### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model name</th>
<th>DLN-6390</th>
<th>DLN-6390-7</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application</strong></td>
<td>Bottom-folding and hemming (lockstitch type)</td>
<td></td>
</tr>
<tr>
<td><strong>Max. sewing speed</strong></td>
<td>5,000 sit/min*</td>
<td></td>
</tr>
<tr>
<td><strong>Sewing Stitch length</strong></td>
<td>Optional gears: 2.1mm, 2.5mm, 4.2mm (utilized by changing pitch conversion gears)</td>
<td></td>
</tr>
<tr>
<td><strong>Needle bar stroke</strong></td>
<td>35mm</td>
<td></td>
</tr>
<tr>
<td><strong>Hook</strong></td>
<td>Automatic-lubrication type exclusive full-rotary 1.7-fold hook</td>
<td></td>
</tr>
<tr>
<td><strong>Feed system</strong></td>
<td>Top- and bottom-roller style</td>
<td></td>
</tr>
<tr>
<td><strong>Lift of the presser foot</strong></td>
<td>Max. 14mm</td>
<td></td>
</tr>
</tbody>
</table>

*“sit/min” stands for “Stitches per Minute”

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### OPTIONS

#### Needle cooler

The needle cooler helps reduce the occurrence of thread breakage caused by needle heat when sewing is performed at a speed of 4,000 sit/min or more.

#### Thread trimmer

Provided as standard

#### Pneumatic binder

Provided as standard (coupled to the presser lifter)

#### Needle cooler

Option

### WHEN YOU PLACE ORDERS

Please note when placing orders, that the model name should be written as follows:

**Without automatic thread trimmer**

**DLN-6390 Series**

**With automatic thread trimmer**

**DLN-6390S-7 W0**

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**DLN-6390 Series**

High-speed, Cylinder-bed, 1-needle, Needle-feed Lockstitch Machine with Large Hook

The last word in cylinder-bed lockstitch machines, intended for bottom hemming processes for jeans, casual pants and work uniforms has been launched.
This newest and most advanced machine has been developed in the pursuit of upgraded seam quality and improved workability in bottom hemming processes.

Highly consistent and reliable thread trimmer mechanism.
- The machine employs a highly reliable horizontal thread trimming mechanism which cuts thick thread without fail.
- The entire knife unit can be installed/removed.
- The moving knife position can be easily adjusted.
- The knife unit is of a bed device type. This means that adjustment of the knife unit is not required after removing the throat plate.
- Every time that operation of the thread trimmer occurs, the air blower keeps the knife clean by blowing off thread chips from the blade, ensuring the reliable operation of the thread trimmer.

Efficient workability.
- Coupled to the automatic presser lifter, the hemming binder automatically opens/closes. This enables efficient operation.
- The binder can be adjusted both longitudinally and laterally.
- The binder can also be independently opened/closed by operating the knee switch (knee lifter for machines without a thread trimmer).

The machine offers excellent seam quality and sewing capabilities.
- The needle bar stroke is as high as 35mm. This offers increased penetration of the needle into the material to improve adaptability to heavy-weight materials.
- The machine demonstrates excellent sewing capabilities, when sewing heavy-weight denim or multi-layered portions, that free it of sewing troubles such as stitch gathering, stitch skipping and needle breakage.
- The machine is able to sew material with a low presser foot pressure while preventing the material from flapping. As a result, the material can be sewn free of puckering.
- The top- and bottom-roller style feed mechanism forms seams with increased consistency to achieve improved hemming quality while reducing uneven hems.

The lubrication mechanism effectively reduces oil stains on the material.
- The machine has adopted a forced circulation mechanism in consideration of reliable oiling and oil leakage prevention.
- The frame and cylinder-bed sections are provided with a circulation feature to prevent oil leakage. In addition, to ensure reliable operation, a gasket is fitted inside the frame, preventing any leakage of oil from the needle bar.
- The machine comes with a newly designed needle bar sliding mechanism that is highly durable and free of play.

Parts from your current machine are also compatible with the DLN-6390/-6390-7.
- Feed rollers, pressers, feed adjusting gears and binders from the UNION SPECIAL 63900 model machine can be attached to the DLN-6390/-6390-7 with no additional machining or adjustments.

Parts provided as standard

<table>
<thead>
<tr>
<th>Preser foot</th>
<th>Binder</th>
<th>Feed roller</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2” Part No.: 300-31108</td>
<td>1/2” Part No.: 300-15309</td>
<td>1/2” Part No.: 276-38006 (Top roller)</td>
</tr>
<tr>
<td>1/2” Part No.: 276-35705 (Bottom roller)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Options

- For machines DLN-6390 that are not provided with a thread trimmer, the binder can be opened/closed simultaneously with the presser lifting action by means of the knee lifter supplied with the machine.

