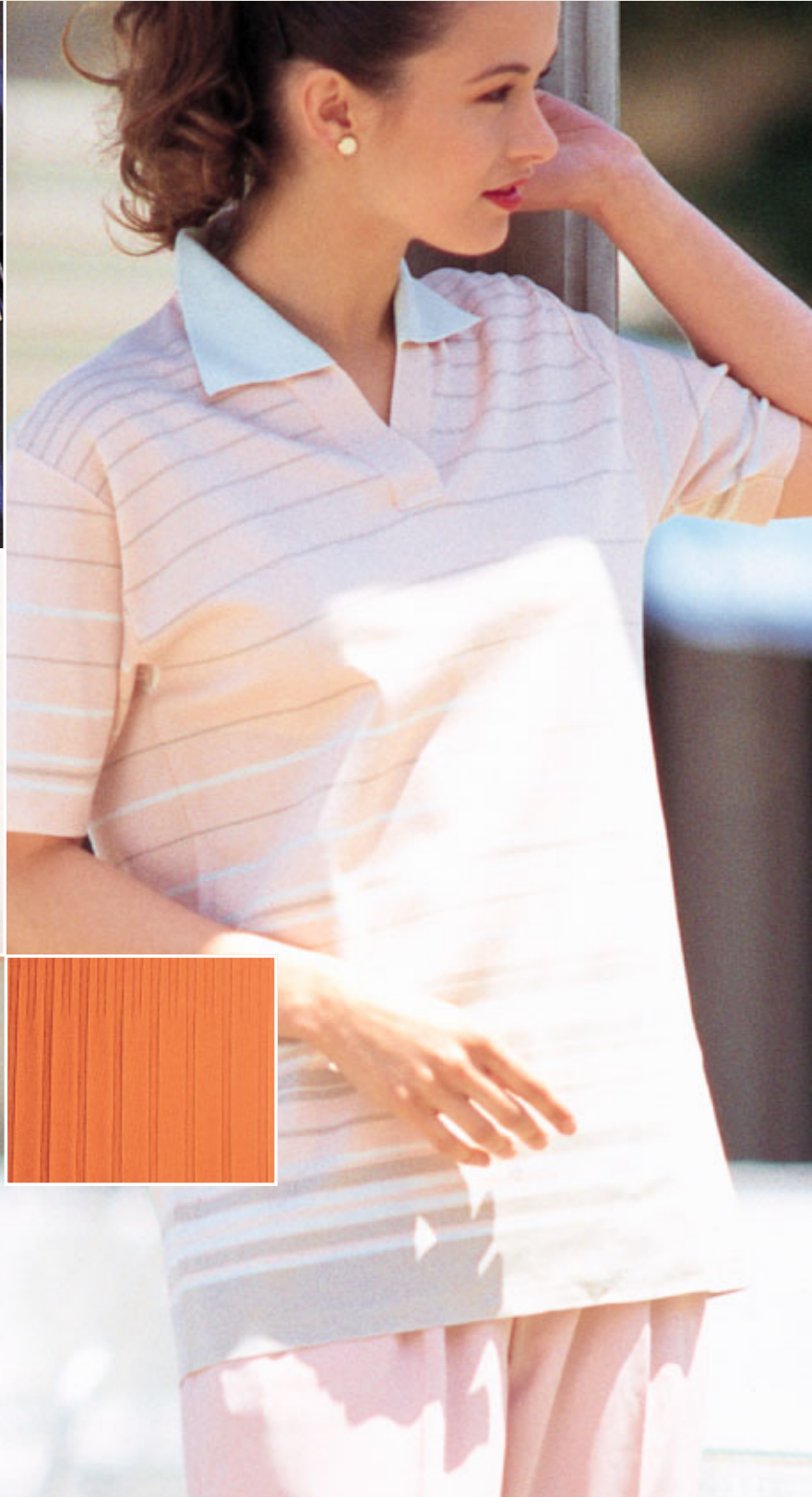


SFF131-S/152-T/153-S



Semi-Jacquard Type Flat Knitting Machine



SHIMA SEIKI

SFF131-S/152-T/153-S

FLEXIBLE PRODUCTIVITY FROM A FULL RANGE OF ECONOMICAL MACHINES

The SFF-series offers an economical line-up of specialty machines based directly on technology derived from our proven SES-series. These compact and space-saving single rahben machines specialize in such applications as plain, rib and tubular knits in panels as well as accessory parts such as collars, plackets and pockets. The SFF131-S features the lightest, most compact carriage in computerized flat knitting applications, while the SFF152-T features a twin-carriage configuration complete with transfer capability. The SFF153-S features a triple-system carriage capable of full Milano rib knitting as well. Each of the SFF-series machines is a cost-effective solution for supplementing production with specialty items.

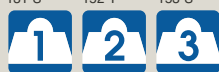


131-S 152-T;153-S



Knitting Width

131-S 152-T 153-S



Knitting Systems



Ultra-Lightweight Carriage

152-T



Tandem Operation



Belt-Drive Operation



Tough Needle Bed

131-S 152-T 153-S



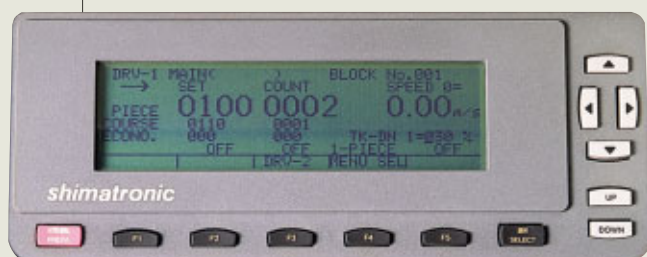
Gauge Range



Dust Cleaner

An easy-to-read user-friendly LCD controller

Shima Seiki R&D philosophy centers around optimum interface between user and machine. All software control of the SFF-series is performed via an easy-to-read interactive liquid crystal display unit, while each surrounding button switches between multiple functions for user-friendly interface. The latest in computerized knitting functions are right at your fingertips.



