

Knitting unit	CMS 502 ki (multi gauge) CMS 502 ki Bc (multi gauge)	CMS 520 ki C multi gauge	CMS 530 ki (multi gauge) CMS 530 ki Bc (multi gauge)	CMS 530 ki W (multi gauge)	CMS 530 ki BcW (multi gauge)
Carriages   Combined knitting-transfer systems with split function <sup>1</sup>	1 × 2	1 × 2	1 × 3		1 × 3
Electronic wear-free selection systems with 2 selection points	6	6	8		8
Dynamic tension setting with step motors; extremely quick adjustments of stitch tension with PTS (Power Tension Setting)	●	●	●		●
<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) <sup>2</sup>	1.2	1.0	1.2		1.2
Max. speed by empty rows (m/s)	1.5	1.2	1.5		1.5
Racking course max. 4", programmable racking speed	●	●	●		●
<b>Needle bed</b>					
Nominal width   max. working width, in inches (cm)	45 (114)	50 (127)	50 (127)		50 (127)
Gauges	E 7 - 18 <sup>3</sup>   E 2,5,2 - 7,2 <sup>4</sup>	E 1,5,2   E 2,2	E 5 - 18 <sup>5</sup>   E 2,5,2 - 8,2 <sup>6</sup>		E 10 - 18 <sup>7</sup>   E 6,2 - 8,2 <sup>8</sup>
Gauge conversion <sup>9</sup>	○	○	○		○
Knockover bits	●	-	●		●
Moveable holding-down jacks on both needle beds	●	-	●		●
Spring-loaded holding-down jacks	-	●	-		-
Pelerine spring-transfer needle with spring-loaded latch	●	●	●		●
Needle detector	●	●	●		●
Needle exchange <sup>10</sup>	○	-	○		○
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	-	-	○		○
<b>Dimensions   Weights</b>					
Length: unpacked   in the case   on pallet, approx. in mm	2370   2650   2650	2700   2970   2970	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		909   1140   1100
Height: unpacked   in the case   on pallet, approx. in mm	2050   1940   1810	2050   1900   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		1290   1618   1383
<b>Control system   Data processing</b>					
Slide Multi-Touch Panel with color display	● <sup>11</sup>	●	●		●
2 USB ports; online via Ethernet	●	●	●		●
Battery backup: 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 with alarm buzzer	●	●	●		●

Yarn guide	CMS 502 ki (multi gauge)	CMS 502 ki Bc (multi gauge)	CMS 520 ki C multi gauge	CMS 530 ki (multi gauge)	CMS 530 ki Bc (multi gauge)	CMS 530 ki W (multi gauge)	CMS 530 ki BcW (multi gauge)
Yarn control units		14	24		20 - 24 <sup>12</sup>		14 - 20 <sup>12</sup>
Active thread clamps, left   right		-   8	8   8		8   8		8   8
Lateral yarn tensioners with scale, left   right		8   8	12   12		12   12		12   12
Lateral thread brake, left   right		-   8	8   8		8   8		8   8
Thread deflectors for optimum yarn guidance, left   right		●   ●	●   ●		●   ●		●   ●
Yarn carrier rail   yarn carrier		4   10	4   12		4   12		4   12
Intarsia yarn carrier		-	○		○		○
Plating yarn carrier		● <sup>13</sup>	○		○		○
Plating kit consisting of plating yarn carrier and bobbin holder		○	○		○		○
Devoré kit with 1 system <sup>14</sup>		○	-		○		○
Devoré kit with 2 systems <sup>15</sup>		-	-		○		○
Plush device		-	-		○		○
Holders for bobbins		-	● (2 × 4)		●   ○ (2 × 4) <sup>16</sup>		○ (2 × 4)
<b>Yarn feed unit</b>							
Friction feed wheel, 8 tracks each, left   right		○   ●	●   ●		●   ●		●   ●
Storage feed wheel <sup>17</sup>		○	-		○		○
ASCONE®, automatic stitch control, 8 measurement units, left   right <sup>18</sup>		○   ○	○   ○		○   ○ <sup>19</sup>		○   ○ <sup>19</sup>
<b>Fabric take-down system</b>							
Main take-down		Stoll-multiflex*	Belt take-down	Stoll-multiflex*	Stoll-multiflex*	Belt take-down	Stoll-multiflex* Belt take-down
Comb take-down		●	●	●	●	●	● ●
Auxiliary take down		●	-	●	●	-	● -
<b>Cleaning device</b>							
Suction device with turbine; with suction tube		-	●		●		●
<b>Power</b>							
Voltage connection		AC 230V +/-10%	AC 230V/400V +/-10%		AC 230V/400V +/-10%		AC 230V   400V +/-10%
Connection value, depending on operating status (KW) <sup>20</sup>		1.7	2.0		2.3		2.3

- Standard equipment
- Optional equipment

<sup>1</sup> All systems are fully independent. Knitting with the three-way technique, or simultaneous transfer to the front and rear.

<sup>2</sup> Depends on yarn and pattern structure.

<sup>3</sup> Gauges E 7 | 12/10 | 14/12 | 16 | 18 | 18/16

<sup>4</sup> Gauges E 2,5.2 | 2,5.2m4L | 3,5.2 | 3,5.2 m4L | 6.2 | 7.2

<sup>5</sup> Gauges E 5 | 7 | 8 | 10 | 12 | 12/10 | 14 | 14/12 | 16 | 18 | 18/16

<sup>6</sup> Gauges E 2,5.2 | 2,5.2m4L | 3,5.2 | 3,5.2m4L | 5.2 | 6.2 | 7.2 | 8.2

<sup>7</sup> Gauges E 10 | 12 | 12/10 | 14 | 14/12 | 16 | 18

<sup>8</sup> Gauges E 6.2 | 7.2 | 8.2

<sup>9</sup> Possible within the same gauge range.

