

# M SERIES

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**“FUKUHARA”**

**Computerized Double-Knit  
Bothside Needle Selection  
Jacquard Machine  
with 5-colour Auto-striper**

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**M-LEC4DSCFY5**

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\*The photo may include optional items.

**FUKUHARA**

## □ M-LEC4DSCFY5

M-LEC4DSCFY5 is a double needle selection model on which the auto-striper was changed from a four color setup like on the conventional M-LEC4DFY4 to a five color setup. Moreover, a stitch cancelling mechanism has been equipped to ensure needles which are selected to the welt position do not draw yarn while passing the stitch portion of the cams. This mechanism better stabilizes the knitting of multi-color striper patterns which use numerous feeder take-offs.

### STANDARD SPECIFICATION

- Diameters : 34" 36" 38"
- No. of feeds : 54F(1G) 56F(1G) 60F(1G)
- Gauges (n.p.i.) : 18G 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 cam system (stitch/raising separate type)  
Stitch amount : 18G to 28G : 2.0mm  
2 position selection via SS actuators  
With stitch cancelling mechanism for welt needle
- Dial cam : Semi-closed cam system (stitch/raising separate type)  
Stitch amount : 18G to 28G : 2.0mm  
2 position selection via SS actuators
- Cam timing : Synchronized timing
- Striper : "F-type" 5-colour auto-striper (1unit/F)
- Yarn feeding device : YSJ6 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 )

### FABRIC POTENTIAL

[ST] : Full jacquards, 2-position structure patterns on cylinder,  
2-position structure patterns on dial + 5-colour striping pattern

[OP] : Mattress ticking fabrics

### 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

- **Double side needle selection mechanism**  
An "individual needle selection system" is utilized to precisely select each individual needle.  
The high-performance SS actuators fitted at both the cylinder and dial ensure stable two-position (K-W) needle selection is possible at various speeds (slow to fast) on both the cylinder and dial of the machine.  
In addition, a needle-jack coupling method is used for the dial selection method in order to ensure needle movement is well regulated at the time of the loop formation. Knitting constructions which were difficult to knit on conventional electronic double needle selection models can now be made more easily, thereby increasing possibilities for new fabric developments.
- **Stitch cancelling mechanism (patent pending)**  
Normally Jacquard machines are fitted with only one stitch cam per knitting feeder and so all needles, regardless of their selected position (knit or welt), will draw slightly via the stitch cam when passing through the stitch area. Needles which are selected to welt are still holding an old loop which has yet to be cleared from the needle hook. There are cases in which this old loop will break when the welt needle draws slightly while passing the stitch area. This problem becomes even more prominent as the number of colors in the knitting construction increase. Also, all needles will draw slightly in the stitch area during the many take-off feeders in place when using multi-color stripers and yarn breaks can more easily occur. To remedy this a newly designed stitch cancelling mechanism is equipped on the cylinder side of the M-LEC4DSCFY5 to prevent needles selected to welt from slightly drawing in the feeder's stitch area. This mechanism thereby greatly reduces the risk of yarn breaks as a result of the slight draw in the stitch area.
- **5 color striper**  
Our proprietary F-type striper known for its high stability has been develop so far for three color, four color, and six color specifications. In response to a demand to knit with more colors than was possible on conventional LEC4D series models, a five color striper is newly setup on the machine to further expand the creative range of possible color patterns.

\* 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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