

N.SVR122

Computerized Flat Knitting Machine

your choice
SHIMA SEIKI

The Benchmark for Shaped Knitting is Now Even Better

SHIMA SEIKI has renewed its global standard for shaped knitting, SVR®122. The new N.SVR®122 features higher productivity through a lighter, more compact carriage combined with a maximum knitting speed of 1.4 meters per second and the R2CARRIAGE® System that permits quicker carriage returns. It also carries over established SHIMA SEIKI technology such as the renowned Digital Stitch Control System (DSCS®), spring-type moveable sinker system, stitch presser, takedown comb and yarn gripper and cutter system. Proven technology, along with Made-in-Japan quality, reliability, productivity, user-friendliness and cost-performance all combine to satisfy the high expectations of the world's fashion industry.



Rapid Response R2CARRIAGE® System

The R2CARRIAGE® (R2=Rapid Response) System features an advanced carriage mechanism combined with improved software programming that achieves quicker carriage returns after each course.

R2 CARRIAGE®
RAPID RESPONSE CARRIAGE SYSTEM



WIDEGAUGE® Knitting

N.SVR®122 SV-type offers WideGauge® capability that allows a variety of gauges to be knit on a single machine. This allows the freedom to handle changing seasons and shifting trends without investing in a machine for every gauge or resorting to the complex, time-consuming task of gauge conversion.

WIDEGAUGE®

The World's First Digital Stitch Device

Considered one of the most significant breakthroughs in modern-day knitting, SHIMA SEIKI's patented Digital Stitch Control System (DSCS®) continuously adjusts yarn feed and tension to yield loop consistency with tolerance to within a remarkable $\pm 1\%$. The result is quality control capability that is virtually impossible with conventional analog systems. In addition to being an essential element in quality shaping and integral garment production, DSCS® allows consistency among different batches and repeat orders. DSCS® is the only proven digital system field-tested and market-proven in the industry since 1984. No other manufacturer can claim this kind of experience or level of refinement.

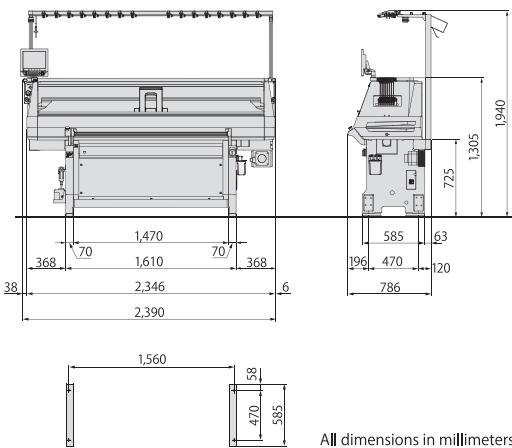


A User-Friendlier Knitting Machine

N.SVR®122 features a full-color LCD touch-sensitive control panel with a larger screen that greatly improves on conventional monochromatic displays. Still at eye-level, the control panel maintains established ergonomic benefits by carrying over function buttons for simultaneous use of both hands. Easily accessible USB interface and network connection continue to provide improved access in data transfer. For those moments when power suddenly becomes unavailable, a backup power supply allows work to resume after power failures. This offers peace of mind that an entire garment will not be lost due to blackouts.



N.SVR®122 DIMENSIONS



All dimensions in millimeters.

Average Weight

N.SVR®122 734kg (1,615 lbs.)

Actual weight is dependent upon gauge and optional equipment.

SPECIFICATIONS

Type	NSVR122	
Variation	V	C
Gauge	5 · 7 · 12 · 14	7 · 12 · 14 · 16 · 18
Knitting width	Variable stroke, max 48" (122cm)	
WideGauge®	Wide range of gauge knit on a single machine (V only).	
Knitting speed	Max 1.4m/sec. Knitting speed varies according to yarn, gauge and other knitting conditions. Speed can be programmed for 10 separate categories.	
Stitch density	120 levels, electronically controlled	
Racking	Motor-driven. Max 1 inch racking in each side (2 inches total) (V5G: Max 6.5-pitch racking on left side and max 6-pitch racking on right side). 1/2 and 1/4 pitch also available from any position.	
Knitting system	Double KNITRAN® system, single carriage (R2CARRIAGE® system)	
Transfer	Simultaneous transfer, front or back, independent of carriage direction. Split stitch possible by exchanging yarn carriers.	
Sinker system	Spring-type moveable full-sinker system. Provides gentle hold down instead of forcibly pressing down yarn. v-Sinker™ standard on 16G and 18G.	
Stitch presser	Special motor-drive. On/off adjustment. Press-down amount can also be set according to knit, transfer, etc.	
Needle hook conversion	Conversion between LL-size and MM-size possible without exchanging cams (V7G, V12G and V14G only).	
Needle selection	Full jacquard selection via special solenoid actuators	
Setup device	Takedown comb with special setup needles	
Takedown device	Main/sub rollers. Changeable 99 levels, automatically adjustable on each level. Automatic opening and closing upon command.	
Yarn cutter	Single-unit system includes 1 yarn cutter and 2 yarn grippers. Left side standard ¹ .	
DSCS®	Consistent loop length by digital control method. 4 lightweight, compact encoders (V5G: 8 encoders) ² . Left side standard.	
Yarn feed roller	8 positions on left side standard (V7G: 10 positions). Left side double roller standard (V5G: 10 positions, C18G: 8 positions). 10 positions on right side standard (V5G only).	
Side tensions	8 positions on each side (5G and 7G only: 12 positions on each side)	8 positions on each side
	Brake disk with multi-step adjustable dials. Both sides standard.	
Yarn carriers	5-7G: 9 normal carriers. 12-18G: 7 normal carriers. Plating yarn feeders standard on carrier rails no. 5 and no. 6.	
Top tension	16 units (5G and 7G only: 24 units)	16 units
	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, fabric pileup, shock detection, piece count, over-torque, program error, etc.	
Drive system	Belt drive. AC servo motor. No lubrication necessary.	
Safety devices	Full cover for noise-suppression and dust-proofing with stop motion sensor and interlock mechanism. Emergency stop switch. Emergency power off device. Ultra-low speed "crawl" setting. CE Mark. Operation lamp (see below).	
Operation lamp	Green/normal operation. Flashing green/normal stop. Flashing amber/abnormal stop.	
CONTROLLER		
Data input	USB memory interface. Ethernet 10/100 BASE-T network interface.	
Pattern memory	25,165,824 bits (1,024 wales × 8,192 addresses)	
Control unit	Built-in controller. Stored program for flat knitting machine.	
Control display	10.4-inch color LCD touch panel (800 × 600 pixels). Editing possible via display panel operation. Help/Message function (for cleaning and lubrication). Available in English, French, Italian, Spanish, Portuguese, Turkish, Arabic, Russian, Vietnamese, Chinese, Korean and Japanese.	
Back-up power	Power supply for resuming knitting after power failure.	
Power	Single phase AC220V/230V (200V-250V)	
	1.7kVA (0.5-1.2kW: Power consumption varies according to gauge and knitting condition)	

OPTIONS: (1) Right side yarn cutter (2) Left side 8 encoders

yourchoice
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Global Network



Fully Fashioned High-Speed Knitting Machine

ISO14001 Certification: SHIMA SEIKI Headquarters is certified as an ISO14001 accredited company.

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SAFETY NOTICE

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