**LU-2200N Series**

High-speed, Unison-feed, Lockstitch Machine with Vertical-axis Large Hook and Automatic Thread Trimmer

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>LU-2201N</th>
<th>LU-2202N</th>
<th>LU-2203N</th>
<th>LU-2204N</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-needle 1-needle / 2-needle &amp; dia. type</td>
<td>1-needle / 2-needle &amp; dia. type / 2-needle type</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. sewing speed</td>
<td>3,500 stitches/min</td>
<td>3,500 stitches/min</td>
<td>3,500 stitches/min</td>
<td></td>
</tr>
<tr>
<td>Max. stitch length</td>
<td>9 mm (forward/backward)</td>
<td>9 mm (forward/backward)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Needle bar stroke</td>
<td>33.8 mm</td>
<td>33.8 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. lift of the presser foot</td>
<td>Auto: 16 mm, By hand: 9 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alternating vertical movement</td>
<td>1 mm - 6.5 mm (by dial)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thread take-up</td>
<td>L/H type</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hook</td>
<td>+ Vertical 30 mm capacity type / + Vertical 30 mm capacity type</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Needle</td>
<td>134.1-303.5 (N105) / 134.1-303.5 (N106)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thread</td>
<td>#30 - #44, #04 - #30, #03 - #03</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance from needle to machine arm</td>
<td>263.5 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubrication</td>
<td>Automatic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bobbin thread winder</td>
<td>Bolt from the machine head</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety mechanisms</td>
<td>Provided as standard</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Automatic reverse feed function</td>
<td>Provided as standard</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto winder</td>
<td>Provided as standard (pneumatic auto winder)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compressed air</td>
<td>0.89 MPa</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air consumption</td>
<td>0.75 m³/min (ANF) / 1.75 m³/min (AFN) / 1.57 m³/min (ANF) / 0.75 m³/min (ANF)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight of the machine head</td>
<td>55 kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power requirement</td>
<td>Single-phase 100 - 120V, 200 - 240V / 3-phase 200 - 240V</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
<td>420 VA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

"Stitches per Minute".

**LU-2200N Series**

Capabilities for sewing car seats have been significantly improved.

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**JUKI CORPORATION**

**SEWING MACHINERY BUSINESS UNIT**

http://www.juki.com

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FEBRUARY 2015 / Printed in Japan
Efficiency of feed and sewing capabilities for supporting sewing performance at a higher speed of 3,500 sti/min

High-speed, 1-needle, Unison-feed, Lockstitch Machine with Vertical-axis Large Hook and Automatic Thread Trimmer

LU-2210N-7
LU-2210W-7

1.6 fold-capacity hook

Double-capacity hook

The machine demonstrates outstanding performance when sewing heavy materials, with its "high-quality consistent sewing capabilities", as well as with its remarkably powerful feed.

LU-2260N-7
LU-2260W-7

1.6 fold-capacity hook

Double-capacity hook

The machine promises outstanding adaptability and ease of use with its full-fledged functions.

Higher lift of the presser foot
- The machine is provided as standard with a pneumatic adjuster.
- The high, 1.6mm presser foot lift enables easy material handling.

The walking foot and presser foot's alternating vertical movement can be set and changed with ease.
- The vertical strokes of the presser foot and walking foot (alternating vertical movement) can be easily changed using a large dial mounted on the top surface of the machine head.
- In addition, the sewing speed is automatically adjusted with the set value. With this feature, ideal sewing conditions are maintained at all times.

The highly efficient vertical-axis 1.6 fold-capacity hook is provided as standard.
- With the adoption of this vertical-axis 1.6 fold-capacity hook, the frequency of bobbin thread winding is increased, promoting sewing work of increased efficiency.

Instantaneous change-over device for the alternate vertical movement amount (DL device) is provided as standard.
- The alternate vertical movement amount can be instantly and continuously modified by a process for sewing a hard-to-feed part of material, such as a multispeed part. Stitching with beautiful seams free from stitch gathering.
- The machine is provided with both a hand switch and knee switch.

