

## 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 <sup>1</sup>	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)	●	●	●	●
<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
Max. speed by empty rows (m/s)	1.5	1.5	1.5	1.5
Racking course max. 4", programmable racking speed	●	● <sup>3</sup>	●	●
<b>Needle bed</b>				
Nominal width   max. working width, in inches (cm) in tandem version max. inches (cm)	84 (213)	72 (183)	50 (127)	24 (60)
Gauges <sup>4</sup>	E2,5,2 - 9.2	E6.2   E7.2	E2,5,2 - 7.2	E6.2   E7.2 <sup>4</sup>
Gauge conversion <sup>5</sup>	●	●	●	●
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 <sup>6</sup>	8   8	-   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	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
<b>Control system   Data processing</b>				
Slide Multi-Touch Panel with color display	●	●	●	● <sup>7</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 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 <sup>8</sup>	20-24 <sup>8</sup>	20-24 <sup>8</sup>	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 <sup>9</sup>	○	-	○	○
Devoré kit with 2 systems <sup>10</sup>	○	-	○	-
Plush device	○	-	-	-
Holders for bobbins, mounted on the rear side of machine	○ (2 x 5)	○ (2 x 5)	● (2 x 4)	○ (1 x 6)
<b>Yarn feed unit</b>				
Friction feed wheel, 8 tracks each, left   right	●   ●	●   ●	●   ●	○   ●
Storage feed wheel	○	○	○	○
ASCON <sup>® 11</sup> , automatic stitch control, 8 measurement units, left   right	○	○	○	○
<b>Fabric take-down system</b>				
Comb take-down	●	●	●	-
Main take-down	Stoll-multiflex <sup>®</sup>	Stoll-multiflex <sup>®</sup>	Stoll-multiflex <sup>®</sup>	Belt 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 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

<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> Additional beds: 2"

<sup>4</sup> Further gauges on request.  
<sup>5</sup> Possible within the same gauge range.  
<sup>6</sup> Independent of the carriage.  
<sup>7</sup> Not moveable display.  
<sup>8</sup> Depends on the gauge.  
<sup>9</sup> Only for fine gauges.  
<sup>10</sup> Gauge availability on request.  
<sup>11</sup> 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 <sup>1</sup>	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)	●	●	●	●
<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	1.0
Max. speed by empty rows (m/s)	1.5	1.5	1.5	1.2
Racking course max. 4", programmable racking speed	●	●	●	●
<b>Needle bed</b>				
Nominal width   max. working width, in inches (cm) in tandem version max. inches (cm)	84 (213)	84 (213)	86 (218)	84 (213)
Gauges <sup>3</sup>	E6.2 - 9.2	E2,5.2 - 7.2	E3,5.2   E7.2   E9.2	E2,5.2
Gauge conversion	● <sup>4</sup>	● <sup>4</sup>	●	-
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	○	○	●	-
<b>Dimensions   Weights</b>				
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
<b>Control system   Data processing</b>				
Slide Multi-Touch Panel with color display	●	●	●	●
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	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 <sup>5</sup>	20-24 <sup>5</sup>	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 <sup>6</sup>	○	○	-	-
Devoré kit with 2 systems <sup>7</sup>	-	-	-	-
Plush device	○	-	-	-
Additional holders for bobbins, mounted on the rear side of machine	● (2 x 4)	● (2 x 5) <sup>8</sup>	○ (2 x 5)	● (2 x 5)
<b>Yarn feed unit</b>				
Friction feed wheel, 8 tracks each, left   right	○	●   ●	●   ● <sup>9</sup>	●   ●
Storage feed wheel	○	○	● <sup>10</sup>	-
ASCON <sup>®11</sup> , automatic stitch control, 8 measurement units, left   right	○   ○	○ <sup>12</sup>	○   ○ <sup>9</sup>	○   ○
<b>Fabric take-down system</b>				
Comb take-down	●	●	●	●
Main take-down	Stoll-multiflex*	Stoll-multiflex*	Stoll-multiflex*	Stoll-multiflex*
Auxiliary take-down	●	●	●	●
<b>Cleaning device</b>				
Suction device with turbine; with suction tube	●	●	●	●
<b>Power</b>				
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

<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> Other gauges available on demand.  
<sup>4</sup> Possible within the same gauge range.  
<sup>5</sup> Depends on the gauge.

<sup>6</sup> Only for fine gauges.  
<sup>7</sup> Gauge availability on request.  
<sup>8</sup> For gauges E2,5.2 + E3,5.2 + E5.2 / option for gauges E6.2 and higher.  
<sup>9</sup> Standard right and left side for E7.2.  
<sup>10</sup> Standard 6x LGL ECOPOWER for E9.2 | E3,5.2.  
<sup>11</sup> System for measuring and regulating the stitch length.  
<sup>12</sup> 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: 08/19-E.*