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.
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

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 system. This eliminates the need for any extra empty courses and significantly improves productivity.
DIMENSIONS

Average Weight
NewSES-C·WG 166.9kg (365.9 lb)

Actual weight is dependent upon gauge and optional equipment.

All dimensions are in millimeters.

SPECIFICATIONS

Type SES®-WG

Needle Pitch 5 (needles/inch)

Knitting width Variable; Max 66” (200cm)

Textile width 32” (81cm) + 2

Knitting speed Max 1.5m/sec, Knitting speed varies according to various knitting conditions, Variable 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 needle deck.

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.

Stitch tension Special motor-driven system allows individual on/off.

Needle selection Full packet 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.


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; Yarn feed rollers on both sides standard; Yarn feed: 10 positions on each side.

I-DSCS® DSCT® with intelligence. Activates controls yarn feed in both head and retrieval directions. Both sides standard; Yarn feed roller on both sides standard; 16 positions, Optional.

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.

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.

Shutter system Bolt drive; AC servo motor; No lubrication necessary.

Cleaning Special/slower-operated cleaner.

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; Indicators (see below).

Controller Monochrome LCD panel. Editing possible via display panel operation. Available in English, French, Italian, Spanish, German, Turkish, Chinese and Japanese.

Data Input USB, 3.5” floppy disk.

Pattern memory 25,165,624 bits (1,024 wales x 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 50% 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.

SAFETY NOTICE

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

Fully Fashioned High-Speed Knitting Machine

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