Bobbin for vertical-axis 1.6 fold-capacity hook
Bobbin for standard hook

Push-button type
Knee switch type
Efficiency of feed and sewing capabilities for supporting sewing performance at a higher speed of 3,500sti/min

Higher lift of the presser foot
- The machine is provided as standard with a pneumatic adjuster.
- The high, 10mm presser foot lift enables easy material handling.

The walking foot and presser foot’s alternating vertical movement can be set and changed with ease.
- The vertical strokes of the presser foot and walking foot (alternating vertical movement) can be easily changed using a large dial mounted on the top surface of the machine head.
- In addition, the sewing speed is automatically altered with the set value. With this function, ideal sewing conditions are maintained at all times.

The machine promises outstanding adaptability and ease of use with its full-fledged functions.

High-speed, 1-needle, Unison-feed, Lockstitch Machine with Vertical-axis Large Hook and Automatic Thread Trimmer

LU-2210N-7 1.6 fold-capacity hook
LU-2210W-7 Double-capacity hook

The machine demonstrates outstanding performance when sewing heavy materials, with its “high-quality consistent sewing capabilities”, as well as with its remarkably powerful feed.

LU-2260N-7 1.6 fold-capacity hook
LU-2260W-7 Double-capacity hook

The highly efficient vertical-axis 1.6 fold-capacity hook is provided as standard.
- With the adoption of this vertical-axis 1.6 fold-capacity hook, the frequency of bobbin thread winding is reduced, promising sewing work of increased efficiency.

Instantaneous change-over device for the alternate vertical movement amount (P.I. device) is provided as standard.
- The alternate vertical movement amount can be instantaneously and freely changed for sewing heavy and thin materials, such as a multipurpose part. Sewing with beautiful seams is thus possible.
- The machine is equipped with both hand switch and knee switch.

Bobbins for vertical-axis 1.6 fold-capacity hook
Bobbins for standard hook
High-speed, 1-needle, Unison-feed, Lockstitch Machine with Vertical-axis Large Hook and Automatic Thread Trimmer

LU-2212N-7
1.6 fold-capacity hook / 2-pitch dial / Shorter thread remaining type

One of two different stitch lengths can be selected according to the application. The stitch length can be instantaneously changed over by pressing the stitch selector switch mounted on the lower part of the machine arm.

LU-2220N-7
1.6 fold-capacity hook / 2-pitch dial / Shorter thread remaining type

Thread nipping work required at the beginning and end of sewing is reduced. This is a high-performance machine which contributes to both increased productivity and improved quality for sewing car seats. Frequency of the use of scissors by the operator is reduced, thereby helping prevent the material from being damaged.

ATTACHMENTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suspended roller (arm) MT-12</td>
<td>MAH-15200A3</td>
</tr>
<tr>
<td>Suspended roller mounting base (arm)</td>
<td>107-13988</td>
</tr>
</tbody>
</table>

Suspended roller mounting base (arm) is required to mount the suspended roller.

INTERCHANGEABLE GAUGE PARTS

<table>
<thead>
<tr>
<th>LU-2210N-7</th>
<th>LU-2210W-7</th>
<th>LU-2212N-7</th>
<th>LU-2220N-7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>Walking No.</td>
<td>Power No.</td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>A</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>107-11953</td>
<td>107-12852</td>
<td></td>
</tr>
</tbody>
</table>

For material with overlapped section

For lightweight sponge

For heavy-weight sponge

For medium-heavy material

For vacuum

For auto reverse

For threading

For piping

For piping

For piping

Needle thread damping at the beginning of sewing can be turned ON/OFF.

The thread trimming mechanism has been totally redesigned to shorten the length of thread remaining on the material at the end of sewing down to 9 mm.

<table>
<thead>
<tr>
<th>[Comparison of the remaining thread length] Upper side: LU-2210N-7 / Lower side: LU-2212N-7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remaining thread length: 9mm</td>
</tr>
</tbody>
</table>

The needle thread does not remain on the right side of the material at the beginning of sewing.

