

MC-825 CXL



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

Whatever you knit



Dimensions

E 3 - 4

length: 4210,0 mm*
width: 1170,0 mm**
height: 2150,0 mm

* including monitor
** including additional bobbins

Weight

net kg (approx.)

1650

1650

Technical Specifications

Gauges

E3 and E4

Systems

2 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. Adjustable lateral parts for the position "under comb level". 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

64 inches = 1626 mm (MC-825C = 48 inches)

Main Drive

Reversible drive with AC servo motor and flat toothed belt.
Programmable speed up to 1,2 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 individual needle selection via mono-magnets.

Pressjack®

Each front system is equipped with an adjustable Pressjack® unit enabling special stitch constructions, especially 3D patterns and special 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. Fabric spreader unit to improve the formation of selvage loops and the take-down.



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Whatever you knit

Yarn Carrier Rails	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.
Yarn Guide Unit	Low bobbin board, height of the yarn guide unit can be adjusted. 30 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.
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.
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
Electrical connection	Power consumption max. 2,5 kVA. Voltage adjustable for 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. Mains fuse at the customers premises → 16A slow.
Pneumatic connection	Pressure range 6-8 bar, capacity 1000 l/min. at the customers premises, a connecting hose with an inside diameter of 9 mm is required.
<u>Special Equipment</u>	Clamps and scissors for the right side. Network connection to the MA-8500 fabric design workstation. Carriage pull-out and turning unit Continuous fabric take-down shaft Bobbin supports (magnets) Covered comb with auxiliary take-down system 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