

TECHNICAL DETAILS

Knitting Unit	CMS 830 ki knit and wear	CMS 730 ki T knit and wear	CMS 530 ki knit and wear	CMS 202 ki B knit and wear
Carriages Combined knitting-transfer systems with split function ¹	1 x 3	1 x 3	1 x 3	1 x 2
Electronic wear-free selection systems with 2 selection points	8	8	8	6
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) ²	1.2	1.2	1.2	1.2
Max. speed by empty rows (m/s)	1.5	1.5	1.5	1.5
Racking course max. 4", programmable racking speed	●	● ³	●	●
Needle bed				
Nominal width max. working width, in inches (cm) in tandem version max. inches (cm)	84 (213)	72 (183)	50 (127)	24 (60)
Gauges ⁴	E2,5,2 - 9.2	E6.2 E7.2	E2,5,2 - 7.2	E6.2 E7.2 ⁴
Gauge conversion ⁵	●	●	●	●
Knock-over bits	●	●	●	●
Moveable holding-down jacks on both needle beds	●	Depth adjustable	●	●
Spring-loaded holding-down jacks	-	-	-	-
Pelerine spring-transfer needle with spring-loaded latch	●	●	●	●
Needle detector	●	●	●	●
Needle exchange	○	○	○	○
Thread clamping and cutting devices, left right	8 8	8 8 ⁶	8 8	- 12
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	4025 4488 4488	3550 3840 3840	2700 2970 2970	1838 2000 2000
Width: unpacked in the case on pallet, approx. in mm	909 1150 1102	909 1150 1100	909 1140 1100	909 1140 1100
Height: unpacked in the case on pallet, approx. in mm	2050 1938 1810	2050 1940 1810	2050 1900 1810	2050 1900 1800
Weight: net gross with case gross with pallet, approx. in kg	1650 2410 1910	1510 1994 1709	1290 1618 1383	736 994 831
Control system Data processing				
Slide Multi-Touch Panel with color display	●	●	●	● ⁷
2 USB ports; 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 830 ki knit and wear	CMS 730 ki T knit and wear	CMS 530 ki knit and wear	CMS 202 ki B knit and wear
Yarn control units	20-32 ⁸	20-24 ⁸	20-24 ⁸	12
Active thread clamps, left right	● ●	● ●	● ●	- ●
Lateral yarn tensioners with scale, left right	12 12	12 12	12 12	8 8
Lateral thread brake, left right	8 8	8 8	8 8	- 8
Thread deflectors for optimum yarn guidance, left right	●	●	●	●
Yarn carrier rail tracks yarn carrier	4 8 12	4 8 16	4 8 12	4 8 10
Intarsia yarn carrier	○	○	○	-
Plating yarn carrier	○	○	○	2
Plating kit consisting of plating yarn carrier and bobbin holder	○	○	○	○
Devoré kit with 1 system ⁹	○	-	○	○
Devoré kit with 2 systems ¹⁰	○	-	○	-
Plush device	○	-	-	-
Holders for bobbins, mounted on the rear side of machine	○ (2 x 5)	○ (2 x 5)	● (2 x 4)	○ (1 x 6)
Yarn feed unit				
Friction feed wheel, 8 tracks each, left right	● ●	● ●	● ●	○ ●
Storage feed wheel	○	○	○	○
ASCON ^{® 11} , automatic stitch control, 8 measurement units, left right	○	○	○	○
Fabric take-down system				
Comb take-down	●	●	●	-
Main take-down	Stoll-multiflex [®]	Stoll-multiflex [®]	Stoll-multiflex [®]	Belt take-down
Auxiliary take-down	●	●	●	-
Cleaning device				
Suction device with turbine; with suction tube	●	●	●	-
Power				
Voltage connection	(AC 400 V +/-10%)	(AC 400 V +/-10%)	(AC 230 V/400 V +/-10%)	(AC 230 V +/-10%)
Connection value, depending on operating status (kW)	2.3	2.3	2.3	1.7

- Standard equipment
- Special equipment

¹ All systems are fully independent. Knitting with the three-way technique, or simultaneous transfer to the front and rear.
² Depends on yarn and pattern structure.
³ Additional beds: 2"

⁴ Further gauges on request.
⁵ Possible within the same gauge range.
⁶ Independent of the carriage.
⁷ Not moveable display.
⁸ Depends on the gauge.
⁹ Only for fine gauges.
¹⁰ Gauge availability on request.
¹¹ System for measuring and regulating the stitch length.