<table>
<thead>
<tr>
<th>Hem width 3/8”</th>
<th>Hem width 1” (asm.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.: 300-31009</td>
<td>Part No.: 400-40327</td>
</tr>
<tr>
<td>Part No.: 277-94601</td>
<td></td>
</tr>
</tbody>
</table>

Table of feed amount adjustment/conversion gears

The shaded portion indicates the factory-attached gear present at the time of delivery. It can be interchanged with other gears supplied with the machine to support four different feed amounts.

<table>
<thead>
<tr>
<th>Feed pitch (8-stitch/inch)</th>
<th>Top gear</th>
<th>Bottom gear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engraved marker</td>
<td>Engraved marker</td>
<td>Remarks</td>
</tr>
<tr>
<td>Engraved marker</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.2mm (5 stitch/inch)</td>
<td>300-37501</td>
<td>300-37600</td>
</tr>
<tr>
<td>5.8mm (7 stitch/inch)</td>
<td>300-37503</td>
<td>300-37501</td>
</tr>
<tr>
<td>3.2mm (8 stitch/inch)</td>
<td>300-37502</td>
<td>300-37501</td>
</tr>
<tr>
<td>3.0mm (9 stitch/inch)</td>
<td>300-37503</td>
<td>300-37501</td>
</tr>
<tr>
<td>2.8mm (10 stitch/inch)</td>
<td>300-37504</td>
<td>300-37501</td>
</tr>
<tr>
<td>2.3mm (11 stitch/inch)</td>
<td>300-37502</td>
<td>300-37501</td>
</tr>
<tr>
<td>2.1mm (12 stitch/inch)</td>
<td>300-37501</td>
<td>300-37501</td>
</tr>
</tbody>
</table>
This newest and most advanced machine has been developed in the pursuit of upgraded seam quality and improved workability in bottom hemming processes.

The machine offers excellent seam quality and sewing capabilities.
- The needle bar stroke is as high as 35mm. This offers increased penetration of the needle into the material to improve adaptability to heavy-weight materials.
- The machine demonstrates excellent sewing capabilities, when sewing heavy-weight denim or multi-layered portions, that free it of sewing troubles such as stitch gathering, stitch skipping and needle breakage.
- The machine is able to sew material with a low presser foot pressure while preventing the material from flapping. As a result, the material can be sewn free of puckering.
- The top- and bottom-roller style feed mechanism forms seams with increased consistency to achieve improved hemming quality while reducing uneven hems.

Efficient workability.
- Coupled to the automatic presser lifter, the hemming binder automatically opens/closes. This enables efficient operation.
- The binder can be adjusted both longitudinally and laterally.
- The binder can also be independently opened/closed by operating the knee switch (knee lifter for machines without a thread trimmer).

Highly consistent and reliable thread trimmer mechanism.
- The machine employs a highly reliable horizontal thread trimming mechanism which cuts thick thread without fail.
- The entire knife unit can be installed/removed.
- The moving knife position can be easily adjusted.
- The knife unit is of a bed device type. This means that adjustment of the knife unit is not required after removing the throat plate.
- Every time that operation of the thread trimmer occurs, the air blower keeps the knife clean by blowing off thread chips from the blade, ensuring the reliable operation of the thread trimmer.

The lubrication mechanism effectively reduces oil stains on the material.
- The machine has adopted a forced circulation mechanism in consideration of reliable oiling and oil leakage prevention.
- The frame and cylinder-bed sections are provided with a circulation feature to prevent oil leakage. In addition, to ensure reliable operation, a gasket is fitted inside the frame, preventing any leakage of oil from the needle bar.
- The machine comes with a newly designed needle bar sliding mechanism that is highly durable and free of play.

Parts from your current machine are also compatible with the DLN-6390/-6390-7.
- Feed rollers, pressers, feed adjusting gears and binders from the UNION SPECIAL 63900 model machine can be attached to the DLN-6390/-6390-7 with no additional machining or adjustments.