Improved quality control with the top tension device

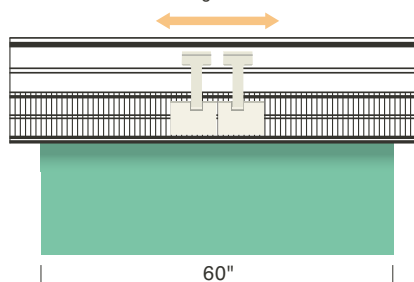
The top tension device employs a convenient one-touch threading system for quick and easy set-ups. When knots are detected during knitting, the top tension automatically adjusts machine operation according to the situation. The machine stops for large knots, while small knots cause the machine to simply slow down to a preset speed adjustable by 10 levels. The top tension device thus serves as an effective quality control sensor.



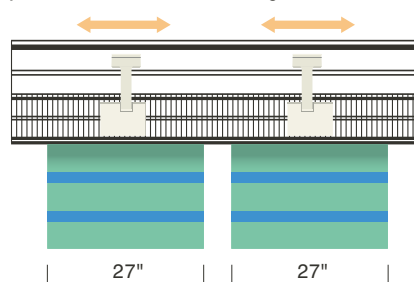
Tandem capability for 2-system or 2x1-system operation

The SFF152-T features twin carriages, each with a single-system cam setup. While both carriages can be used together along the entire width of the needle bed for knitting wide panels in double-system mode, the carriages can be separated into two single 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.

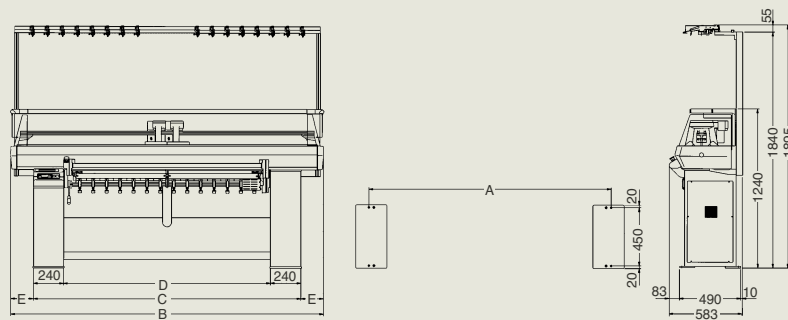
2-system use for blanket knitting



2x1-system tandem use for collar knitting



DIMENSIONS



Average Weight

SFF131-S	460kg (1,012 lb.)
SFF152-T	550kg (1,210 lb.)
SFF153-S	560kg (1,232 lb.)

Actual weight is dependent upon gauge and optional equipment.

	A	B	C	D	E
SFF131-S	1,730	1,980	1,930	1,450	25
SFF152-T					
SFF153-S	1,930	2,495	2,130	1,650	182.5

All dimensions are in millimeters.

SPECIFICATIONS

Model	SFF131-S	SFF152-T	SFF153-S
Knitting width	Variable stroke. Max 52"(132cm).	Variable stroke. Max 60"(152cm).	Variable stroke. Max 60"(152cm).
Tandem width	N/A	27"(69cm) x 2	N/A
Gauge	12 * 14 * 16*	7 · 8 · 10 · 12 · 14 · 16 · 18	12 * 14 * 16 * 18 * 20 * 22*
Knitting speed	Max 1.2m/sec. Knitting speed varies according to gauge and knitting condition. Variably adjustable speed levels. 3 additional programmable speeds.		
Stitch density	15 levels, electronically controlled.		
Racking	Motor-driven racking mechanism. 1/2 pitch to the left and 1 pitch to the right. (SFF153-S 18-22G: 1 pitch in both directions)		
Yarn carriers	4 colors changeable on each side.		
Knitting system	Single cam system	Single cam system, twin carriage.	Single cam system + double knitting system.
Transfer	N/A	Back-to-front transfer to the right, front-to-back to the left	N/A
Fabric takedown	Changeable 3 levels, automatically adjustable on each level.		
Side roller	Changeable 3 levels, automatically adjustable on each level.		
Stop motion	Yarn break, large knot, needle break, shock detection, wraparound check, over-torque, piece count, program error etc.		
Drive system	Belt-drive. AC servo motor. No lubrication necessary.		
Top tensions	One-touch easy threading. Large knots cause machine stop. Small knots cause 0-9 courses at low speed.		
Cleaner	Dust cleaner is blower operated.		
Safety devices	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. Amber/abnormal stop.		

CONTROLLER

Data input	3.5" floppy disk		
Control system	Stored program for flat knitting machine.		
Operation	Liquid crystal display		
Power	3 phase AC 200/220V		
	1.0KVA	1.2KVA	1.2KVA

OPTION: Take-up device for two pieces (SFF131-S only).

* By special order only.



SAFETY NOTICE

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

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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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