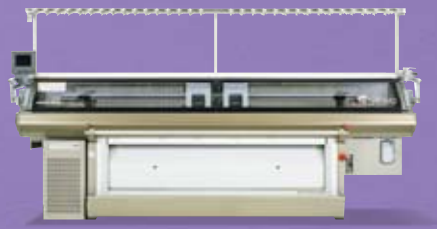
your choice
SHIMA SEIKI

New
SES-C·WG

Computerized Flat Knitting Machine with WHOLEGARMENT® Capability



VERSATILITY COMBINED WITH COARSE GAUGE WHOLEGARMENT® CAPABILITY.

Shima Seiki's NewSES®-C·WG is an extremely flexible machine which realizes quality knitting in a range of production styles. Like other NewSES®-series machines, the NewSES®-C·WG is capable of shaping and integral knitting. What makes this machine unique, however, is its capability to knit coarse gauge WHOLEGARMENT® knitwear. Using special compound needles like those found on our NewSES®-CS type machines, as well as a flagship FIRST®-inspired fabric takedown system featuring our own Pulldown Device, the NewSES®-C·WG is capable of high-quality coarse gauge WHOLEGARMENT® production which fits the body perfectly in three dimensions. Other features include Shima Seiki's exclusive Yarn Carrier Kickback Device (optional) for efficient production of intarsia and integral knits, as well as Second Stitch for high-quality production through the use of loose/tight stitches. The great versatility of the NewSES®-C·WG makes it the perfect choice for adopting WHOLEGARMENT® production methods in coarse gauge applications, while maintaining flexible support of varying market demand.

New SES-C·WG

Computerized Flat Knitting Machine with WHOLEGARMENT® Capability

80" Knitting Width

Ultra-Lightweight Carriage

Tandem Operation

Belt-Drive Operation

Tough Needle Bed

5G Gauge Range

Gaugeless Knitting

WHOLEGARMENT® Knitting

Solenoid Needle Selection

Compound Needles

Stitch Presser

Full-Time Sinker

Yarn Gripper and Cutter

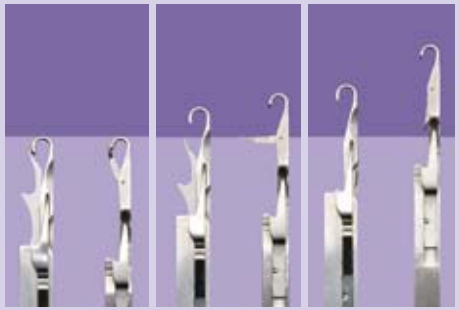
Double Racking

±1% DSCS®

Entry-Level WHOLEGARMENT®

Our NewSES®-C·WG machine features the capability to perform everything from panel knitting, shaping and integral knitting, to WHOLEGARMENT® production. With WHOLEGARMENT,® an entire garment can be produced on the knitting machine without any linking or sewing*. Aside from the cost-savings associated with eliminating post-knit processes, WHOLEGARMENT® reduces production time and offers on-demand support of new and repeat orders, consistent quality control and elimination of cut-loss and other material waste. WHOLEGARMENT® products appeal to consumers because of their soft, lightweight comfort and fit brought about by the elimination of annoying seams. These characteristics have convinced many experts of the knitting industry that WHOLEGARMENT® will indeed become the mainstream knitting method of the 21st Century, especially in major consumer markets worldwide. The NewSES®-C·WG offers entry-level WHOLEGARMENT® production in preparation for this upcoming trend.

* Some designs may require partial stitching.



Special Compound Needles

The NewSES®-C·WG employs compound needles designed especially for coarse gauge applications. Compared with conventional latch-type needles, the special compound design offers higher operational stability which is required for larger needle sizes. Subsequently, our coarse gauge machines offer optimum uniform quality of finished items. Moreover, compound needles offer significant reductions in needle stroke to allow for similar reductions in needle bed and carriage size, further improving productivity and efficiency.

Pulldown Device

The NewSES®-C·WG's new computer-controlled takedown system consists of front and rear panels over which tiny pins are distributed for separately controlling takedown tension for the front and back when knitting WHOLEGARMENT.® In addition, each panel is separated into 1.5-inch sections which can be individually controlled for specific tension control across the entire width of the garment. This precise control over takedown tension permits a more dimensionally accurate, higher quality garment which conforms better to the shape of the body.

