

MC-830



Computer Controlled Automatic Three-System Flat Bed Knitting Machine

Whatever you knit



Dimensions	E7-12	E5	
	length: 4592,5 mm*	length: 4592,5 mm*	* including monitor
	width: 960,0 mm	width: 1263,0 mm**	**including additional bobbins
	height: 2150,0 mm	height: 2150,0 mm	

Weight net kg (approx.)	1500	1500
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Technical Specifications

Gauges	E5, 7, 8, 10, 12 (additional gauges on request)
Systems	3 identical systems. Any 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	94 inches = 2387 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	One 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.
Fabric Take-Down	Convenient electronically controlled fabric take-down unit. The take-down force can be programmed or is determined automatically. Fast run and reverse run (for releasing the fabric) can be controlled as required. Individually spring-suspended take-down rollers.
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.



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Technical Specifications

Yarn Carrier Rails	4 double profile rails with 8 x 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.
Yarn Guide Unit	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.
Intarsia	Normal yarn carriers and special intarsia yarn carriers (option) can be combined on the rails 2 through 7.
Safety Units	Closed transparent cover with electrical and switch according to DIN EN 1088. Emergency shut-down according to EN 418.
Signalling Device	Three-colour highly-visible signal lamp indicating production, operational stop, and error stop.
Fault Detectors	Yarn breakage, knot, load-up, shock, overload, fabric loss, fabric wind-up, and temperature control of important control units.
Maintenance	Programmable needle-bed lubrication unit.

Control

Control Unit	Modular multi-processor system with CAN field-bus and standard PC as host computer.
Pattern Memory	Dynamic memory management, large knitting programs can be processed. Multiple patterns can be loaded into the memory.
Operating console	Standard 15" multi-sync colour monitor, PC compatible keyboard with trackball.
Recording medium	3.5" HD-diskette.
Programming	All the fabrics can be programmed on the machine directly using convenient and clear lists.
Option	Fast and convenient program Generation on the MA-8500 fabric design workstation.
Data storage	On hard disk.
Power Supply	2,5 kVA. Voltage adjustable for 3 x 190 V, 200 V, 230 V, 280 V, 346 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.
All the functions of the standard equipment are still available without restrictions.
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.
Additional bobbin plates (contained in the standard equipment for gauge E5)
Plush unit
Carriage pull-out and turning unit
Additional yarn guide unit
Bobbin supports (magnets)
Plating feeder
Blower unit



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