

M

SERIES

“FUKUHARA”

**Super-High Speed
Computerized Double-Knit
Jacquard Machine
for Mattress Ticking**

M-LEC7KSH



*The photo may include optional items.

FUKUHARA

□ M-LEC7KSH

The M-LEC7KSH is a super high-speed electronic Jacquard model specialized for mattress ticking. A more compact needle selection mechanism has been achieved while maintaining the same high volume production capability of the conventional M-LEC7BSH with a 900 speed factor over 84 feeds (38 inch diameter). The more compact design results in a cylinder height reduction of approximately 30% for more effortless daily operation. In addition, lowering the cylinder and changing to a mechanism that applies less spring pressure to the needles results in less friction in the cylinder needle selection area, meaning more energy savings can be expected during normal operation.

STANDARD SPECIFICATION

- Diameter : 38"
- No. of feed : 84F+1G
- Gauge (n.p.i.) : 18G - 20G
- 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. 800mm)
Take-up roll width: 1,531mm
- Cylinder cam : Semi-closed cam (stitch/raising separate type)
2-position (K, W) needle selection with S.S.
actuators
Stitch draw amount: 2.4mm
- Dial cam : 2-race exchange cams [ST]2-position(K,S)
Stitch draw amount: 2.2mm
- Cam timing : Synchronized timing
- Yarn feeding device : MPF20P1(1unit/2F) 1 ring 2tapes
LGL(1unit/F) 1 ring
- Yarn supplying device : Provision for side standing creel without creel
- Yarn carrier : Slit-in inlay yarn carriers
Corner hole type for the cylinder (K carrier)
Corner hole type for rib feed
Yarn carrier- ring system
- Size Ring : CADRATEx fabric spreader
- Oiling device : Projectile 419(F) lubricator
- Auxiliary equipment : FMC-50 (memory: 16MW)
Operation panel (with color LCD touch panel
& built-in USB connector)
Cooling fans (for the cylinder actuators)

OPTIONAL EXTRAS

- Tuck gate cam
- Movable air mixing nozzle
- Additional dial cams (T, W)
- MEMMINGER-IRO Pulsonic oiler
- Auto-oiler
- Lint fans
- Flutter blower
- "FDS" pattern preparation system
- Fabric cutter
- Change gear (G-2507AK/BH)

FABRIC POTENTIAL

[ST]: Mattress ticking

SPECIAL FEATURES

- **Super High-speed Mattress Ticking Jacquard Machine**
A super high speed of 900 speed factor is possible and provides an overwhelming amount of production for an electronic Jacquard model. Production can increase by as much as 36% compared to the conventional V-LEC7BS model. The level of knitting difficulty for mattress fabrics can differ depending on the fabric construction, patterns, and yarns used and there are cases which require a high level of knitting technology. In order to knit such fabrics stably, the LEC7KSH is fitted with parts such as cams, yarn carriers, and yarn feeding devices which have been designed based on the latest knitting theories and therefore specialized for mattress ticking.
- **Newly Designed Needle Selection Mechanism**
A new needle selection mechanism designed utilizing Fukuhara's trusted SS actuation system, which always provides stable needle selection even at high speeds, results in a cylinder height approximately 30% lower compared to conventional LEC7 models. The lower cylinder height not only lowers the height of the knitting head to make daily operations such as pressing on fabrics more effortless, it also reduces the contact area throughout the entire needle selection mechanism, thereby reducing frictional resistance during machine operation. In addition, a new jack design reduces the amount of pressure applied to the cylinder needles, resulting in less frictional resistance as the needles move vertically. The interactions of these new designs result in lower power consumption during operation compared to conventional LEC7 models.

• FMC-50 controller

The controller is a newly developed FMC-50 which supports super-high speeds. FMC-50 controller demonstrates a stable needle selection performance as it is possible to transfer necessary data with accuracy and without fail to the knitting machine rotating at a super-high speed.

• High-leg Specification

A high-leg take-up capable of accommodating a large roll diameter of 800mm is fitted as the standard specification. With a servo motor-driven large take-up (ACT-7) mounted, it is possible to take up even thick fabrics such as those for mattress ticking in long lengths.

* 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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