Computerized Flat Knitting Machine with Coarse Gauge Capability
TWO ORIGINAL TECHNOLOGIES FOR IDEAL COARSE GAUGE KNITTING.

The “CS” moniker of the NewSES®122CS, NewSES®124CS and NewSES®234CS stands for “Compound-Sinker” which symbolizes the marriage of two unique Shima Seiki technologies resulting in ideal coarse gauge knitting. Compound needles are used for their short stroke and high stability suited for coarse gauge applications, while our patented spring-type sinker system greatly increases pattern variety and at the same time assures gentle fabric holddown. The NewSES®124CS and NewSES®234CS both feature a four-Knitran® twin-carriage system allowing tandem operation for greater flexibility and productivity. In addition, the NewSES®234CS features a long 90-inch (229-centimeter) knitting width for wide items such as one-piece dresses and dolman sleeves. NewSES®CS-type machines remain the industry benchmark for high-quality coarse gauge shaped knitting.
All CS-type machines feature our patented spring-type moveable full sinker system. Unlike conventional forced-operation type sinkers, the spring-type mechanism provides gentle hold-down movement which prevents the fabric from being subject to undue force. Consequently, significant improvements in quality and texture for complicated structure patterns and dimensional fabrics are achieved. And with the combined use of our stitch presser, pattern variety previously unimaginable with conventional sinkers can now be had with ease.

The Shima Seiki Spring-Type Moveable Full Sinker System

Shima Seiki developed the world’s first flatbed knitting machines to incorporate compound needles. The CS-type machines are the latest versions of this pioneering technology. Compared with conventional latch-type needles, the special compound design offers higher operational stability which is required for larger needle sizes.

Needles Specifically Suited to Coarse Gauge Applications

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.

Double Racking Mechanism

Using a special motor-driven mechanism, racking for transfer is performed by both front and rear beds simultaneously in two directions, reducing total racking movement by half. The shorter racking stroke permitted by this setup results in better racking control and knit capability. It also contributes to a more compact machine size.

The World’s First Digital Stitch Device

NewSES®122CS and NewSES®124CS come standard with Shima Seiki’s proven Digital Stitch Control System (DSCS®). Considered one of the most significant breakthroughs in flatbed knitting technology, our patented DSCS® continuously adjusts yarn feed and tension to yield loop consistency with tolerance to within a remarkable ±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 optional on NewSES®234CS.
### Average Weight

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>NewSES122CS</td>
<td>1,120kg (2,464 lb.)</td>
</tr>
<tr>
<td>NewSES124CS</td>
<td>1,260kg (2,772 lb.)</td>
</tr>
<tr>
<td>NewSES234CS</td>
<td>1,530kg (3,366 lb.)</td>
</tr>
</tbody>
</table>

Actual weight is dependent upon gauge and optional equipment.

---

### Specifications

**Type**
- NewSES® 122CS
- NewSES® 124CS
- NewSES® 234CS

**Fully Fashioned High-Speed Knitting Machine**

#### Type
- NewSES® 122CS
- NewSES® 124CS
- NewSES® 234CS

**Dimensions**

NewSES122CS/124CS/234CS Printed in Japan

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

---

### SAFETY NOTICE

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