

your choice
SHIMA SEIKI

WHOLEGARMENT®
The Original Complete Garment



What is WHOLEGARMENT® ?

What is WG?

Typically, a knitted garment consists of separate parts—the front and back body panels and the sleeves—which are sewn together afterward.

In sharp contrast, Shima Seiki's revolutionary WHOLEGARMENT® knitwear is produced in one entire piece, three-dimensionally, directly on the knitting machine. Consequently it requires no expensive, time-consuming post-production labor*. The “ideal knitwear,” WHOLEGARMENT® products raise the essential attributes of knitwear—softness, lightness and resilience—to an entirely new level of sophistication.

* Some designs may require partial stitching.

The Ideal Knitwear

Seam free construction of WHOLEGARMENT® yields ideal comfort, fit and beauty of knitwear as it should be.



SWG-X 12G



Shoulders

Dimensional shaping allows shoulder lines to be positioned toward the back, and conforms better to the shape of the torso.



Neckline

Knitted-in necklines and collars create a refined and sophisticated look.



Sides

Seams no longer interfere with the continuity of the knit fabric from front to back.



Under Arms

No seams under the arms eliminates the bulky discomfort of typical knitwear.



What WHOLEGARMENT® Means to You

What W/G Means to You

A superior alternative to conventional knitting methods, the seam-free construction of WHOLEGARMENT® realizes substantial benefits unmatched by any other textile product. It opens up a world of unprecedented opportunities for the knitter, merchandiser, retailer and consumer alike.

FIRST153 M12

Benefits for the Designer.

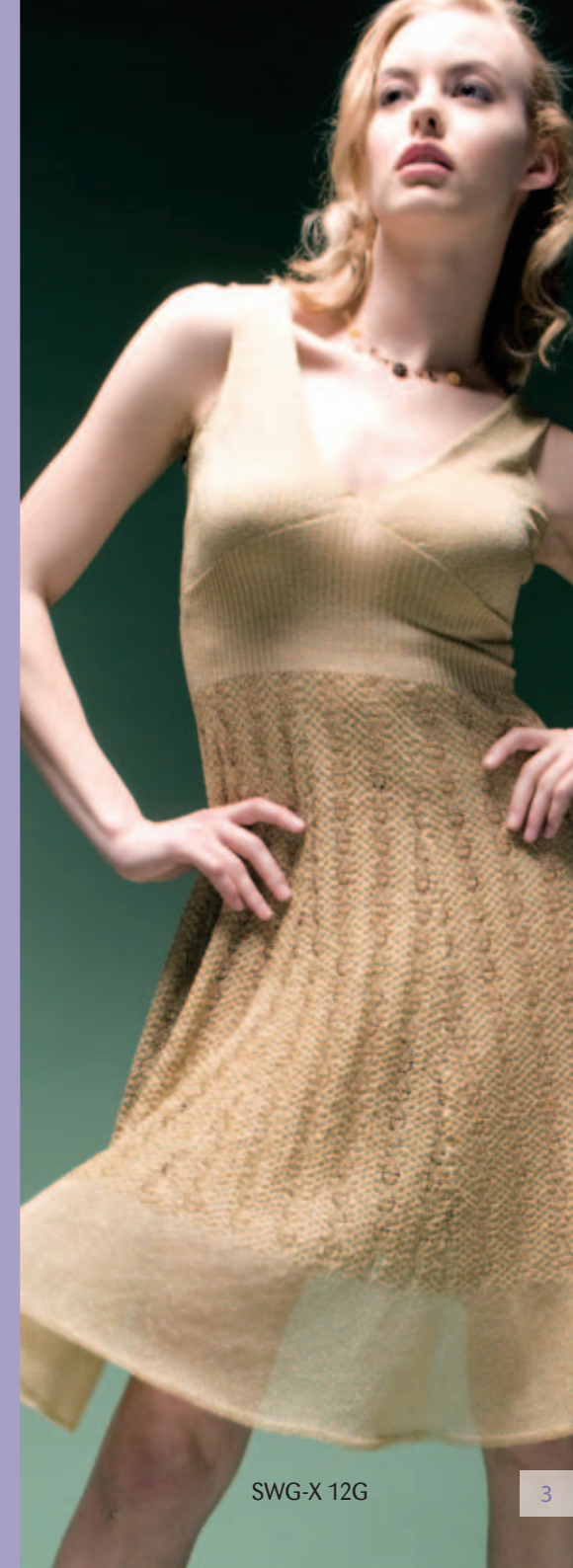
- Without seams, patterns and designs remain uninterrupted across the entire garment: front-to-back; over-the-shoulder; and down-the-sleeves.
- True reversible knitwear can be produced without the added weight and bulk of double-knits.
- 3D shaping allows the design and silhouette of the garment to be reproduced exactly as intended by the designer.

