

## Technical Data CMS 830 S knit&wear

Knitting Unit	
Carriages / knitting systems	1 x 3
Combined knitting-transfer systems with variable 2nd stitch tension and motor controlled stitch preparation cams [01]	3 [02]
Electronic wear-free selection systems with 2 selection points	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	●
Thread insertion with compressed air by means of external air supply	○
Drive / Racking	
Main drive: programmable speed; variable stroke; Power-RCR-System (Rapid Carriage Return); flexible speed adjustment using starting bar; CFC-protection system (Carriage Force Control)	●
Max. knitting speed (m/s) [03]	1,2
Racking: Racking course max. 4", programmable racking speed	●
Needle bed	
Nominal width / max. working width, in inches (cm)	86 (218)
Gauges	E 3,5,2   E 7,2   9,2
Gauge conversion	E 3,5,2 – 9,2
Closed spring loaded holding-down jacks with motor control on both needle beds	●
Magnetic thread clamping device	●
Pelerine spring-transfer needle with spring-loaded latch	●
Needle detector	●
Thread clamping and cutting device, independent of carriage, 8 per side	● [04]
Illuminated working space	●
Shock stop motion, front / rear	●   ●
Central lubrication of needle bed elements and carriage slide bars	●
Yarn guide	
Yarn control units	20   20
Active thread clamp left / right	●   ●
Lateral yarn tensioners with scale and following permanent thread brake, on each side	12
Thread deflectors for optimum yarn guidance	●
Yarn feeder rail / yarn feeder	4   14
Intarsia yarn feeder	○
Plating kit consisting of plating yarn feeder and bobbin holder	○
2 additional holders for 5 bobbins each	○
Additional holders for bobbins mounted on the rear side of the machine	○
Yarn feed unit	
Friction feed wheel, 8 tracks each left / right	●   ●
Storage feed wheel, max. 2 x 3 [05]	○ [06]
ASCON® – Stitch Calibration System, 8 measurement points, left / right [07]	○
Stoll-multiflex® fabric take-down system	
Main take-down: Tangential method of functioning, adjustable individual roller segments	●
Upper take-down	●
Take-down comb for start of fabric on empty needles	●
Control system / Data processing	
Memory (main computer)	256 MB
Stoll-touchcontrol®: moveable display slide with touchscreen; colour display 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-mark)	●
Machine status lamp	●
Cleaning device	
Suction device with turbine; with cleaning brush on suction tube	●
Dimensions / Weights	
Length: unpacked   in the case   on pallet, approx. in mm	4025   4488   4488
Width: unpacked   in the case   on pallet, approx. in mm	909   1150   1102
Height: unpacked   in the case   on pallet, approx. in mm	2050   1938   1810
Weight: net   gross with case   gross with pallet, approx. in kg	1640   2400   1900
Connection value, depending on operating status (kW)	2,7

- 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 2<sup>nd</sup> stitch tension and motor controlled stitch preparation cams.

[03] Depends on yarn and pattern structure.

[04] Independent of carriage.

[05] Requires transformer, not in combination with ASCON®.

[06] Standard for gauges E 3,5,2 and E 9,2.

[07] System for measuring and regulating the stitch length.

We reserve the right to make technical changes as our products are continuously undergoing further development. All data valid at time of printing 06/13-E.