

New SESI22Fi/123Fi

Computerized Flat Knitting Machine with Ultrafine Gauge Capability



THE ULTIMATE IN ULTRAFINE GAUGE INTARSIA KNITTING.

Our NewSESI22Fi double-system and NewSESI23Fi triple-system machines combine the ultrafine gauge knitting capability of our NewSES FF-type machines with greatly improved intarsia capability. The compact, space-saving Fi machines continue the Shima Seiki tradition of providing the latest in computerized knitting technology, with such features as a compact and ultra-lightweight belt-driven carriage and a single-unit cutting system consisting of two yarn grippers and a cutter. Both models are capable of a full range of production, including shaping and integral garment production in a variety of patterns. Both machines also feature ultrafine gauge knitting in 18 gauge, providing new opportunities for soft, lightweight products which expand knitwear's potential as an all-season garment. Being part of the revamped NewSES line, the NewSESI22Fi and NewSESI23Fi feature increased memory capacity, Ethernet connectivity, a user-friendly control panel with improved interface, easier maintenance, and a back-up power supply for resuming work even after power failure.

Improved Intarsia Knitting

The NewSESI22Fi and NewSESI23Fi are available with greatly improved intarsia knitting capability, with capacity for up to 30 intarsia carriers. The new intarsia carriers are more compact, fitting more carriers and thus allowing more color changes within a given knitting width. The improved intarsia system is also much quieter, averaging two-thirds (2/3) less noise than our previous intarsia system.



Knitting Width



Knitran® Systems



Ultra-Lightweight Carriage



Belt-Drive Operation



Tough Needle Bed



Gauge Range



Solenoid Needle Selection



Stitch Presser



Yarn Gripper/Cutter



DSCS® Digital Knitting



Setup Device



Takedown-Rollers



Dust Cleaner



Schedule Knit



Back-Lit LCD Panel



NetWork Interface



Pattern Memory



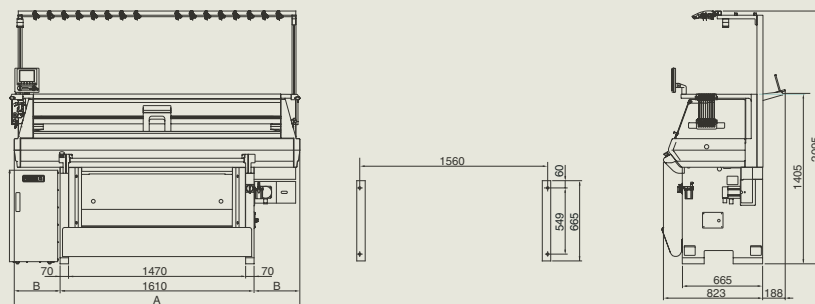
USB Memory Interface



Back-up Power

SHIMA SEIKI

DIMENSIONS



Average Weight

NewSES122FI 1,060kg (2,332 lb.)

NewSES123FI 1,100kg (2,420 lb.)

Actual weight is dependent upon gauge and optional equipment.

	A	B
NewSES122FI	2,370	380
NewSES123FI	2,720	555

All dimensions are in millimeters.

SPECIFICATIONS

Type	NewSES122FI	NewSES123FI
Knitting width	Variable stroke. Max 48" (122cm)	
Gauge	18	
Knitting speed	Max 1.2m/sec. Knitting speed varies according to gauge and knitting condition. Variably adjustable speed levels. Additional programmable speeds.	
Stitch density	60 levels, electronically controlled.	
Racking	Motor-driven racking mechanism. Max 1-inch racking in each direction (2 inches total).	
Knitting system	Double KNITRAN [®] system. Single carriage.	Triple 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.	
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 ¹	
DSCS [®]	Consistent loop length by digital control method. Left side standard. Left side yarn feed roller standard ² . Yarn feed: 8 positions.	
Side tension ³	8 on each side	12 on each side
Yarn carriers ⁴	9 carriers	12 carriers
Top tensions ³	16 tension devices	24 tension devices
Stop motion	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.	
Drive system	Yarn break, large knot, wraparound check, shock detection, piece count, over-torque, program error, etc.	
Cleaner	Belt drive. AC servo motor. No lubrication necessary.	
Safety devices ⁵	Special blower operated cleaner.	
Operation lamp	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).	
	Green/normal operation. Flashing green/normal stop. Flashing amber/abnormal stop.	

CONTROLLER

Data input	3.5" FD. USB memory interface. 10/100 BASE-T network.	
Pattern memory	12,582,912 bits (1,024 wales x 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	2.2KVA

OPTIONS: (1) Right side yarn cutter. (2) Right side yarn feed roller. (3) Additional tension devices. (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.

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.



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