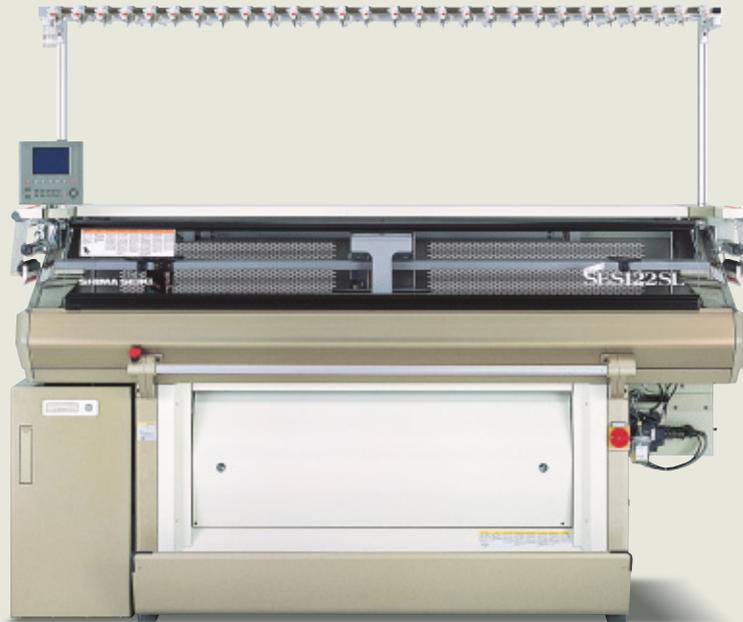


# New SES122SL

Computerized Flat Knitting Machine with Full-Sinker System



## EVEN MORE VERSATILITY WITH MIDDLE- AND COARSE-GAUGE KNITTING.

Shima Seiki's compact, space-saving NewSES122SL features our original spring-type movable full sinker system. This ideal system provides gentle holddown movement, resulting in greater potential for the exploration of new designs, and significant improvement in quality especially for complex three-dimensional fabrics. With special 7-gauge large-hook needles this new S-type machine offers even greater production possibilities, from middle gauge fabrics using all-needle knitting to coarse gauge production using half-gauge knitting. This versatility is further enhanced with proven production quality achieved by such features as a smooth and reliable takedown system which provides even takedown and consistent, snag-free fabric release. Our patented Digital Stitch Control Sys-

tem (DSCS<sup>®</sup>) also yields yarn-feed consistency to within a remarkable  $\pm 1\%$  tolerance and provides the control necessary for quality shaping and integral knitting as well as maintaining consistency among different batches and repeat orders. Most of all the NewSES122SL is a Shima Seiki NewSES machine, the same best-selling series that has sold over 40,000 units worldwide and is considered the de facto standard of the flat knitting industry. With this reputation comes cutting-edge Shima Seiki knitting technology, not to mention our unmatched manufacturing quality and service support. With its combined functionality and versatile productivity, Shima Seiki's NewSES122SL is sure to add an extra new dimension to any knitting operation..



Knitting Width



Knitran<sup>®</sup> Systems



Ultra-Lightweight Carriage



Belt-Drive Operation



Tough Needle Bed



Gauge Range



Solenoid Needle Selection



Stitch Presser



Full-Time Sinker



Yam Gripper/Cutter



Digital Knitting



Setup Device



Takedown Rollers



Dust Cleaner



Schedule Knit



Back-Lit LCD Panel



NetWork Interface



Pattern Memory



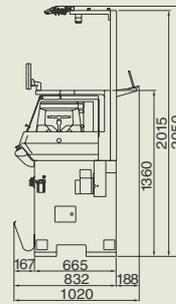
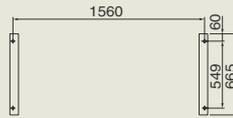
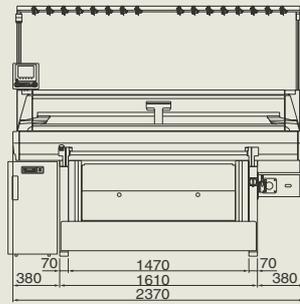
USB Memory Interface



Back-up Power

**SHIMA SEIKI**

## DIMENSIONS



### Average Weight

NewSES122SL 1,060kg (2,332 lb.)

Actual weight is dependent upon gauge and optional equipment.

