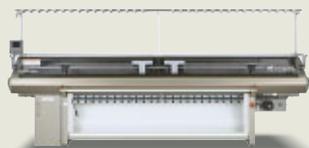
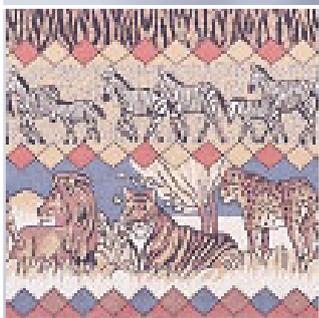


New SES236FF/236-S



Computerized Flat Knitting Machine with Six-System Tandem Capability



SHIMA SEIKI

New SES236FF/236-S

A PAIR OF VERSATILE SIX-SYSTEM MACHINES FOR HIGH PRODUCTIVITY.

The NewSES236FF and NewSES236-S are versatile, high-speed machines featuring six knitting systems for very high productivity. Both feature a 90-inch (229-centimeter) knitting width and tandem operation as a twin triple-system machine. High-speed productivity of the NewSES236FF, in particular, approaches that of circular machines. The NewSES236FF also boasts the capability to perform ultrafine gauge (E16~18) flatbed knitting, allowing lightweight garments with multi-colored patterns. The full sinker system featured on the NewSES236-S further offers impressive pattern variations as well. High production quality and consistency can be assured on both NewSES236 models with the optional DSCS[®] Digital Stitch Control System. Finally, with newly revamped NewSES features, both models provide increased memory capacity, a user-friendly control panel with improved interface, and even higher productivity.



Knitting
Width



Knitran[®]
Systems



Ultra-
Lightweight
Carriage



Tandem
Operation



Belt-Drive
Operation



Tough
Needle Bed



Gauge Range



Gauge
Conversion



Solenoid
Needle
Selection



Stitch
Presser

All-new controller and LCD monitor

The NewSES236FF and NewSES236-S machines feature a brand-new computer-control unit with a significant increase in memory capacity. The NewSES controller boasts 50% more capacity as compared with the previous SES line, at 12,582,912 bits or 1,024 wales \times 4,096 addresses.

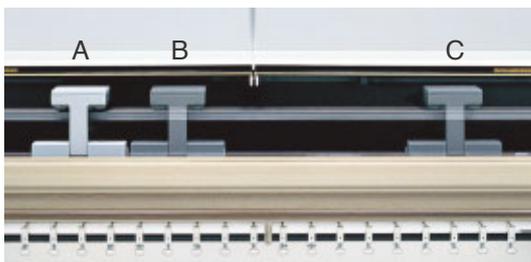
In addition to floppy disks, the new controller can accept USB memory input, further increasing data capacity for knitting complex knits. Also standard is a network interface which opens up new possibilities in filesharing and production management using Shima Network Solutions. A backup power supply is also

standard, allowing work to resume after power failures. The new control panel features a simple monochromatic LCD monitor with an improved graphic interface for intuitive operation. The eye-level display offers improved ergonomics, while menu-interactive function buttons offer easy input and editing. The menu also features multi-lingual capability, available in 10 languages.



Tandem capability for 6-system or 2 \times 3-system operation

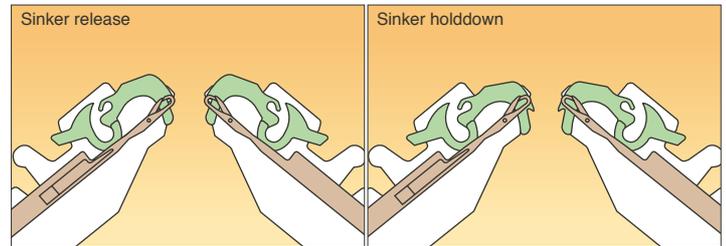
Our six-system machines incorporate twin carriages, each with a triple-system setup featuring two Knitran[®] systems and an extra knitting system. While both carriages can be used together along the entire width of the needle bed for knitting wide panels in six-system mode, the carriages can be separated into two triple systems for knitting two identical pieces simultaneously. Tandem operation capability thereby allows the machine to perform two separate roles, significantly increasing the versatility and flexibility of the machine.



