







THE ORIGINAL WHOLEGARMENT[®] MACHINE KEEPS GETTING BETTER.

WHOLEGARMENT[®] is gathering more and more attention around the world as the future direction of knitwear. Whereas with conventional knitting methods individual body pieces must be knit separately and sewn together afterwards, WHOLEGARMENT[®] knitting technology provides the means to knit an entire sweater which can be worn straight off the machine with no linking or sewing*. Shima Seiki's SWG[®]-V, the world's first commercial application of WHOLEGARMENT[®] knitting technology, has been in the midst of this garment revolution from the very beginning. Now, with our NewSWG[®]-V machine, we have carried over the proven productivity of the SWG[®]-V and enhanced its capabilities with new technology such as the yarn carrier kickback device (optional), increased memory for knitting larger, more complex items and improved ergonomics with the new LCD monitor-controller. With improved functionality and increased performance, the NewSWG®-V realizes the future of knitting, today.









Systems



Lightweight

Carriage









Knitting





Configuration



Needle

Selection





and Cutter

Full-Time

Sinker





Kickback Device



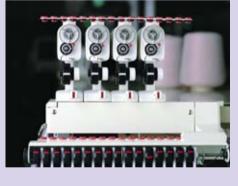
Twin Needle Configuration

The NewSWG[®]V features WHOLEGARMENT[®] capability using conventional latch needles in a V-bed formation. What distinguishes the NewSWG[®]-V from other V-bed machines however, is that the needles are mounted in pairs. This "Twin-Needle" configuration effectively mimics the SWG[®]X's 4-bed setup while using only 2 needlebeds, permitting the complex transfers necessary to create quality WHOLEGARMENT® products.



i-DSCS (optional)

Available with the NewSWG[®]V is the i-DSCS[®] Digital Stitch Control System with Intelligence. It carries over the benefits of DSCS[®], with even better performance. Whereas DSCS[®] is a passive system which controls stitch length and yarn tension by limiting yarn-feed, i-DSCS[®] has the capability to actively control varn-feed in both feed and retrieval directions as necessary, resulting in even higher quality and greater productivity using a wider variety of varns. Like its predecessor, i-DSCS® provides consistent quality among different production batches and repeat orders, and is crucial to the precision knitting required in WHOLEGARMENT® production.



Yarn Carrier Kickback Device (optional)

When knitting integral garments and intarsia on conventional V-bed systems, the varn carrier is positioned by carriage movement. After knitting the integral or intarsia portion for each course, the carriage must spend a dedicated course specifically for moving the yarn carrier out of the way in order to knit the next course, resulting in wasted "empty courses." In sharp contrast, the NewSWG[®]-V's optional yarn carrier kickback device features a motor-driven active carrier system whereby the carrier lifts itself up and over to make way for the carriage's next knitting course, eliminating the need for any extra empty courses and significantly improving productivity.



All-New Controller and LCD Monitor

The NewSWG[®]V features a new computer-control unit and LCD monitor. The controller is equipped with a new USB memory interface for supporting complex WHOLEGARMENT[®] items that require large amounts of data. 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 evelevel display offers improved ergonomics, while menu-interactive function buttons offer easy input and editing. The multi-lingual menu is available in 9 languages, including English, Italian, French, German, Spanish, Portuguese, Turkish, Chinese and Japanese.









Takedowi

Rollere





I CD Panel



Memory

Network

Interface



Interface

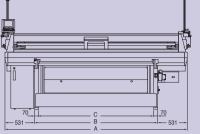


Back-up

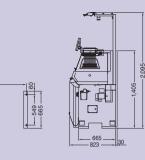
DIMENSIONS

SPECIFICATIONS

Type



SWG[®]183-V



SMC₈503-V*

Average Weight

NewSWG183-V	1,347kg (2,963 lbs)	
NewSWG203-V	1,462kg (3,216 lbs)	
Actual weight is dependent upon gauge and optional equipment		

	А	В	С	D
NewSWG183-V	3,272	2,210	2,070	2,160
NewSWG203-V	3,482	2,420	2,280	2,370
All dimensions are in	millimeters.			

