

# M SERIES

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**“FUKUHARA”**

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

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**M-LEC7DSI  
M-LEC7DSIB**

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\*The photo may include optional items.

**FUKUHARA**

## ☐ M-LEC7DSI    ☐ M-LEC7DSIB

M-LEC7DSI(B) is a double side selection multi-feeder electronic Jacquard machine with a greater number of knitting feeds than the M-LEC6DSI(B) for greater fabric production.

2.2 feeds per diameter inch, an extreme amount for a double side needle selection electronic Jacquard model, has been realized. It is now possible to significantly increase the production amount of fabrics with the same high quality possible on the conventional M-LEC6DSI(B). (M-LEC7DSI offers 3-position cylinder selection and M-LEC7DSIB offers 2-position cylinder selection)

### STANDARD SPECIFICATION

- Diameter : 36" 38"
- No. of feed : 80F (1G) 84F (1G)
- Gauge (n.p.i.) : 18G - 28G
- Frame : "M" frame (single bed for high speed operation), quick change cylinder/dial facility
- 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)  
2-position (K, W) needle selection with S.S. actuators [M-LEC7DSIB]  
3-position (K, T, W) needle selection with S.S. actuators [M-LEC7DSI]  
Stitch draw amount 2.4mm
- Dial cam : Semi-closed cam (stitch/raising separate type)  
2-position (K, W) needle selection with S.S. actuators  
Stitch draw amount 2.0mm
- Cam timing : Synchronized timing
- Yarn feeding device : SFE (1 unit/F) 2 rings
- Yarn supplying device : Provision for side creel without creel
- Yarn carrier : Ring-mounting system with a corner hole
- Size ring : CADRATEX fabric spreader
- Oiling device : Projectile LF lubricator
- Auxiliary equipment : FMC-50 (memory: 16MW)  
Operation panel FCP-60 (built-in USB connector)  
Cooling fans for actuators

### OPTIONAL EXTRAS

- Large take-up on high legs (Max. fabric roll dia. 850mm or 1000mm)
- ACT-7 self-winding type method and Lapping system
- Parts for elastomeric yarn plating
- Yarn feeding device "LGL E-COMPACT" by LGL Electronics and "MPF P" by MEMMINGER-IRO
- Mattress ticking knitting parts
- 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
- FMA (Fukuhara Mobile monitoring Application)

### SPECIAL FEATURES

- **Multi-feeder electronic jacquard knitting machine with double needle selection mechanism**  
With 84 feeds in a 38 inch diameter, this model can be considered the ultimate multi-feeder electronic jacquard knitting machine with double needle selection capability. Production capability has been increased by roughly 17% compared to the conventional M-LEC6DSIB model. The level of difficulty can vary among Jacquard and mattress ticking fabrics depending on the knitting construction, pattern, and yarns in use and at times can require a high level of knitting technique. Use of the dial side needle selection function on the LEC7DSI(B), however, makes even high level fabrics easier to knit than on other general models.
- **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 and Lapping system 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 the see through effect and larger patterns.

### FABRIC POTENTIAL

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|--------------------------------|--|
| [ST]: Full jacquards           | 2-position structure patterns on cylinder, |
| [M-LEC7DSIB]                   | 2-position structure patterns on dial.     |
| Full jacquards                 | 3-position structure patterns on cylinder, |
| [M-LEC7DSI]                    | 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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