Benefits for the Producer

- Bottlenecks in the supply-chain caused by labor-intensive cutting and sewing processes are eliminated.
- Cut-loss—the amount of scrap material that is thrown away after cutting out each part of the garment—is entirely eliminated.
- Since WHOLEGARMENT® can be produced one garment at a time, the leadtime usually needed to knit each separate part of the garment is no longer an issue.
- The required number of garments can be knit at the required time, permitting true “on-demand” production.
- Since each garment is produced based on digitally programmed data, item-to-item and batch-to-batch quality—even for repeat orders—remain consistent.

Benefits for the Consumer

- Superior comfort is achieved by doing away with annoying seams. This is especially effective in the case of infant and hypoallergenic clothing, where seams can be a source of skin irritation.
- Seams no longer interfere with the natural elasticity of knits, allowing superior stretch and mobility.
- Soft and lightweight, seamless skirts and dresses drape and flow more naturally.
- Seamless one-piece construction allows stress to be distributed evenly throughout, preventing localized pressure points which may cause discomfort.
- By knitting an entire garment with only the required amount of yarn, WHOLEGARMENT® is environmentally friendly knitwear that uses minimal natural resources.



A woman is lying down, wearing a light-colored, fine gauge knit sweater. She is smiling and looking towards the camera. Next to her is a piece of fabric with a lace-like pattern, possibly a garment or a decorative element. The background is a soft, out-of-focus landscape.

Fine Gauge Refinement

Fine Gauge Refinement

Fine gauge and ultrafine gauge fabrics provide a high level of sophistication to knitwear, and help to expand its marketing range by replacing conventional perception of heavy, bulky sweaters with lightweight Spring / Summer knits. Fine gauge knits also help to open up markets for sportswear and evening wear as well.



SWG-X 12G



SWG-X 12G



SWG-X 15 G



SWG-X 12G

Coarse Gauge Charm

Coarse Gauge Charm

Coarse gauge WHOLEGARMENT® knitwear range from cozy winter sweaters to airy mesh tanktops. Coarse gauge knitwear can also mimic hand-knit fabrics with a crafty, charming, down-home appeal.

NewSES-C-WG 05



NewSES-C·WG 05



NewSES-C·WG 05



NewSES-C·WG 05



NewSWG-V 05
NewSES-C·WG 05

New Patterning Opportunities

WHOLEGARMENT® has been evolving at a remarkably rapid pace since it was first commercialized in 1995. In addition to basic patterning options as intarsia, jacquard and various structure patterns, innovations such as the SlideNeedle™ have resulted in fantastic opportunities for the exploration of new knit fashion.

New Patterning Opportunities



SWG-X 12G



NewSES-C-WG 05G



Gaugeless Knits

With gaugeless knitting, a variety of gauges can be knit into a single garment, opening up new patterning possibilities.

NewSES-C-WG 05G



Into the Realm of Wovens

Fancy yarns combined with new knitting techniques result in a variety of fresh new items which blur the boundaries between knits and wovens.

NewSES-C-WG 05G



More Than Just Sweaters

More Than Just Sweaters

Considering the extraordinary capability of WHOLEGARMENT® to shape in three dimensions, it should come as no surprise that this same technology can be applied to shapes other than that of the basic sweater. Tops, bottoms, and everything in between can be knit in their entirety. Each of these items can be knit in the same material, color and pattern, allowing total coordination from head to toe, including twin-sets and beyond.

SWG-X 12G



NewSWG-V 07G



NewSES-S · WG 12G



FIRST184 L12



NewSES-S · WG 08G

Accessory to Success

Accessory to Success

Headwear, neckwear and legwear can be knit without seams. WHOLEGARMENT® accessory items also open doors to opportunities for success through development of new niche items.

SWG041 10G



SWG041 07G



SWG041 10G

Frinjarange®

Frinjarange is a new concept in knitted garments and accessories featuring fringing that can be tied, braided, cut, arranged with hair or accessorized with beads in as many different ways as one's imagination allows.



NewSWG-V 05G



NewSES-S-WG 10G

Performance Roster

Performance Roster

As technically complicated as WHOLEGARMENT[®] may seem, all production is performed on state-of-the art computerized equipment, and programming is easy using our computer graphic design system. WHOLEGARMENT[®] goes a step beyond typical 'computer-to-knit' applications and realizes novel 'computer-to-garment' production.

