

# M SERIES

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**“FUKUHARA”**

**Computerized Double-Knit  
Bothside Needle Selection  
Jacquard Machine  
with 4-colour Auto-striper**

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## M-LEC4DFY4

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\*The photo may include optional items.

# FUKUHARA

## □ M-LEC4DFY4

M-LEC4DFY4 is an electronic jacquard machine with dual side (cylinder and dial) needle selection and 4-color auto striper functionality in combination with a full jacquard needle selection system with 3 positions on the cylinder plus 2 positions on the dial.

### STANDARD SPECIFICATION

● Diameters	: 34"      36"      38"
● No. of feeds	: 54F(1G)   56F(1G)   60F(1G)
● Gauges (n.p.i.)	: 12G to 28G
● Frame	: "M" type high speed single bed frame, quick cylinder/dial change facility
● Drive	: AC inverter with 5.5KW Motor
● Take-up	: ACT-7 Servo-motorized friction roll system (max. fabric roll dia. 580mm)
● Cylinder cam	: Semi-closed cams (stitch/raising separate type) 3-position needle selection by S.S. actuators (Knit, Tuck & Welt) Stitch amount 12G-15G=3.0mm 16G-28G=2.5mm
● Dial cam	: Semi-closed cam (stitch/raising separate type) 2-position needle selection by S.S. actuators (Knit & Welt) Stitch amount 12G-15G=2.5mm 16G-28G=2.0mm
● Cam timing	: Synchronized timing
● Striper	: "F-type" 4-colour auto-striper (1unit/F)
● Yarn feeding device	: YSJ4 yarn feeding device (1 units/F)
● Yarn supplying device	: Provision for side standing creel without creel
● Yarn carrier	: Slit type yarn carrier for striping machines
● Size ring	: CADRATEX spreader
● Oiling device	: Projectile 419F lubricator
● Auxiliary equipment	: FMC-50 (memory: 16MW) FCP-60 Operation panel (with color LCD touch panel & built-in USB slot) Cooling fans ( for the cylinder actuator )

### OPTIONAL EXTRAS

- Large take-up and high leg (max. fabric roll dia. 850mm, 1000mm)
- MEMMINGER-IRO Pulsonic oiler
- Auto-oiler
- Lint fans
- Top stop-motions
- Bottom stop-motions with slub catcher
- Cylinder/dial change tool
- "FDS" pattern preparation system
- Pattern transfer software by LAN (Knit server software)

### SPECIAL FEATURES

- **Needle selection on dial and cylinder**  
An "individual needle selection system" has been employed to ensure needles are precisely selected one by one. Original Fukuhara SS actuators are installed to ensure the 3-position (K-T-W) needle selection on the cylinder and 2-position needle selection on the dial (in addition to the support function via exchange cams) are carried out stably. Also, the dial needle selection system has adopted a needle-jack connecting system to securely regulate the needle movement during loop formation. Thus, the M-LEC4DFY4 is even able to knit fabric structures which seemed impossible on conventional double side needle selection electronic machines, thereby making it possible to produce more unique fabrics.
- **ACT-7 motor-driven automatic take-up unit**  
This model is installed with an ACT-7 servo motor driven automatic take-up unit which is lighter than previous take-ups and offers improved maintainability. A redesign of the frame structure has also made it easier to replace the take-up drive roll. In addition, three rubber coated rolls are installed together with a reel roll anti-reverse mechanism as standard equipment to further improve the performance and operability of the machine.
- **FMC-50 controller**  
The controller is a newly developed FMC-50 which supports high-speed operation and multi-feeders. The FMC-50 controller demonstrates stable needle selection performance as it is possible to transfer necessary data with accuracy and without fail to the knitting machine with multi-feeders rotating at a high speed.

### FABRIC POTENTIAL

- [ST] : Full jacquards, 3-position structure patterns on cylinder,  
2-position structure patterns on dial + 4-colour striping pattern  
[OP] : Mattress ticking fabrics

\* 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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