Operating switch

Operating switch

Needle thread dumping at the beginning of sewing can be turned ON/OFF.
High-speed, 1-needle, Unison-feed, Lockstitch Machine with Vertical-axis Large Hook and Automatic Thread Trimmer

LU-2212N-7
1.6 fold-capacity hook / 2-pitch dial type

One of two different stitch lengths can be selected according to the application. The stitch length can be instantaneously changed over by pressing the stitch selector switch mounted on the lower part of the machine arm.

2" switch

Operating switch

High-speed, 1-needle, Unison-feed, Lockstitch Machine with Vertical-axis Large Hook and Automatic Thread Trimmer

LU-2220N-7
1.6 fold-capacity hook / 2-pitch dial / Shorter thread remaining type

Thread nipping work required at the beginning and end of sewing is reduced. This is a high-performance machine which contributes to both increased productivity and improved quality for sewing car seats. Frequency of the use of scissors by the operator is reduced, thereby helping prevent the material from being damaged.

Operating switch

Needle thread damping at the beginning of sewing can be turned ON/OFF.

The thread trimming mechanism has been totally reengineered to shorten the length of thread remaining on the material at the end of sewing down to 0 mm.

ATTACHMENTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suspended roller (arm)</td>
<td>MAH-152/08A</td>
</tr>
<tr>
<td>Suspended roller mounting base (arm)</td>
<td>1071-9998</td>
</tr>
</tbody>
</table>

*Suspended roller mounting base (arm) is required to mount the suspended roller.

INTERCHANGEABLE GAUGE PARTS

[LU-2210N-7] [LU-2210W-7] [LU-2212N-7] [LU-2220N]
**INTERCHANGEABLE GAUGE PARTS**

- **Throat plate**
  - For LU-2200N-7: 107-17708
  - For LU-2220N-7: 107-17729
  - Standard
  - Wide type

- **Feed dog**
  - For LU-2200N-7: 107-17709
  - For LU-2220N-7: 107-17729
  - Standard
  - Wide type

\*Throat plate (107-04179) for the LU-2220N-7 is also applicable to the LU-2210N-7, LU-2210N-7.

**WHEN YOU PLACE ORDERS**

- **Feed dog**
  - Code:
    - A: With groove (standard)
    - B: For thin thread
    - C: For thick thread (LU-2220N only)

- **Option**
  - Code:
    - Z: With gulley thread (available with LU-2220N only)

- **Machine head**
  - Code:
    - 1: Spindle type
    - 2: Belt line type

- **DL device**
  - Code:
    - A: Provided with DL function
    - A: Provided with DL function

**LU22**

**LU2260 S S 70B**

**[LU-2260N-7][LU-2260W-7]**

- **Needle gauge**
  - Gage set No.
  - Needle clamp
  - Pressure foot
  - Walking foot
  - Throat plate
  - Feed dog
  - Slice plate