SWG-X 08G



SWG
FIRST

12, 14, 18G

Next-Generation Computerized Flat Knitting Machine



SWG-X

8, 12, 15G

WHOLEGARMENT® Computerized Flat Knitting Machine



New
SWG-V

5, 7G

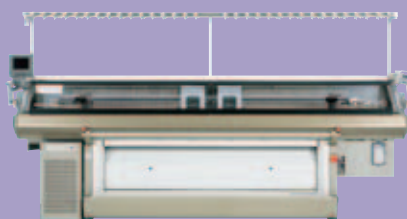
WHOLEGARMENT® Computerized Flat Knitting Machine



New
SES-SWG

8, 10, 12, 14, 16G

Computerized Flat Knitting Machine with WHOLEGARMENT® Capability



New
SES-CWG

5G

Computerized Flat Knitting Machine with WHOLEGARMENT® Capability



SWG 041N/061N/091N

7, 10, 15G

WHOLEGARMENT® Computerized Flat Knitting Machine



S **ONE**

Apparel Design Workstation



SIP-100F/160F

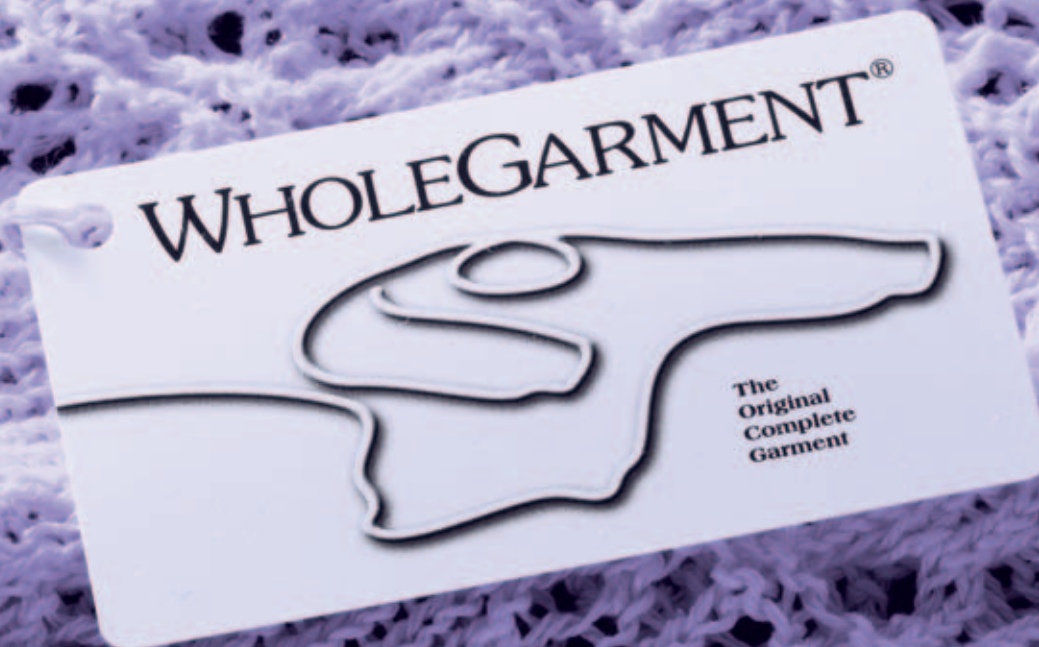
Textile Fabric Printer



SWG-X 12G with Print

More Reasons to Choose WG

More Reasons to Choose WHOLEGARMENT®





Proudly Made in Japan

WHOLEGARMENT® technology is developed and manufactured in-house at Shima Seiki's advanced research, development and manufacturing facilities covering over 150,000 sq. meters. From machining, microchip loading and product testing to final assembly, our state-of-the-art manufacturing process and skilled workers ensure product quality that is second-to-none.

WHOLEGARMENT® knitwear in stores today carry WHOLEGARMENT® Product Tags to identify the machine manufacturer's official endorsement of the product as original WHOLEGARMENT® knitwear. Shima Seiki licenses these swing tickets only to WHOLEGARMENT® users, in order to distinguish WHOLEGARMENT® products from conventional knitwear, thereby creating consumer confidence in their quality.



The Communication Space

Showrooms at our Wakayama headquarters, Tokyo and Osaka branch offices, as well as our Design Centers in Milan and New York always have the latest samples on display. They also provide business-to-business opportunities among designer, apparel merchandiser, yarn spinner and knit manufacturer, with technical guidance by Shima Seiki.



The Latest Trend Information

Cooperation with knit fashion designers and consultants, as well as participation in various fashion trend events allow Shima Seiki to offer the latest trend information to customers in a timely manner



Training

Shima Seiki offers training courses for WHOLEGARMENT® technology at its headquarters in Japan, or at subsidiaries, branch offices and agencies worldwide.

