MC-848

Computer
Controlled Automatic Two-System Double-Head
Flat Bed Knitting Machine

UNIVERSAL

Whatever you knit

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

Weight
net kg (approx.)   1550   1550

Technical Specifications

Gauges
E5, 7, 8, 10, 12 (additional gauges on request)

Systems
4 identical systems (2 X 2 or 1 x 4)
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
2 x 2 systems: 2 x 47 inches (max.) = 2 x 1194 mm
1 x 4 systems: 90 inches = 2286 mm, max. 98 inches = 2489 mm

Conversion
The machine can be converted quickly to a four-system flat bed knitting machine with a maximum working, width of 98 inches.

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
Two tight alloy carriages of compact construction.

Needles
Retracted UNIVERSAL spring latch needles with spreading springs.

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. Centre 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.

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. 28 (42 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 track 2 through 7.

Network connection to the MA-8500 fabric design workstation.

Additional yarn guide unit

Plush unit

Carriage pull-out and turning unit

Bobbin supports (magnets)

Plating feeder