

# MC-835



## Computer Controlled Automatic Three-System Flat Bed Knitting Machine for Fully Fashioned Fabrics

Whatever you knit



Dimensions	E7-12	E5	
	length: 3800,0 mm* width: 960,0 mm height: 2150,0 mm	length: 3800,0 mm* width: 1263,0 mm** height: 2150,0 mm	* including monitor **including additional bobbins
Weight net kg (approx.)	1500	1500	
<b><u>Technical Specifications</u></b>			
Gauges	E5, 7, 8,10,12 (additional gauges on request)		
Systems	3 identical systems. Each cam system can simultaneously and selectively transfer or receive stitches. Five-way technique: individual selection of long stitch, short stitch, long tuck loop, short tuck loop, and floating. Each system can be used for knitting or transferring not depending on the carriage traverse direction. Transferring is possible from the front to the rear, from the rear to the front, or in both directions simultaneously.		
Working Width	48 inches = 1219 mm		
Main Drive	Reversible drive with AC servo motor and flat toothed belt. Programmable speed up to 1,2 m/s (for gauge E10/12: max. 1,1 m/s). Adjustable automatic traverse optimisation.		
Carriage	A light alloy carriage of compact construction.		
Needles	Retracted UNIVERSAL spring latch needles with spreading springs for transferring.		
Needle Selection	Electronic single needle selection with mono-magnetic switches.		
Pressjack®	Pressjack® unit for special stitch constructions, 3D patterns and preformed fabrics.		
Stitch Length	Two different values controlled by separate step motors, can be programmed not depending on each other as static, dynamic, or selective stitch length, or as combination of those.		
Racking	Racking distance max. ± 2,5 inches (max. 5 inches). Unlimited number of individually adjustable racking positions. Programmable stretching. Two pre-defined transferring positions and semi-racking. Center racking for increased productivity.		
Comb Take-Down	Controlled comb take-down for the fabric beginning. The take down force can be regulated.		
Additional Take-Down	Homogeneous torque distribution by multiple take-down roller bearings. Opening and closing the rollers as well as the pressure can be programmed as required.		
Fabric Take-Down	Convenient electronically controlled fabric take-down unit. The take-down force can be programmed or is determined automatically depending on the number of needles used. Fast run and reverse run (for releasing the fabric) can be controlled as required. Individually spring-suspended take-down rollers.		



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## **Technical Specifications**

<b>Yarn Carrier Ralls</b>	4 double profile rails. Track 1 through 7 are equipped with a yarn carrier box each, rail 8 with 2 yarn carrier boxes. The yarn carrier boxes can be used as single or multiple boxes. The yarn carrier positions can be programmed as required, or they can be optimised automatically. Bloc with two programmable yarn clamps and a pair of scissors.
<b>Yarn Guide Unit</b>	Low bobbin board, height of the yarn guide unit can be adjusted. 20 (31 for gauge E5) combined knot and yarn break detectors with indicator lamps. Self-cleaning yarn brakes. Feed-wheel and yarn-retrieval units. Blower unit for the yarn guide unit.
<b>Intarsia</b>	Normal yarn carriers and special intarsia yarn carriers (option) can be combined on the rails 2 through 7.
<b>Safety Units</b>	Closed transparent cover with electrical and switch according to DIN EN 1088. Emergency shut-down according to EN 418.
<b>Signalling Device</b>	Three-colour highly-visible signal lamp indicating production, operational stop, and error stop.
<b>Fault Detectors</b>	Yarn breakage, knot, load-up, shock, overload, fabric loss, fabric wind-up, and temperature control of important control units.
<b>Maintenance</b>	Programmable needle-bed lubrication unit.
<b>Cleaning</b>	In the front and rear cam blocs 1 blow pipe each for cleaning the comb profile and the Pressjack® sinkers.

## **Control**

<b>Control Unit</b>	Modular multi-processor system with CAN field-bus and standard PC as host computer.
<b>Pattern Memory</b>	Dynamic memory management, large knitting programs can be processed. Multiple patterns can be loaded into the memory.
<b>Operating console</b>	Standard 15" multi-sync colour monitor, PC compatible keyboard with trackball.
<b>Recording medium</b>	3,5" HD-diskette
<b>Programming</b>	All the fabrics can be programmed on the machine directly using convenient and clear lists.
<b>Option</b>	Fast and convenient program generation on the MA 8500 fabric design workstation.
<b>Data storage</b>	On hand disk
<b>Power Supply</b>	2,5 kVA. Voltage adjustable 3 x 190 V, 200 V, 230 V, 280 V, 346 V, 380 V, 400 V, 415 V, 440 V. Mains frequency 50/60 HZ

## **Special Equipment**

Stitch splitting on each cam system, can be activated by the knitting program, no conversion is required.  
Clamps and scissors for the right side.  
Pressjack® unit for the rear needle bed.  
Intarsia yarn carrier boxes for tracks 2 through 7.  
Network connection to the MA-8500 fabric design workstation.  
Carriage bull-out and turning unit  
Plush unit (not in combination with PPJ)  
Bobbin supports (magnets)  
Plating feeder  
Continuous fabric take-up roller  
Additional equipment on request.



The machine with the EC Machine Regulation, the EC Low-Voltage Regulation, the EC Electro-Magnetic Compatibility Regulation, and is provided with the CE mark

Construction and equipment subject to change without notice