

CMS 830 S knit & wear

CMS 730 T knit & wear

Knitting Unit		
Carriages knitting systems	1 x 3	1 x 3
Combined knitting-transfer systems [01]	3 [02]	3 [03]
Electronic wear-free selection systems with 2 selection points	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	●	-
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) [04]	1.2	1.2
Max. speed by empty rows (m/s)	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)	86 (218)	72 (183)
Gauges	E 3,5.2 E 7.2 E 9.2 [05]	E 6.2 E 7.2
Gauge conversion	○ [06]	○
Moveable holding-down jacks on both needle beds	-	● [07]
Closed spring loaded holding-down jacks with motor control 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	● ● [08]	● ● [08]
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)	-	72 (183)
2 external transfer systems	-	●
Shock stop motion, front rear	-	● ●
Yarn guide		
Yarn control units	24 20 [09]	24 20 [10]
Active thread clamps, left right	● ●	● ●
Lateral yarn tensioners with scale, left right	12 12	12 12
Lateral thread break, left right	12 12	8 8
Thread deflectors for optimum yarn guidance, left right	● ●	● ●
Yarn carrier rail yarn carrier	4 16	4 16
Intarsia yarn carrier	-	○
Plating kit consisting of plating yarn carrier and bobbin holder	○	○
Holders for bobbins	○ (2 x 5)	○ (2 x 5)
Additional holders for bobbins, mounted on the rear side of machine	○ (2 x 6)	○ (2 x 5)
Yarn feed unit		
Friction feed wheel, 8 tracks each, left right	● ●	● ●
Storage feed wheel, max. 2 x 6 [11]	● [12]	○
ASCON®, automatic stitch control, 8 measurement units, left right [13]	○ ○	○ ○
Fabric take-down system		
Main take-down	●	●
Upper take-down	●	●
Comb take-down	●	●
Control system Data processing		
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	●	●
Safety devices		
Fully enclosed working area	●	●
Machine complies with EC regulations (CE label)	●	●
Machine status lamp	●	●
Cleaning device		
Suction device with turbine; with suction tube	● [14]	●
Dimensions Weights		
Length: unpacked in the case on pallet, approx. in mm	4025 4490 4490	3550 3840 3840
Width: unpacked in the case on pallet, approx. in mm	909 1150 1100	909 1150 1100
Height: unpacked in the case on pallet, approx. in mm	2050 1940 1810	2050 1940 1810
Weight: net gross with case gross with pallet, approx. in kg	1600 2359 1859	1510 1994 1709
Power		
Voltage connection	AC 400V ± 10%	AC 400V ± 10%
Connection value: depending on operating status (kw) [15]	2,7	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 2nd 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] Only within the same gauge range possible.
- [07] Adjustable and variable on hold-down depth.
- [08] Independent of carriage.
- [09] For gauges E 3,5.2 | E 7.2 + E 9.2
- [10] For gauges E 6.2 | E 7.2
- [11] Requires transformer, not in combination with ASCON®.
- [12] For gauge E 3,5.2 | E 9.2
- [13] System for measuring and regulating the stitch length.
- [14] With cleaning brush on suction tube.
- [15] 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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	CMS 830 C knit & wear	CMS 822 HP knit & wear	CMS 530 HP knit & wear
Knitting Unit			
Carriages knitting systems	1 x 3	2 x 2	1 x 3
Combined knitting-transfer systems with split function [01]	3	4	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)	●	●	●
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]	1.0	1.2	1.2
Max. speed by empty rows (m/s)	1,2	1.5	1.5
Racking course max. 4", programmable racking speed	●	●	●
Needle bed			
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 [03]	E 2,5.2 - 7.2 [03]
Gauge conversion	-	○ [04]	○ [05]
Moveable holding-down jacks on both needle beds	-	●	●
Spring-controlled holding-down jacks on both needle beds	●	-	-
Pelrine spring-transfer needle with spring-loaded latch	●	●	●
Needle detector	●	●	●
Knockover bits	-	●	●
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	-	○	○
Yarn guide			
Yarn control units	32	32 26 20 [06]	24 20 [07]
Active thread clamps, left right	● ●	● ●	● ●
Lateral yarn tensioners with scale, left right	12 12	12 12	12 12
Lateral thread break, left right	8 8	8 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) [08]	● (2 x 4)
Additional holders for bobbins, mounted on the rear side of machine	○ (2 x 6)	○ (2 x 6)	○ (2 x 4)
Yarn feed unit			
Friction feed wheel, 8 tracks each, left right	● ●	● ●	● ●
Storage feed wheel, max. 2 x 6 [09]	-	○	○
ASCON®, automatic stitch control, 8 measurement units, left right [10]	○ ○	○ ○	○ ○
Fabric take-down system			
Main take-down	●	●	●
Upper take-down	●	●	●
Comb take-down	●	●	●
Control system Data processing			
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	●	●	●
Safety devices			
Fully enclosed working area	●	●	●
Machine complies with EC regulations (CE label)	●	●	●
Machine status lamp	●	●	●
Cleaning device			
Suction device with turbine; with suction tube	●	●	●
Dimensions Weights			
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
Power			
Voltage connection	AC 400V ± 10%	AC 400V ± 10%	AC 230V / 400V ± 10%
Connection value: depending on operating status (kw) [11]	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] Depends on yarn and pattern structure.
- [03] Gauges E 2,5.2 | 3,5.2 | 5,2 | 6.2 | 7.2
- [04] Only within the same gauge range. Conversion possible to a CMS 822 HP multi gauge or CMS 822 HP and vice versa.
- [05] Only within the same gauge range. Conversion possible to a CMS 530 HP multi gauge or CMS 530 HP and vice versa.
- [06] For gauges E 2,5.2 + E 3,5.2 + E 5.2 | E 6.2 | E 7.2
- [07] For gauges E 2,5.2 - 5.2 | E 6.2 - 7.2
- [08] For gauges E 2,5.2 + E 3,5.2 + E 5.2 | E 6.2 and higher.
- [09] Requires transformer, not in combination with ASCON®.
- [10] System for measuring and regulating the stitch length.
- [11] 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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