- **Note**: Applyable to gauges 4 mm to 36 mm (LU-2200N-7) and 4 mm to 30 mm (LU-2220N-7).
  - Any gauges other than the aforementioned are available through special order.
  - The right and left plates are not included in the parts represented by the gauge set number.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model name</th>
<th>LU-2210N-7</th>
<th>LU-2212N-7</th>
<th>LU-2220N-7</th>
<th>LU-2225N-7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. stitching speed</td>
<td>1 needle / 2 pkh/min. type</td>
<td>1 needle / 2 pkh/min. type</td>
<td>1 needle / 2 pkh/min. type / 2 needle thread</td>
<td>2 needle thread</td>
</tr>
<tr>
<td>Max. stitch length</td>
<td>9 mm (forward/backward)</td>
<td>9 mm (forward/backward)</td>
<td>9 mm (forward/backward)</td>
<td>9 mm (forward/backward)</td>
</tr>
<tr>
<td>Needle bar stroke</td>
<td>93.8 mm</td>
<td>93.8 mm</td>
<td>93.8 mm</td>
<td>93.8 mm</td>
</tr>
<tr>
<td>Max. lift of presser foot</td>
<td>Auto: 16 mm, By hand: 9 mm</td>
<td>Auto: 16 mm, By hand: 9 mm</td>
<td>Auto: 16 mm, By hand: 9 mm</td>
<td>Auto: 16 mm, By hand: 9 mm</td>
</tr>
<tr>
<td>Alternating vertical movement</td>
<td>1 mm / 6.5 mm (by dial)</td>
<td>1 mm / 6.5 mm (by dial)</td>
<td>1 mm / 6.5 mm (by dial)</td>
<td>1 mm / 6.5 mm (by dial)</td>
</tr>
<tr>
<td>Thread take-up</td>
<td>Link type</td>
<td>Link type</td>
<td>Link type</td>
<td>Link type</td>
</tr>
<tr>
<td>Hook</td>
<td>Vertical axis: 1/2 hand type</td>
<td>Vertical axis: 1/2 hand type</td>
<td>Vertical axis: 1/2 hand type</td>
<td>Vertical axis: 1/2 hand type</td>
</tr>
<tr>
<td>Needle</td>
<td>134 ~135 (mm)</td>
<td>134 ~135 (mm)</td>
<td>134 ~135 (mm)</td>
<td>134 ~135 (mm)</td>
</tr>
<tr>
<td>Thread</td>
<td>#30 ~#44, 0.84 ~0.93 mm</td>
<td>#30 ~#44, 0.84 ~0.93 mm</td>
<td>#30 ~#44, 0.84 ~0.93 mm</td>
<td>#30 ~#44, 0.84 ~0.93 mm</td>
</tr>
<tr>
<td>Distance from needle to machine arm</td>
<td>263.5 mm</td>
<td>263.5 mm</td>
<td>263.5 mm</td>
<td>263.5 mm</td>
</tr>
<tr>
<td>Lubrication</td>
<td>Automatic</td>
<td>Automatic</td>
<td>Automatic</td>
<td>Automatic</td>
</tr>
<tr>
<td>Bobbin thread winder</td>
<td>Built-in the machine head</td>
<td>Built-in the machine head</td>
<td>Built-in the machine head</td>
<td>Built-in the machine head</td>
</tr>
<tr>
<td>Safety mechanisms</td>
<td>Provided as standard</td>
<td>Provided as standard</td>
<td>Provided as standard</td>
<td>Provided as standard</td>
</tr>
<tr>
<td>Automatic reverse feed mechanism</td>
<td>Provided as standard</td>
<td>Provided as standard</td>
<td>Provided as standard</td>
<td>Provided as standard</td>
</tr>
<tr>
<td>Needle holder</td>
<td>Provided as standard (pneumatic auto-feeder)</td>
<td>Provided as standard (pneumatic auto-feeder)</td>
<td>Provided as standard (pneumatic auto-feeder)</td>
<td>Provided as standard (pneumatic auto-feeder)</td>
</tr>
<tr>
<td>Compressed air</td>
<td>0.89 MPa</td>
<td>0.89 MPa</td>
<td>0.89 MPa</td>
<td>0.89 MPa</td>
</tr>
<tr>
<td>Air consumption</td>
<td>0.75 m³/min (ANF)</td>
<td>0.78 m³/min (ANF)</td>
<td>0.73 m³/min (ANF)</td>
<td>0.73 m³/min (ANF)</td>
</tr>
<tr>
<td>Weight of the machine head</td>
<td>55 kg</td>
<td>55 kg</td>
<td>55 kg</td>
<td>55 kg</td>
</tr>
<tr>
<td>Power requirement</td>
<td>Single-phase 100 ~120V, 200 ~240V</td>
<td>Single-phase 100 ~120V, 200 ~240V</td>
<td>Single-phase 100 ~120V, 200 ~240V</td>
<td>Single-phase 100 ~120V, 200 ~240V</td>
</tr>
<tr>
<td>Power consumption</td>
<td>420 VA</td>
<td>420 VA</td>
<td>420 VA</td>
<td>420 VA</td>
</tr>
</tbody>
</table>

* "Stitches" when used for "Stitches per Minute"