Most-advanced machine lineup best suited to the stitching process for heavy weight materials such as car seats and sofas.

1-needle type

PLC-1710
PLC-1710-7 *(with automatic thread trimmer)*

2-needle type

PLC-1760
PLC-1760L *(thick-thread long-pitch type)*
PLC-1760-7 *(with automatic thread trimmer)*
High-quality stitches which match the Soft-to-the-touch stitches help create a as if sitting on a sofa

The PLC Series machines have been finished with one-rank upgraded performance, laying importance on stitching.

**Increased efficiency of feed**

The alternating vertical movement mechanism prevents irregular stitches

- The machine comes with JUKI’s unique alternating vertical movement mechanism, where the presser foot’s amount of alternating vertical movement does not change even when the material weight changes.

- The amount of alternating vertical movement of the presser foot does not decrease even when a heavy-weight material is sewn. Therefore, the efficiency of the walking foot does not decrease so as to prevent uneven material feed.

- The amount of alternating vertical movement is adjustable up to 6.5mm according to the weight of the material or any multi-layered part of it.
Consistent stitching performance

The PLC-1700 Series machines have substantially been improved in their overall "efficiency of feed." The machine smoothly handles large and heavy-weight materials with an increased efficiency of feed, thereby producing consistent seams free from irregular stitches (differences in stitch length).

Powerful rectangular-feed mechanism

- JUKI's unique feed mechanism has been employed to eliminate stitch gathering, which is likely to occur with the conventional feed mechanism (elliptical-feed).
- The rectangular-feed locus produces an increased efficiency of feed with consistency from the beginning to the end of sewing.
- Since the feed dog's amount of lift is small, material flopping, noise and vibrations can be reduced.

Dual-tension mechanism

- The machine is able to perform sewing with low-count thread under a higher tension, which is difficult for the conventional single-tension method, with ease. The machine comes with a dual-tension thread tension system (two tension posts are used for a single thread).
Excellent operability

The basic performance (specifications) has been dramatically improved

- A maximum number of revolutions of 2500sti/min (increased by 25%) is achieved to increase productivity.
- The machine is able to support a maximum stitch length of 9mm (12mm for the L type).
- It is now possible to factory-install the presser foot with a center guide for 2 needles at the time of delivery.

Higher lift of the presser foot

- The presser foot lift is as high as 16mm, allowing the user to handle the material with ease.

Simple-setting of the amount of alternating vertical movement

- 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.

L type (thick-thread long-pitch)

The machine performs sewing with consistency with a broader range of needle counts up to #0. In addition, it achieves the maximum stitch length of 12mm.

- A triangular cam has been adopted for the feed rock cam. This enables consistent sewing with a thread count of up to 0.
- The machine comes provided as standard with a handwheel which is larger than the S type (standard) so as to increase the material-penetrating force of the needle.
- In order to ensure an efficiency of feed (presser foot pressure) which is larger than that provided by the S type (standard), a double-coil spring is equipped as standard for the pressure bar spring.
- The maximum stitch length is 12mm for both forward and reverse feed directions. In addition, the alternating vertical movement dial is provided as standard.
Safety mechanism

- Even in a situation such that the thread is caught in the hook, the safety device automatically works to prevent the hook from breaking. Resetting is possible only with a button.

Thread trimming without fail

- The count of thread which can be cut by the thread trimmer is TEX 50 to 135.
- The knife pressure is easily adjustable when the count of thread is changed.
Combination of the machine head specifications and optional devices at the time of delivery

<table>
<thead>
<tr>
<th>Machine-head mounted device</th>
<th>Gauge size (mm)</th>
<th>Optional (possible to retrofit) devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLC-1710</td>
<td></td>
<td>(1) or (1+2)</td>
</tr>
<tr>
<td>PLC-1710-7</td>
<td></td>
<td>(1) or (1+2)</td>
</tr>
<tr>
<td>PLC-1760</td>
<td>6, 8, 10, 12</td>
<td>(1) or (1+2)</td>
</tr>
<tr>
<td>PLC-1760-7</td>
<td>6, 8, 10, 12</td>
<td>(1) or (1+3+4)</td>
</tr>
<tr>
<td>PLC-1760L</td>
<td>10</td>
<td>(1) or (1+3+4)</td>
</tr>
</tbody>
</table>

*The BT device and DL device can be retrofitted to the PLC-1760L only when they are used by the set.

List of gauge components

**1-needle**

<table>
<thead>
<tr>
<th>Part</th>
<th>Throat plate</th>
<th>Walking foot</th>
<th>Feed dog</th>
<th>Presser foot</th>
<th>Throat plate support</th>
<th>Throat plate support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
<td>40038970</td>
<td>40038969</td>
<td>21444559</td>
<td>40040295</td>
<td>40038971</td>
<td>40017286</td>
</tr>
</tbody>
</table>

**2-needle**

<table>
<thead>
<tr>
<th>Part</th>
<th>Throat plate</th>
<th>Throat plate for under-tape attachment</th>
<th>Throat plate support</th>
<th>Walking foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
<td>40038996</td>
<td>40038759</td>
<td>40039004</td>
<td>40038769</td>
</tr>
<tr>
<td></td>
<td>40038758</td>
<td>40038759</td>
<td>40039001</td>
<td>40038767</td>
</tr>
<tr>
<td></td>
<td>40038994</td>
<td>40038757</td>
<td>40038999</td>
<td>40038786</td>
</tr>
<tr>
<td></td>
<td>40038993</td>
<td>40038756</td>
<td>40038997</td>
<td>40038784</td>
</tr>
</tbody>
</table>