Further special equipment on request.

We reserve the right to make technical changes as our products are continuously undergoing further development. All data valid at time of printing.

TECHNICAL DETAILS

Knitting Unit	ADF 830-24 ki W knit and wear	CMS 822 ki knit and wear	CMS 830 ki S knit and wear	CMS 830 ki C knit and wear
Carriages Combined knitting-transfer systems with split function ¹	1 x 3	2 x 2	1 x 3	1 x 3
Electronic wear-free selection systems with 2 selection points	8	12	8	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) ²	1.2	1.2	1.2	1.0
Max. speed by empty rows (m/s)	1.5	1.5	1.5	1.2
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)	86 (218)	84 (213)
Gauges ³	E6.2 - 9.2	E2,5.2 - 7.2	E3,5.2 E7.2 E9.2	E2,5.2
Gauge conversion	● ⁴	● ⁴	●	-
Knock-over 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	○	○	-	-
Thread clamping and cutting devices, left right	12 12	8 8	8 8	8 8
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	3950 4490 4490	4025 4490 4490	4025 4490 4490	4025 4490 4490
Width: unpacked in the case on pallet, approx. in mm	1203 1150 1100	909 1150 1100	909 1150 1100	909 1150 1100
Height: unpacked in the case on pallet, approx. in mm	1810 1940 1810	2050 1940 1810	2050 1940 1810	2050 1940 1810
Weight: net gross with case gross with pallet, approx. in kg	1750 2510 2010	1670 2430 1930	1600 2359 1859	1690 2449 1949
Control system Data processing				
Slide Multi-Touch Panel with color display	●	●	●	●
2 USB ports; 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	ADF 830-24 ki W knit and wear	CMS 822 ki knit and wear	CMS 830 ki S knit and wear	CMS 830 ki C knit and wear
Yarn control units	32	20-32 ⁵	20-24 ⁵	32
Active thread clamps, left right	-	● ●	● ●	● ●
Lateral yarn tensioners with scale, left right	-	12 12	12 12	12 12
Lateral thread brake, left right	-	8 8	12 12	8 8
Thread deflectors for optimum yarn guidance, left right	-	●	●	●
Yarn carrier rail tracks yarn carrier	6 12 24	4 8 16	4 8 16	4 8 16
Intarsia yarn carrier	24 (all in one)	○	-	○
Plating yarn carrier	24 (all in one)	○	○	○
Plating kit consisting of plating yarn carrier and bobbin holder	-	○	○	○
Devoré kit with 1 system ⁶	○	○	-	-
Devoré kit with 2 systems ⁷	-	-	-	-
Plush device	○	-	-	-
Additional holders for bobbins, mounted on the rear side of machine	● (4 x 6)	● (2 x 5) ⁸	○ (2 x 5)	● (2 x 5)
Yarn feed unit				
Friction feed wheel, 8 tracks each, left right	○	● ●	● ● ⁹	● ●
Storage feed wheel	○	○	● ¹⁰	-
ASCONE ¹¹ , automatic stitch control, 8 measurement units, left right	○ ○	○ ¹²	○ ○ ⁹	○ ○
Fabric take-down system				
Comb take-down	●	●	●	●
Main take-down	Stoll-multiflex*	Stoll-multiflex*	Stoll-multiflex*	Stoll-multiflex*
Auxiliary take-down	●	●	●	●
Cleaning device				
Suction device with turbine; with suction tube	●	●	●	●
Power				
Voltage connection	(AC 230 V/400 V +/-10%)	(AC 400 V +/-10%)	(AC 400 V +/-10%)	(AC 400 V +/-10%)
Connection value, depending on operating status (kW)	2.3	2.6	2.7	2.3

● Standard equipment
○ Special equipment

¹ All systems are fully independent. Knitting with the three-way technique or simultaneous transfer to the front and rear.
² Depends on yarn and pattern structure.
³ Other gauges available on demand.
⁴ Possible within the same gauge range.
⁵ Depends on the gauge.

⁶ Only for fine gauges.
⁷ Gauge availability on request.
⁸ For gauges E2,5.2 + E3,5.2 + E5.2 / option for gauges E6.2 and higher.
⁹ Standard right and left side for E7.2.
¹⁰ Standard 6x LGL ECOPOWER for E9.2 | E3,5.2.
¹¹ System for measuring and regulating the stitch length.
¹² Standard right and left side for E16 | E18 | E8.2.

Further special equipment on request.

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All data valid at time of printing: 05/19-E.*