Computer-controlled Shape-tacking Machine with Full-rotary 3-fold Capacity Hook
[Sewing area: 60 mm (L) × 100 mm (W)]

LK-1941ZA (For extra heavy-weight materials with heat cutter)
LK-1942HA (For heavy-weight materials with intermediate presser)
LK-1942GA (For extra heavy-weight materials with intermediate presser)

(LK-1941ZA
(LK-1942HA
(LK-1942GA)
(Table stand is optionally available.)
A new generation of standard shape-tacking machines for seatbelts and heavy-weight materials is now launched!

**The sewing pattern can be changed with ease.**

- With its new electronic feed system, the operator can select and use the sewing pattern entered. When changing a sewing pattern, the conventional mechanical bartacking machine requires the replacement of a feed cam. Since the new electronic machine no longer uses a feed cam, this operation is no longer necessary and costs are substantially saved.
- With the handy PGM-7B programming device (optional), sewing patterns can be programmed on the main unit of the machine.

**Higher productivity**

- The machine demonstrates a high-speed sewing capability of up to 2,200 rpm for dramatically increased productivity.
- The machine is equipped as standard with a full-rotary 3-fold capacity hook. The hook reduces the frequency of the bobbin thread replacement, enhancing efficiency in sewing with thick thread.

**The machine offers improved seam quality and sewing capabilities when sewing heavy-weight or extra heavy-weight materials.**

- The following features promise improved sewing capabilities for extra heavy-weight materials: A high-power, direct-drive motor that drives the needle with increased material-penetrating force; a higher-torque stepping motor that increases the feed efficiency, and a pneumatic work clamp that increases the material clamping force.
- Higher lift of the feeding frame (max: 25mm) enables easy placement of a material on the machine.
- