

M SERIES

"FUKUHARA"

**Computerized Double-Knit
Jacquard Machine with Needle
Selection on Both Cylinder & Dial**

M-LEC6DSI



*The photo may include optional items.

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□ M-LEC6DSI

Multi-feeder electronic jacquard knitting machine with double needle selection developed by upgrading the cylinder needle selection of the current V-LEC6DSIB (2-position needle selection both on cylinder and on dial) to the 3-position needle selection, thus allowing for knitting of a greater variety of fabrics. With 72 feeders on 38" , which are nearly the utmost limit for the electronic jacquard knitting machine with double needle selection mechanism, and furthermore with 3-position needle selection on the cylinder side .

STANDARD SPECIFICATION

● Diameter	: 36" 38" 42"
● No. of feed	: 64 72 80
● Gauge (n.p.i.)	: 12G - 28G
● Frame	: "M" frame (single bed for high speed operation), Quick change facility cylinder/dial
● Drive	: AC Inverter with 5.5KW motor
● Take-up	: ACT-7 Servo-motor controlled friction roll system (Max. fabric roll dia. 580mm)
● Cylinder cam	: Semi-closed cam (stitch/raising separate type) 3-position (K, T, W) needle selection with S.S. actuators Stitch draw amount 12G-15G=3mm 16G-28G=2.5mm
● Dial cam	: Semi-closed cam (stitch/raising separate type) 2-position (K, W) needle selection with S.S. actuators Stitch draw amount 12G-15G=2.5mm 16G-28G=2mm
● Cam timing	: Synchronized timing
● Yarn feeding device	: SFE (1 unit/F) 1 ring
● Yarn supplying device	: Provision for side creel without creel
● Yarn carrier	: Individual block type yarn carriers with a corner hole [OP] ring-mounting system
● Size ring	: Light-weight CADRATEX
● Oiling device	: Projectile LF lubricator
● Auxiliary equipment	: FMC-50 (memory: 16MW) Operation panel FCP-60 (built-in USB connector) Cooling fans (for the cylinder actuators)

OPTIONAL EXTRAS

- Large take-up on high legs (Max. fabric roll dia. 850mm or 1000mm)
- ACT-7 self-winding type method
- Parts for elastomeric yarn plating
- Yarn feeding device "LGL COMPACT" by LGL Electronics and "MPF P" by MEMMINGER-IRO
- Mattress ticking knitting parts
- Yarn carrier ring system
- CADRATEX fabric spreader
- MEMMINGER-IRO Pulsonic oiler
- Auto-oiler
- Lint fans
- Flutter blower
- Top stop-motions
- Bottom stop-motions with slub catcher
- Cylinder/dial change tool
- "FDS" pattern preparation system
- "Knit Server Software" pattern transfer software

SPECIAL FEATURES

● Multi-feeder electronic jacquard knitting machine with double needle selection mechanism

The electronic jacquard knitting machine with double needle selection mechanism is equipped with ultimate multi-feeders, namely 72 feeders on 38" and achieves approximately 20% production increase when compared with the conventional V-LEC4DSI. The level of the difficulty in knitting normal jacquard and mattress ticking fabrics depends on fabric structures, patterns and yarns and there are cases where highly advanced knitting technology is demanded. By maximizing the needle selection system on the dial, the double needle selection electronic jacquard knitting machine makes it relatively easy to produce fabrics which are difficult to knit on knitting machines.

● FMC-50 controller

The controller is a newly developed FMC-50 which supports high speed operation and multi-feeders. Being capable of transmitting necessary data accurately and reliably to the multi-feeder and to the knitting machine running at high speed, the controller can demonstrate a stabilized needle selection performance.

● ACT-7 motor-driven automatic take-up

Mounted on this model is an ACT-7 servo motor-driven automatic take-up unit with reduced weight and improved maintainability. Thanks to the redesigned frame structure, the take-up drive roll can be replaced easily. Also, 3 rubber rolls and the reel roll anti-reverse rotation unit installed as standard equipment have further improved the performance and operability of the knitting machine. Self winding specification parts are also available as an option.

● High quality mattress ticking fabrics utilizing "float stitch control"

If a mattress ticking fabric is knitted on an ordinary electronic jacquard machined, the quality of the fabric is degraded as the float yarns not knitted in the pattern on the cylinder side are seen through the fabric. However, it is possible to knit the float yarns into the dial side on this model using the "float stitch control" system.

This achieves clear and distinctive patterns without see through effect and larger patterns which have been difficult to be knitted by the existing machines.

FABRIC POTENTIAL

[ST]: Full jacquards, 3-position structure patterns on cylinder, 2-position structure patterns on dial.

[OP]: Mattress ticking fabrics
Elastomeric yarn plating

* The above specification may be changed without notice.

* Conditions of sales may vary from country to country.

All information in this brochure is given in good faith but without warranty.

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