Yarn Carrier Kickback Device (optional)

When knitting integral garments and intarsia on conventional V-bed systems, the yarn 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 NewSES®-C·WG'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.

option — i-DSCS®

option — Yarn Carrier Kickback Device

Setup Device

Pulldown Device

Dust Cleaner

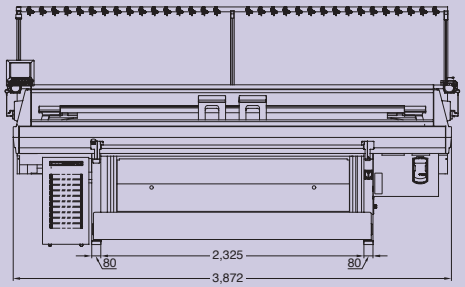
Schedule Knit

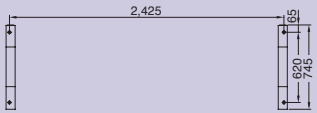
Back-Lit LCD Panel

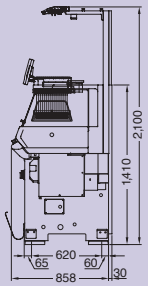
option — Network Interface

Pattern Memory

DIMENSIONS







Average Weight

NewSES-C · WG	1,663kg (3,659 lb)

Actual weight is dependent upon gauge and optional equipment.

All dimensions are in millimeters.

SPECIFICATIONS

Type	SES® 204CW
Needle Pitch	5 (needles / inch)
Knitting width	Variable stroke. Max 80" (200cm)
Tandem width	32" (81cm) × 2
Knitting speed	Max 1.1m / sec. Knitting speed varies according to various knitting conditions. Variably adjustable speed levels. 16 additional programmable speeds.
Stitch density	70 levels, electronically controlled.
Second Stitch	Fixed second stitch cam.
Racking	Motor-driven. Double racking. Max 1.5-inch racking in each direction (3 inches total) for each needlebed.
Knitting system	Ultra-compact 2-system (1 knitting system + 1 transfer system). Twin carriage. Knitran® cam × 4 included for retrofitting.
Transfer	Simultaneous transfer, front and back, independent of carriage direction (systems 1 and 4 only). Split stitch.
Sinker system	Spring-type moveable full sinker system for gentle yarn handling.
Stitch presser	Special motor-driven system allows individual on / off .
Needle selection	Full jacquard selection via special solenoid actuators.
Setup device	Takedown comb with special setup needles.
Pulldown device	Special pulldown mechanism with independent operation of front and rear. Adjustable working width. Adjustable tension.
Exit rollers	Special rollers for fabric pulldown and release. Consists of two rollers.
Sub roller	Automatic opening and closing, independent of Pulldown condition.
Yarn cutter	Single-unit system includes 1 yarn cutter and 2 yarn grippers. Both sides standard.
DSCS®	Consistent loop length by digital control method. Left side standard.[1] Yarn feed rollers on both sides standard[2,3]. Yarn feed : 10 positions on each side.
i-DSCS®	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[4].
Side tensions	16 on each side
Yarn carriers	16 carriers
Yarn guide carriers	Prevents sag when using thick or heavy yarn. 4 carriers.
Yarn carrier kickback	Kickback device using servo control. Eliminates the need for empty courses. 2 tracks on each side (4 tracks total) as basic configuration. Optional.[5,6]
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[7]	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[8]	3.5" MO disk. 3.5" floppy disk.
Pattern memory	25,165,824 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, German, Turkish, Chinese and Japanese.
Power	3 phase AC200V±10% 3.0KVA

OPTIONS : (1) Right side DSCS® (2) Left side yarn feed double roller. (3) Yarn stopper. (4) i-DSCS® (5) Yarn carrier kickback device. (6) Additional yarn carrier kickback device (2 additional tracks on each side for 8 tracks total). (7) CE Mark. (8) Network interface.

Fully Fashioned High-Speed Knitting Machine

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

NewSES-C·WG Printed in Japan