Battery back-up: 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	●	●	●
<b>Cleaning device</b>			
Suction device with turbine; with suction tube	● [16]	-	●
<b>Dimensions   Weights</b>			
Length: unpacked   in the case   on pallet, approx. in mm	4025   4490   4490	4025   4488   4488	3550   3840   3840
Width: unpacked   in the case   on pallet, approx. in mm	909   1150   1100	909   1150   1102	909   1150   1100
Height: unpacked   in the case   on pallet, approx. in mm	2050   1940   1810	2050   1938   1810	2050   1940   1810
Weight: net   gross with case   gross with pallet, approx. in kg	1600   2359   1859	1650   2410   1910	1510   1994   1709
<b>Power</b>			
Voltage connection	AC 400V ± 10%	AC 400V ± 10%	AC 400V ± 10%
Connection value: depending on operating status (kw) [17]	2,7	2,3	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] With variable 2" stitch tension and motor controlled stitch preparation cams.
- [03] With split function.
- [04] Depends on yarn and pattern structure.
- [05] Other gauges available on demand.
- [06] E 7,2 - 9,2
- [07] Conversion possible to a CMS 803 HP or CMS 803 HP multi gauge upon request.
- [08] Adjustable and variable on hold-down depth.
- [09] Independent of carriage.
- [10] For gauges E 3,5,2 | E 7,2 + E 9,2
- [11] For gauges E 2,5,2 + E 3,5,2 + E 5,2 | E 6,2 and higher.
- [12] For gauges E 6,2 | E 7,2
- [13] Requires transformer, not in combination with ASCONE\*.
- [14] For gauge E 3,5,2 | E 9,2
- [15] System for measuring and regulating the stitch length.
- [16] With cleaning brush on suction tube.
- [17] The electric power consumption during knitting depends always 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 09/15-E.

	CMS 830 C knit & wear	CMS 822 HP knit & wear	CMS 530 HP knit & wear
<b>Knitting Unit</b>			
Carriages   knitting systems	1 x 3	2 x 2	1 x 3
Combined knitting-transfer systems [01]	3 [02]	4 [02]	3
Electronic wear-free selection systems with 2 selection points	8	12	8
Dynamic tension setting with step motors. Extremely quick adjustments of stitch tension with PTS (Power Tension Setting)	●	●	●
Manually controlled needle cam exit	-	-	-
Presser foot unit	-	-	-
<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) [03]	1.0	1.2	1.2
Max. speed by empty rows (m/s)	1.2	1.5	1.5
Racking course max. 4", programmable racking speed	●	●	●
Racking course of additional needle beds, left   right: max. 2"	-	-	-
<b>Needle bed</b>			
Nominal width   max. working width, in inches (cm) in tandem version max. inches (cm)	84 (213) -	84 (213) 2 x 42 (107)	50 (127) -
Gauges	E 2,5,2	E 2,5,2 - 7,2 [04]	E 2,5,2 - 7,2 [04]
Gauge conversion	-	E 2,5,2 - 5,2   E 6,2 - 7,2 [05]	E 2,5,2 - 5,2   E 6,2 - 7,2 [06]
Moveable holding-down jacks on both needle beds	-	●	-
Closed spring loaded holding-down jacks with motor control on both needle beds	-	-	-
Spring-controlled holding-down jacks on both needle beds	●	-	-
Pelerine spring-transfer needle with spring-loaded latch	●	●	●
Needle detector	●	●	●
Knockover bits	-	●	●
Magnetic thread clamping device	-	-	-
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	-	○	○
<b>Additional beds</b>			
2 additional beds with transfer elements	-	-	-
Nominal width   max. working width, in inches (cm)	-	-	-
2 external transfer systems	-	-	-
Shock stop motion, front   rear	-	-	-
<b>Yarn guide</b>			
Yarn control units	32	32   26   20 [07]	24   20 [08]
Active thread clamps, left   right	●   ●	●   ●	●   ●
Lateral yarn tensioners with scale, left   right	12	12	12
Lateral thread break, left   right	8	8	8
Thread deflectors for optimum yarn guidance, left   right	●   ●	●   ●	●   ●
Yarn carrier rail   yarn carrier	4   16	4   16	4   12
Intarsia yarn carrier	○	○	○
Plating kit consisting of plating yarn carrier and bobbin holder	○	○	○
Devoré knit device	-	-	○
Plush device	-	-	○
Holders for bobbins	● (2 x 5)	●   ○ (2 x 5) [09]	● (2 x 4)
Additional holders for bobbins, mounted on the rear side of machine	○ (2 x 6)	○ (2 x 6)	○ (2 x 4)
<b>Yarn feed unit</b>			
Friction feed wheel, 8 tracks each, left   right	●   ●	●   ●	●   ●
Storage feed wheel, max. 2 x 6 [10]	-	○	○
ASCONE*, automatic stitch control, 8 measurement units, left   right [11]	○   ○	○   ○	○   ○
<b>Fabric take-down system</b>			
Main take-down	●	●	●
Upper take-down	●	●	●
Comb take-down	●	●	●
<b>Control system   Data processing</b>			
Stoll-touchcontrol*: moveable color display slide with touchscreen, 800 x 600 pixels	●	●	●
2 USB ports; hard-drive; online via Ethernet	●	●	●
Battery back-up: 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	●	●	●
<b>Cleaning device</b>			
Suction device with turbine; with suction tube	●	●	●
<b>Dimensions   Weights</b>			
Length: unpacked   in the case   on pallet, approx. in mm	4025   4490   4490	4025   4490   4490	2700   2970   2970
Width: unpacked   in the case   on pallet, approx. in mm	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   1900   1810
Weight: net   gross with case   gross with pallet, approx. in kg	1690   2449   1949	1670   2430   1930	1240   1568   1333
<b>Power</b>			
Voltage connection	AC 400V ± 10%	AC 400V ± 10%	AC 230V / 400V ± 10%
Connection value: depending on operating status (kw) [12]	2,3	2,6	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] With split function.
- [03] Depends on yarn and pattern structure.
- [04] Gauges E 2,5,2 | 3,5,2 | 5,2 | 6,2 | 7,2
- [05] Conversion possible to a CMS 822 HP and CMS 822 HP multi gauge.
- [06] Conversion possible to a CMS 530 HP or CMS 530 HP multi gauge.
- [07] For gauges E 2,5,2 + E 3,5,2 + E 5,2 E 6,2 | E 7,2
- [08] For gauges E 2,5,2 - 5,2 | E 6,2 - 7,2
- [09] For gauges E 2,5,2 + E 3,5,2 + E 5,2 | E 6,2 and higher.
- [10] Requires transformer, not in combination with ASCONE\*.
- [11] System for measuring and regulating the stitch length.
- [12] The electric power consumption during knitting depends always 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 09/15-E.