

MC-820



Two-System Computer Controlled Automatic Flat Bed Knitting Machine

Whatever you knit



Dimensions	E7-12	E5	
	length: 4592,5 mm* width: 960,0 mm height: 1680,0 mm	length: 4592,5 mm* width: 1263,0 mm** height: 2150,0 mm	* including monitor **including additional bobbin board
Weight	approx. 1350 kg net		
<u>Technical Specifications</u>			
Gauges	E 5, 7, 8, 10, 12 (additional gauges on request)		
Systems	2 identical systems. Any cam system can simultaneously and selectively transfer or receive stitches. Five-way technique: individual selection of long and short stitch, long and short tuck loop, and floating. Each system can be used for knitting or transferring, not depending on the carriage traverse direction. Transferring can be carried out 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 E12: max. 1,1 m/s). Adjustable automatic traverse optimisation.		
Carriage	One light alloy carriage of compact construction.		
Needles	Retracted UNIVERSAL spring latch needle with spreading spring for transferring.		
Needle Selection	Electronic individual needle selection via mono magnets.		
Pressjack® unit	Pressjack® unit for special stitch construction, 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 predefined transferring positions and semi-racking. Center racking for increased productivity.		
Fabric Take-Down	Convenient electronically controlled fabric take-down unit. The take-down tension can be programmed or is calculated 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.		
Additional Take-Down	Homogeneous torque distribution by multiple take-down roller bearings. Opening and dosing of the rollers as well as the pressure can be programmed as required.		



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Yarn Carrier Rails	4 double profile rails with 9 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. 28 (42 for gauge E5) combined knot and yarn break detectors with indicator lamps. Self-cleaning yarn brakes. Positive feeding device and yarn-retrieval unit.
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.
Cleaning	In the front and rear cam blocs 1 blow pipe each for cleaning the comb profile and the Pressjack® sinkers.
<u>Control</u>	
Control	Modular multi-processor system with CAN field-bus system 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 (operating element).
Recording Medium	3,5" HD diskette
Programming	All the fabric can be programmed on the machine directly using convenient and clear lists.
Data Storage	On hard disk.
Electrical Connection	Power consumption max. 2,5 kVA. Voltage adjustable for 190 V, 200 V, 230 V, 280 V, 346 V, 380 V, 400 V, 415 V, 440 V. Mains frequency 50/60 Hz. Mains fuse at the customers premises 16 A slow. For the mains connection, the customer has to provide a CEE from power outlet according to DIN 49462/63.

Special Equipment

- Stitch splitting on each cam system, front and rear, can be activated by the knitting program, no conversion is required. All the functions of the standard equipment can still be used without restriction.
- Pressjack® unit for the rear needle bed.
- Intarsia yarn carrier boxes for rails 2 through 7.
- Network connection to the MA-8500 fabric design workstation.
- Additional bobbin board (standard equipment with E5).
- Carriage removal device
- Additional yarn guide unit
- Plush unit
- Bobbin supports (magnets).
- Plating feeder.



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