All dimensions are in millimeters.

## SPECIFICATIONS

Type	NewSES122SL
Knitting width	Variable stroke. Max 48" (122cm)
Gauge	7
Knitting speed	Max 1.2m/sec. Knitting speed varies according to gauge and knitting condition. Variably adjustable speed levels. 10 additional programmable speeds.
Stitch density	60 levels, electronically controlled.
Racking	Motor-driven racking mechanism. Max 2-inch racking. 1/2 and 1/4 pitch also available from any position.
Knitting system	Double KNITRAN® system. Single carriage.
Transfer	Simultaneous transfer, front or back, independent of carriage direction. Split stitch.
Stitch presser	Special motor-driven system allows individual adjustment for on/off in knit and transfer.
Sinker system	Spring-type moveable full-sinker system.
Needle selection	Full jacquard selection via special solenoid actuators.
Setup device	Takedown comb with special setup needles.
Takedown device	Main/sub rollers. Changeable 31 levels, automatically adjustable on each level. Automatic opening and closing.
Yarn cutter	Single-unit system includes 1 yarn cutter and 2 yarn grippers. Left side only. <sup>1</sup>
DSCS®	Consistent loop length by digital control method. Left side standard. Left side yarn feed roller standard. <sup>2</sup> Yarn feed: 8 positions.
Side tension	8 on each side <sup>3</sup>
Yarn carriers <sup>4</sup>	9 carriers
Top tensions	16 tension devices. <sup>3</sup> One-touch easy threading. Large knots cause machine stop. Small knots cause 0-9 courses at specified knot detection speed, then automatically resume at set speed.
Stop motion	Yarn break, large knot, wraparound check, shock detection, piece count, over-torque, program error, etc.
Drive system	Belt drive. AC servo motor. No lubrication necessary.
Cleaner	Special blower operated cleaner.
Safety devices <sup>5</sup>	Full safety cover for noise-suppression and dust-proofing with stop motion sensor and interlock mechanism. Stop button. Power supply disconnecting device. Ultra-low speed "crawl" setting. Indicator lamps (see below).
Operation lamp	Green/normal operation. Flashing green/normal stop. Flashing amber/abnormal stop.

## CONTROLLER

Data input	3.5" floppy disk. USB memory interface. 10/100BASE-T network.
Pattern memory	12,582,912 bits (1,024 wales × 4,096 addresses)
Control system	Stored program for flat knitting machine.
Control display	Monochrome LCD panel. Editing possible via display panel operation. Available in English, French, Italian, Spanish, Portuguese, German, Turkish, Chinese, Korean and Japanese.
Back-up power	Power supply for resuming knitting after power failure
Power	3 phase AC200V ± 10% 2.0KVA

**OPTIONS :** (1) Right side yarn cutter. (2) Right side yarn feed roller. (3) Additional tension devices (for a total of 24 top tensions and 12 side tensions on each side). (4) Intarsia device. (5) CE Mark.



## SAFETY NOTICE

In order to ensure safe operation of the equipment, please review all operation manuals carefully before use.

Shimatronic, Knitran and DSCS are registered trademarks of Shima Seiki Mfg., Ltd.  
Shima Seiki maintains a policy of continuous improvement for its products, and therefore specifications and appearances are subject to change without notice.  
Please contact your nearest authorized sales representative for the latest information.



# SHIMA SEIKI

**SHIMA SEIKI MFG., LTD.**  
85 Sakata Wakayama Japan  
TEL+81-73-474-8210 FAX+81-73-474-8270

**SHIMA SEIKI EUROPE, LTD.**  
Sills Road, Willow Farm Business Park,  
Castle Donnington, Derbyshire DE74 2US U.K.  
TEL 01332-814770 FAX 01332-850272

**SHIMA SEIKI U.S.A., INC.**  
22 Abeel Road Monroe Twp., New Jersey 08831, U.S.A.  
TEL 609-655-4788 FAX 609-655-8463

**SHIMA SEIKI MFG., LTD., TAIPEI BRANCH**  
1F, 30, Lane 583, Ruey Kuang Rd., Neihu, Taipei 114, TAIWAN R.O.C.  
TEL 886-2-8752-3388 FAX 886-2-8797-5522

URL <http://www.shimaseiki.co.jp> Email [info@shimaseiki.co.jp](mailto:info@shimaseiki.co.jp)