

Knitting unit	CMS 730 ki T knit and wear	CMS 822 ki (multi gauge)	CMS 933 ki (multi gauge)	CMS 330 ki W TT sport CMS 330 ki BW TT sport	CMS 303 ki B TT sport	CMS 202 ki B
Carriages Combined knitting-transfer systems with split function ¹	1 × 3	2 × 2	2 × 3	1 × 3	1 × 3	1 × 2
Electronic wear-free selection systems with 2 selection points	8	12	16	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	1.2	1.2
Max. speed by empty rows (m/s)	1.5	1.5	1.5	1.5	1.5	1.5
Racking course max. 4", programmable racking speed	● ²¹	●	●	●	●	●
Needle bed						
Nominal width max. working width, in inches (cm) in tandem version max. inches (cm)	72 (183)	84 (213) 2 × 42 (107)	96 (244) 2 × 48 (117)	36 (90) -	30 (76) -	24 (60) -
Gauges	E12 E14	E 5 - 18 ³ E 2,5,2 - 8,2 ⁴	E 5 - 16 ⁵ E 2,5,2 - 8,2 ⁶	E7.2	E7.2	E6.2 E7.2
Gauge conversion	●	○ ⁷	○ ⁷	-	-	○ ⁷
Knockover bits	●	●	●	●	●	●
Moveable holding-down jacks on both needle beds	Depth adjustable	●	●	●	●	●
Pelerine spring-transfer needle with spring-loaded latch	●	●	●	●	●	●
Needle detector	●	●	●	●	●	●
Needle exchange ⁸	○	○	○	○	○	○
Thread clamping and cutting device, 8 units per side	8 8 ⁸¹	● ●	-	-	● ●	- 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	3550 3840 3840	4025 4490 4490	5100 5460 5460	2370 2650 2650	2370 2650 2650	1838 2000 2000
Width: unpacked in the case on pallet, approx. in mm	909 1150 1100	909 1150 1100	1062 1470 1420	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 2090 1980	2050 1940 1810	2050 1940 1810	2050 1900 1800
Weight: net gross with case gross with pallet, approx. in kg	1510 1994 1709	1670 2430 1930	2060 3060 2410	1028 1333 1108	1028 1333 1108	736 994 831
Control system Data processing						
Slide Multi-Touch Panel with color display	●	●	●	●	● ⁹	● ⁹
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	●	●	●	●	●	●

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Yarn control units	20-24 ¹¹	20 - 32 ¹⁰	26 - 36 ¹⁰		22	22	14 - 20 ¹⁰
Active thread clamps, left right	● ●	8 8	8 8	8 8	8 8	- 8	8 8
Lateral yarn tensioners with scale, left right	12 12	12 12	16 16	12 12	12 12	8 8	12 12
Lateral thread brake, left right	8 8	8 8	16 16 ¹¹	8 8	8 8	- 8	8 8
Thread deflectors for optimum yarn guidance, left right	●	● ●	● ●	● ●	● ●	● ●	● ●
Yarn carrier rail yarn carrier	4 16	4 12	4 12	4 12	4 12	4 8	4 10
Intarsia yarn carrier	○	○	○	○	○	-	-
Plating kit consisting of plating yarn carrier and bobbin holder	○	○	○	○	○	○	○
Devoré kit with 1 system ¹²	-	○	○	○	○	○	○
Devoré kit with 2 systems ¹³	-	-	○	○	○	○	-
Plush device	-	-	○	○	○	○	-
Holders for bobbins	○ (2 × 5)	● ○ (2 × 5) ¹⁴	● ○ (2 × 7) ¹⁴	● (2 × 4)	● (2 × 4)	○ (2 × 4)	-
Yarn feed unit							
Friction feed wheel, 8 tracks each, left right	● ●	● ●	○ ○ ¹⁵	● ●	● ●	● ●	● ●
Storage feed wheel ¹⁶	○	○	○	○	○	○	○
ASCONE®, automatic stitch control, 8 measurement units, left right ¹⁷	○	○ ○ ¹⁸	○ ○	○ ○	○ ○	○ ○	○ ○
Fabric take-down system							
Main take-down	Stoll-multiflex*	Stoll-multiflex*	double roller	Stoll-multiflex*	Belt take-down	Belt take-down	Belt take-down
Comb take-down	●	●	-	●	-	-	-
Auxiliary take down	●	●	●	●	-	-	-
Cleaning device							
Suction device with turbine; with suction tube	●	●	●	-	-	-	-
Power							
Voltage connection	(AC 400 V +/-10%)	AC 400V +/-10%	AC 400V +/-10%	AC 230V +/-10%	AC 230V +/-10%	AC 230V +/-10%	AC 230V +/-10%
Connection value, depending on operating status (KW: ¹⁹)	2.3	2.6	3.0	2.3	2.3	2.3	1.7

● Standard equipment

○ Optional 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.

^{2.1} Additional beds: 2"

³ Gauges E 5 | 7 | 8 | 10 | 10 | 12 | 12/10 | 14 | 14/12 | 16 | 18

⁴ Gauges E 2,5.2 | 3,5.2 | 2,5.2m4L | 5.2 | 6.2 | 7.2 | 8.2

⁵ Gauges E 5 | 7 | 8 | 10 | 12 | 14 | 16

⁶ Gauges E 2,5.2 | 2,5.2m4L | 6.2 | 7.2 | 8.2

⁷ Gauge conversion possible - within the same gauge range.

⁸

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

^{8.1}

Independent of the carriage.

⁹

Not moveable display.

¹⁰

Depends on the gauge.

¹¹

Within following permanent thread brake.

¹²

Only for fine gauges.

¹³

Gauge availability on request.

¹⁴

For gauges E 5; E 2,5.2 - 5.2 | E 7 - 18; E 6.2 - 8.2

¹⁵

Optional: friction feed wheel, 16 tracks each left/right.

¹⁶

Requires transformer, not in combination with ASCONE®.

¹⁷

System for measuring and regulating the stitch length.

¹⁸

● | ● E 16; E 18; E 8.2

¹⁹

The electric power consumption during knitting always depends 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 05/19-E.