Parts provided as standard

<table>
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<tr>
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</tr>
<tr>
<td>1/2” Part No.: 310-30009</td>
<td>1/2” Part No.: 400-10327</td>
<td>1/2” Part No.: 276-35705 (Bottom roller)</td>
</tr>
<tr>
<td>1/2” Part No.: 277-94601</td>
<td>1/2” Part No.: 277-94403 (Top roller)</td>
<td>1/2” Part No.: 277-94502 (Bottom roller)</td>
</tr>
</tbody>
</table>

Options

- Hem width 3/8”
  - Part No.: 300-31009
- Hem width 1”
  - Part No.: 277-94601
- Hem width 1” (aum.)
  - Part No.: 400-10327
- Hem width 1”
  - Part No.: 277-94403 (Top roller)
  - Part No.: 277-94502 (Bottom roller)

Table of feed amount adjustment/conversion gears

<table>
<thead>
<tr>
<th>Feed pitch</th>
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<th>Bottom gear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top gear</td>
<td>Bottom gear</td>
<td>Remarks</td>
</tr>
<tr>
<td>[JUKI part No.]</td>
<td>[JUKI part No.]</td>
<td>[JUKI part No.]</td>
</tr>
<tr>
<td>Engraved marker</td>
<td>Engraved marker</td>
<td>Engraved marker</td>
</tr>
<tr>
<td>4.2mm (5 stitch/inch)</td>
<td>300-37300</td>
<td>63949-47</td>
</tr>
<tr>
<td>4.0mm (6 stitch/inch)</td>
<td>300-37302</td>
<td>63949-49</td>
</tr>
<tr>
<td>3.6mm (7 stitch/inch)</td>
<td>300-37303</td>
<td>63949-44</td>
</tr>
<tr>
<td>3.2mm (8 stitch/inch)</td>
<td>300-33302</td>
<td>63949-41</td>
</tr>
<tr>
<td>2.8mm (9 stitch/inch)</td>
<td>300-33203</td>
<td>63949-39</td>
</tr>
<tr>
<td>2.6mm (10 stitch/inch)</td>
<td>300-33104</td>
<td>63949-37</td>
</tr>
<tr>
<td>2.3mm (11 stitch/inch)</td>
<td>300-37402</td>
<td>63949-36</td>
</tr>
<tr>
<td>2.1mm (12 stitch/inch)</td>
<td>300-37501</td>
<td>63949-33</td>
</tr>
</tbody>
</table>
**SPECIFICATIONS**

**Model name** | DLN-6390 | DLN-6390-7
---|---|---
**Application** | Bottom-folding and hemming (lockstitch type) | Bottom-folding and hemming (lockstitch type)
**Max. sewing speed** | 5,000 sit/min* | 5,000 sit/min*
**Needle** | SCHMETZ UY180GVS Nm140 | SCHMETZ UY180GVS Nm140
**Needle bar stroke** | 35mm | 35mm
**Hook** | Automatic-lubrication type exclusive full-rotary 1.7-fold hook | Automatic-lubrication type exclusive full-rotary 1.7-fold hook
**Lift of the presser foot** | Max. 14mm | Max. 14mm
**Feed system** | Top- and bottom-roller style | Top- and bottom-roller style
**Binder open/close type** | Manual type | Manual type
**Fed by air cylinder** | | Driven by air cylinder
**Cylinder-bed diameter** | 180mm | 180mm
**Weight of the machine head** | 34.5kg / 36.5kg | 34.5kg / 36.5kg

* sit/min stands for “Stitches per Minute”

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**OPTIONS**

**Thread trimmer**
- Provided as standard

**Needle cooler**
- Help reduce the occurrence of thread breakage caused by needle heat when sewing is performed at a speed of 4,000 sit/min or more.

**Manual binder**
- Provided as standard (coupled to the presser lifter)

**Pneumatic AK device**
- Provided as standard (auto-lifter)

**Pneumatic binder**
- Provided as standard (coupled to the AK device)

**Edge guide**
- Accessory

**Mechanical wiper**
- Provided as standard

**Thread trimmer air blower**
- Provided as standard

**Needle cooler**
- Option

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**WHEN YOU PLACE ORDERS**

Please note when placing orders, that the model name should be written as follows:

- Without automatic thread trimmer
  - DLN6390

- With automatic thread trimmer
  - DLN6390S

**Application Code**
- Standard: S

**Option Code**
- Needle cooler: Z

**Option Code**
- With automatic reverse feed function: W0

For DLN-6390 Mechanical valve type, not provided with regulator 400-04070

For DLN-6390-7 Solenoid valve type, not provided with regulator 400-04070

To order, please contact your nearest JUKI distributor.

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**DLN-6390 Series**

High-speed, Cylinder-bed, 1-needle, Needle-feed Lockstitch Machine with Large Hook

The last word in cylinder-bed lockstitch machines, intended for bottom hemming processes for jeans, casual pants and work uniforms has been launched.