Fully Fashioned High-Speed Knitting Machine

yourchoice SHIMA SEIKI

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Gauge Special 5 (needle pairs equivalent to 4G pitch) - Special 7 (needle pairs equivalent to 6G pitch) Knitting width Variable stroke. Max 72" (183cm) Variable stroke. Max 80" (203cm) Knitting speed Max 1.3m/sec. Knitting speed varies according to gauge and knitting condition. Variably adjustable speed levels. 16 additional programmable speeds. Stitch density 70 levels, electronically controlled.			
Knitting speed Max 1.3m/sec. Knitting speed varies according to gauge and knitting condition. Variably adjustable speed levels. 16 additional programmable speeds.			
Stitch density 70 levels, electronically controlled.	_		
Second stitch Motor-controlled second stitch cam allows individual adjustment of loose/tight stitches for shaping.			
Racking Motor-driven. Max 1.5-inch racking in each direction (3 inches total).	Motor-driven. Max 1.5-inch racking in each direction (3 inches total).		
Knitting system Triple KNITRAN [®] system. Single carriage.	Triple KNITRAN [®] system. Single carriage.		
Transfer Simultaneous transfer, front and back, independent of carriage direction. Split stitch.	Simultaneous transfer, front and back, independent of carriage direction. Split stitch.		
Sinker system Spring-type moveable full sinker system.	Spring-type moveable full sinker system.		
Stitch presser Special motor-driven system allows individual adjustment for on / off in knit and transfer.	Special motor-driven system allows individual adjustment for on / off in knit and transfer.		
Needle selection Full jacquard selection via special solenoid actuators.	Full jacquard selection via special solenoid actuators.		
Setup device Takedown comb with special setup needles.	Takedown comb with special setup needles.		
Takedown device Main/sub rollers. Changeable 99 levels, automatically adjustable on each level. Automatic opening and closing.	Main/sub rollers. Changeable 99 levels, automatically adjustable on each level. Automatic opening and closing.		
Yarn cutter Single-unit system includes 1 yarn cutter and 2 yarn grippers. Both sides standard.	Single-unit system includes 1 yarn cutter and 2 yarn grippers. Both sides standard.		
Air Splicer Instant color changes using pressurized air. 8 colors per unit .Optional (7G only) ¹ .	Instant color changes using pressurized air. 8 colors per unit .Optional (7G only) ¹ .		
DSCS [®] Consistent loop length by digital control method. Left side standard ² . Yarn feed rollers on both sides standard ^{3.4.5} . Yarn feed: 10 positions on each side.	Consistent loop length by digital control method. Left side standard ² . Yarn feed rollers on both sides standard ^{3.4.5} . Yarn feed: 10 positions on each side.		
i-DSCS® with Intelligence. Actively controls yarn feed in both feed and retrieval directions. Both sides standard. Yarn feed roller on both sides standard. 16 positions. Optional ⁶ .			
Side tensions 12 on each side	side tensions 12 on each side		
Yam carriers ⁷ 13 carriers	iers ⁷ 13 carriers		
Yarn carrier kickback device using servo belt drive. Eliminates the need for empty courses. 2 tracks on each side (4 tracks total) as basic configuration. Optional ⁸⁹ .	kback Kickback device using servo belt drive. Eliminates the need for empty courses. 2 tracks on each side (4 tracks total) as basic configuration. Optional ⁸⁹ .		
Top tensions 24 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.	n 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 ¹⁰ 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	USB memory interface. USB 3.5" MO disk interface. Ethernet 10 / 100 BASE - T network interface.
Pattern memory	25165,824 bits (1,024 wales × 8,192 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 and Japanese.
Back-up power	Power supply for resuming knitting after power failure.
Power	3 phase AC200V±10% 2.2KVA

OPTION : (1) Air Splicer. (2) Right side DSCS[®]. (3) Left side yarn feed double roller. (4) Left side yarn stopper device. (5) Right side yarn stopper device. (6) i-DSCS[®]. (7) Intarsia option. (8) Yarn carrier kickback device. (9) Additional yarn carrier kickback device (2 additional tracks on each side for 8 tracks total). (10) CE Mark.