Thinking of You

Choose Shima Seiki and you'll have the backing of the world's premier developer of computerized flat knitting technology. You can rest assured knowing that your choice is the right choice.

your choice
SHIMA SEIKI

WHOLEGARMENT® MACHINE COMPARISON CHART

Model	SWG-FIRST	SWG-X	NewSWG-V	NewSES-S-WG	NewSES-C-WG	SWG041N/061N/091N
Gauge	S12, S14, S18, M12, L12	8, 12, 15	5, 7	8, 10, 12, 14, 16	5	7, 10, 15
Knitting width (max.)	50" (126cm), 62" (156cm), 72" (180cm)	68" (170cm)	72" (183cm), 80" (203cm)	72" (183cm), 80" (203cm)	80" (203cm)	16" (40cm), 24" (60cm), 36" (90cm)
Knitting system	3, 4 (Knitran®system)	3	3 (Knitran®system)	3 (Knitran®system)	2 + 2	1
4-Bed Configuration	—	○	—	—	—	—
Twin-Needle Configuration	—	—	○	—	—	—
Slide Needle	○	○	—	—	—	○
Compound Needles	—	—	—	—	○	—
Latch Needles	—	—	○	○	—	—
Gaugeless Knitting	○	—	—	○	○	—
12-Way Technique	○	—	—	—	—	—
Solenoid Needle Selection	—	—	○	○	○	○
Electromagnetic Needle Selection	○	○	—	—	—	—
Transfer Jack	○	—	—	—	—	—
Stitch Presser	○	○	○	○	○	—
Loop Presser	○	○	—	—	—	—
Full-Time Sinker System	—	—	○	○	○	○
Contra-Sinker	○	—	—	—	—	—
Yarn Gripper and Cutter	○	○	○	○	○	○
Double Racking	○	○	—	—	○	—
DSCS®	○	○ (12G&15G only)	○	○	○	—
i-DSCS®	○ option	○ (12G&15G option)	○ option	○ option	○ option	○ option
Air Splicer	○ option	○ option	○ option (7G only)	○ option	—	○ option
Yarn Carrier Kickback Device	○	—	○ option	○ option	○ option	○
Setup Device	○	○	○	○	○	—
Takedown Rollers	○ (F123/F124 only)	—	○	○	—	○
Pulldown Device	○ (F123/F124 option)	○	—	—	○	—
Dust Cleaner	—	—	○	○	○	○
Automatic Dust Cleaner	○	○	—	—	—	—
Schedule Knit	○	○	○	○	○	○
Back-Lit LCD Panel	○	○	○	○	○	○
Network Interface	○ option	○	○	○	○ option	○
Pattern Memory	M384	M768	M384	M384	M384	M384
USB Memory	○ option	○	○	○	○ option	○
Back-Up Power	—	○	○	○	—	—

your choice
SHIMA SEIKI

SHIMA SEIKI MFG., LTD.

85 Sakata Wakayama Japan
TEL +81-73-474-8210 FAX +81-73-474-8270

SHIMA SEIKI EUROPE, LTD.

Sills Road, Willow Farm Business Park,
Castle Donington, Derbyshire DE74 2US U.K.
TEL +44-1332-814770 FAX +44-1332-850272

SHIMA-ORSI S.p.A.

Via Redecesio 11, 20090 Redecesio Di Segrate, Milano, ITALY
TEL +39-02-216621 FAX +39-02-2139410

SHIMA SEIKI U.S.A., INC.

22 Abeel Road, Monroe Twp., New Jersey 08831 U.S.A.
TEL +1-609-655-4788 FAX +1-609-655-3989

SHIMA SEIKI WIN WIN LTD.

11/F Glory Industrial Building, 22 Lee Chung Street
Chai wan HONG KONG
TEL +852-2898-8339 FAX +852-2558-8332

SHIMA SEIKI KOREA INC.

337-6, Jangnan 2-Dong,
Dongdaemoon-Ku, Seoul KOREA 130-840
TEL +82-2-2216-4057 FAX +82-2-2216-4711

SHIMA SEIKI MFG., LTD., TAIPEI BRANCH

1F, 30, Lane 583, Ruey Kuang Rd., Neihu, Taipei 11492, TAIWAN
TEL +886-2-8752-3388 FAX +886-2-8797-5522

URL <http://www.shimaseiki.co.jp> Email info@shimaseiki.co.jp

WHOLEGARMENT, Slide Needle, KNITRAN, DSCS, FIRST, SWG, SES, SDS, SDS-ONE and Frinjarange are either registered trademarks or trademarks of Shima Seiki Mfg. Ltd. in Japan and / or other countries. 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.



SAFETY NOTICE

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

WHOLEGARMENT®

Printed in Japan