<sup>10</sup> 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

<sup>11</sup> Not moveable display.

<sup>12</sup> Depends on the gauge.

<sup>13</sup> 2 extra plating yarn carriers for track 4 and 5 as standard.

<sup>14</sup> Only for fine gauges.

<sup>15</sup> Gauge availability on request.

<sup>16</sup> For gauges E 5 - 8; E 2,5.2 - 5.2 | E 10 - 18; E 6.2 - 8.2

<sup>17</sup> Requires transformer, not in combination with ASCONE®.

<sup>18</sup> System for measuring and regulating the stitch length.

<sup>19</sup> - | ● E 16; E 18; E 8.2

<sup>20</sup> 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 09/19-E.

Knitting unit	CMS 730 ki T	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 <sup>1</sup>	1 x 3	2 x 2	2 x 3	1 x 3	1 x 3	1 x 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)	●	●	●	●	●	●
<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) <sup>2</sup>	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	● <sup>21</sup>	●	●	●	●	●
<b>Needle bed</b>						
Nominal width   max. working width, in inches (cm) in tandem version max. inches (cm)	72 (183)	84 (213) 2 x 42 (107)	96 (244) 2 x 48 (117)	36 (90) -	30 (76) -	24 (60) -
Gauges	E12   E14	E 5 - 18 <sup>3</sup>   E 2,5,2 - 8,2 <sup>4</sup>	E 5 - 16 <sup>5</sup>   E 2,5,2 - 8,2 <sup>6</sup>	E7.2	E7.2	E6.2   E7.2
Gauge conversion	●	○ <sup>7</sup>	○ <sup>7</sup>	-	-	○ <sup>7</sup>
Knockover bits	●	●	●	●	●	●
Moveable holding-down jacks on both needle beds	Depth adjustable	●	●	●	●	●
Pelerine spring-transfer needle with spring-loaded latch	●	●	●	●	●	●
Needle detector	●	●	●	●	●	●
Needle exchange <sup>8</sup>	○	○	○	○	○	○
Thread clamping and cutting device, 8 units per side	8   8 <sup>81</sup>	●   ●	-	-	●   ●	-   12
Illuminated working space	●	●	●	●	●	●
Shock stop motion, front   rear	●   ●	●   ●	●   ●	●   ●	●   ●	●   ●
Central lubrication of needle bed elements and carriage slide bars	○	○	●	○	○	○
<b>Dimensions   Weights</b>						
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
<b>Control system   Data processing</b>						
Slide Multi-Touch Panel with color display	●	●	●	●	● <sup>9</sup>	● <sup>9</sup>
2 USB ports; online via Ethernet	●	●	●	●	●	●
Battery backup: 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 with alarm buzzer	●	●	●	●	●	●

Yarn guide	CMS 730 ki T	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
Yarn control units	20-24 <sup>11</sup>	20 - 32 <sup>10</sup>	26 - 36 <sup>10</sup>		22	22	14 - 20 <sup>10</sup>
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 <sup>11</sup>	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 <sup>12</sup>	-	○	○	○	○	○	○
Devoré kit with 2 systems <sup>13</sup>	-	-	○	○	○	○	-
Plush device	-	-	○	○	○	○	-
Holders for bobbins	○ (2 × 5)	●   ○ (2 × 5) <sup>14</sup>	●   ○ (2 × 7) <sup>14</sup>	● (2 × 4)	● (2 × 4)	○ (2 × 4)	-
<b>Yarn feed unit</b>							
Friction feed wheel, 8 tracks each, left   right	●   ●	●   ●	○   ○ <sup>15</sup>	●   ●	●   ●	●   ●	●   ●
Storage feed wheel <sup>16</sup>	○	○	○	○	○	○	○
ASCONE®, automatic stitch control, 8 measurement units, left   right <sup>17</sup>	○	○   ○ <sup>18</sup>	○   ○	○   ○	○   ○	○   ○	○   ○
<b>Fabric take-down system</b>							
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	●	●	●	●	-	-	-
<b>Cleaning device</b>							
Suction device with turbine; with suction tube	●	●	●	-	-	-	-
<b>Power</b>							
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) <sup>19</sup>	2.3	2.6	3.0	2.3	2.3	2.3	1.7

● Standard equipment

○ Optional equipment

<sup>1</sup> All systems are fully independent. Knitting with the three-way technique, or simultaneous transfer to the front and rear.

<sup>2</sup> Depends on yarn and pattern structure.

<sup>2.1</sup> Additional beds: 2"

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

<sup>4</sup> Gauges E 2,5.2 | 3,5.2 | 2,5.2m4L | 5.2 | 6.2 | 7.2 | 8.2

<sup>5</sup> Gauges E 5 | 7 | 8 | 10 | 12 | 14 | 16

<sup>6</sup> Gauges E 2,5.2 | 2,5.2m4L | 6.2 | 7.2 | 8.2

<sup>7</sup> Gauge conversion possible - within the same gauge range.

<sup>8</sup>

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

<sup>8.1</sup>

Independent of the carriage.

<sup>9</sup>

Not moveable display.

<sup>10</sup>

Depends on the gauge.

<sup>11</sup>

Within following permanent thread brake.

<sup>12</sup>

Only for fine gauges.

<sup>13</sup>

Gauge availability on request.

<sup>14</sup>

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

<sup>15</sup>

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

<sup>16</sup>

Requires transformer, not in combination with ASCONE®.

<sup>17</sup>

System for measuring and regulating the stitch length.

<sup>18</sup>

● | ● E 16; E 18; E 8.2

<sup>19</sup>

The electric power consumption during knitting always depends on the gauge and working conditions and will be considerably lower than the connection value indicated.

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