*The needle gauge for the PLC-1760L is 10mm only.*
When you place orders

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

### Machine head

- **1-needle (without automatic thread trimmer)**
  - **PLC1710S**
    - Pneumatic auto-lifter: Not provided
      - Code: Not provided
    - Pedal switch type (AK150B): AK150B

- **1-needle (with automatic thread trimmer)**
  - **PLC1710S70BAK150B**
    - Pneumatic auto-lifter: Pedal switch type (AK150B)
      - Code: AK150B

### 2-needle (without automatic thread trimmer)

- **Specifications**
  - Standard: S
  - Thick-thread long-pitch: L

- **Presser foot**
  - Standard: S
  - With a center guide: A

- **PLC1760**
  - Needle gauge: B, C, D, E
    - 6mm
    - 8mm
    - 10mm
    - 12mm

  - Device
    - Not provided
    - With BT device and DL device: BT/DL

  - Pneumatic auto-lifter: Not provided
    - Code: Not provided

  - Pedal switch type (AK150B): AK150B
    - Code: AK150B

### 2-needle (with automatic thread trimmer)

- **Presser foot**
  - Standard: S
  - With center guide: A

- **PLC1760S70BAK150B**
  - Needle gauge: B, C, D, E
    - 6mm
    - 8mm
    - 10mm
    - 12mm

  - Device
    - Not provided
    - With BT device and DL device: BT/DL

  - Pneumatic auto-lifter
    - Not provided
    - Pedal switch type (AK150B): AK150B
    - Code: AK150B

*In the case where L (long pitch) is selected for the specification category, the needle gauge D (10mm) is only applicable.

*In the case where S (standard) is selected for the specification category, gauge provided with the device is not applicable.

To order, please contact your nearest JUKI distributor.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model name</th>
<th>PLC-1710-7</th>
<th>PLC-1710</th>
<th>PLC-1760-7</th>
<th>PLC-1760</th>
<th>PLC-1760L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>1-needle</td>
<td>2-needle</td>
<td>1-needle</td>
<td>2-needle</td>
<td>Thick-thread long-pitch type</td>
</tr>
<tr>
<td>Sewing speed</td>
<td>2,500sti/min</td>
<td>—</td>
<td>1,800rpm (P=0~10mm)</td>
<td>1,600rpm (P=10~12mm)</td>
<td></td>
</tr>
<tr>
<td>Needle</td>
<td>134×35Nm110~160 StandardNm140</td>
<td>134×35Nm140~200 StandardNm200</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thread</td>
<td>TEX 50~135</td>
<td>TEX 105~270</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. stitch length</td>
<td>9mm (forward / backward)</td>
<td>12mm (forward / backward)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stitch adjusting method</td>
<td>By dial</td>
<td>Slide type</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thread take-up</td>
<td>Pneumatic type</td>
<td>By lever</td>
<td>Pneumatic type</td>
<td>By lever</td>
<td>By lever</td>
</tr>
<tr>
<td>Automatic reverse feed function</td>
<td>Pneumatic type</td>
<td>By lever</td>
<td>Pneumatic type</td>
<td>By lever</td>
<td>By lever</td>
</tr>
<tr>
<td>Needle bar stroke</td>
<td>36mm</td>
<td>38mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hook</td>
<td>Vertical-axis 1.6-fold capacity hook (latch type)</td>
<td>Vertical-axis 1.6-fold capacity hook (cap type)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lift of the presser foot</td>
<td>By hand: 9mm, Auto: 16mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alternating vertical movement</td>
<td>1~6.5mm</td>
<td>2.5~6.5mm</td>
<td>1~6.5mm</td>
<td>2.5~6.5mm</td>
<td>1~6.5mm</td>
</tr>
<tr>
<td>Alternating vertical movement adjusting method</td>
<td>Dial</td>
<td>Slot slide</td>
<td>Dial</td>
<td>Slot slide</td>
<td>Dial</td>
</tr>
<tr>
<td>DL device</td>
<td>Provided as standard</td>
<td>—</td>
<td>Provided as standard</td>
<td>—</td>
<td>Option</td>
</tr>
<tr>
<td>Safety mechanism</td>
<td>Provided as standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bobbin thread winder</td>
<td>Built in the machine arm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottom-feedmicro-adjustment mechanism</td>
<td>Provided as standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubrication</td>
<td>Lubrication: Centralized tank method * Lubrication with an oiler for the hook section</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance from needle to machine arm</td>
<td>255mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Post height</td>
<td>161.7mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bed size</td>
<td>517mm×178mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Knee-lifter</td>
<td>—</td>
<td>Provided as standard</td>
<td>—</td>
<td>Provided as standard</td>
<td>Provided as standard</td>
</tr>
<tr>
<td>Auto-lifter</td>
<td>Provided as standard</td>
<td>Option</td>
<td>Provided as standard</td>
<td>Option</td>
<td>Option</td>
</tr>
<tr>
<td>Weight of the machine head</td>
<td>55kg</td>
<td>55kg</td>
<td>56kg</td>
<td>56kg</td>
<td>58g</td>
</tr>
<tr>
<td>Air consumption</td>
<td>0.3dm3/min (ANR)</td>
<td>—</td>
<td>0.3dm3/min (ANR)</td>
<td>—</td>
<td>0.3dm3/min (ANR)</td>
</tr>
</tbody>
</table>

*“sti/min” stands for “Stitches per Minute.”

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**Specifications and appearance are subject to change without prior notice for improvement.**

**Read the instruction manual before putting the machine into service to ensure safety.**

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