A&B: 6-system use A&C: 2x3-system tandem use

The Shima Seiki spring-type moveable full sinker system

The NewSES236-S features our original spring-type moveable full sinker system, based directly on the proven sinker configuration found in our glove knitting machines. Unlike conventional forced-operation type sinkers, the spring-type mechanism provides gentle holddown movement which prevents the fabric from being subject to undue force. Consequently, significant improvements in quality and texture for complicated structure patterns and dimensional fabrics are achieved. And with the combined use of our stitch presser, pattern variety previously unimaginable with conventional sinkers can now be had with ease.



The world's first digital stitch device (optional)

Both the NewSES236FF and NewSES236-S can be optionally equipped with Shima Seiki's proven Digital Stitch Control System (DSCS[®]). Considered one of the most significant breakthroughs in flatbed knitting technology, our patented DSCS[®] continuously adjusts yarn feed and tension to yield loop consistency with tolerance to within a remarkable $\pm 1\%$. The result is quality control capability that is virtually impossible with conventional analog systems. In addition to being an essential element in quality-controlled shaping and integral garment production, DSCS[®] allows consistency among different batches and repeat orders as well.



236-S

option



Full-Time Sinker



Digital Knitting



Takedown Rollers



Dust Cleaner



Schedule Knit



Back-Lit LCD Panel



Network Interface



Pattern Memory

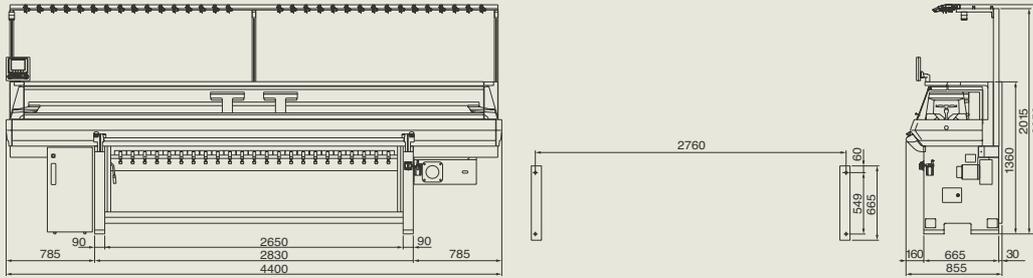


USB Memory Interface



Back-up Power

DIMENSIONS



Average Weight

NewSES236FF 1,750kg (3,850 lb.)

NewSES236-S 1,770kg (3,894 lb.)

Actual weight is dependent upon gauge and optional equipment.

All dimensions are in millimeters.

SPECIFICATIONS

* By special order only.

Type	NewSES236FF	NewSES236-S
Knitting width	Variable stroke. Max 90" (229cm)	
Tandem width	40" (102cm) × 2	
Gauge	7* · 8* · 10* · 12* · 14 · 16 · 18	6 · 7 · 8 · 10 · 12 · 14 · 16
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. 6 ~ 14G : Max 2 - inch racking. 1/2 and 1/4 pitch also available from any position. 16 & 18G : Max 2 - inch racking. 1/2 pitch also available from any position.	
Knitting system	Double KNITRAN® + single knitting system. Twin carriage.	
Transfer	Simultaneous transfer (KNITRAN® system only), 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.	
Takedown device	Main roller : Changeable 31 levels, automatically adjustable on each level. Sub roller : Changeable 31 levels, automatically adjustable on each level. Automatic opening and closing.	
DSCS®	Option. ¹ Consistent loop length by digital control method. Left side. Left side yarn feed roller. ² Yarn feed : 8 positions.	
Side tension	16 on each side	
Yarn carriers	16 carriers	
Top tensions	32 tension devices 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 ³	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. 10/100 BASE-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%	3.5KVA
	3.0KVA	

OPTION : (1) DSCS®. (2) Right side yarn feed roller. (3) CE Mark.



SAFETY NOTICE

In order to ensure safe operation of the equipment, please read 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.



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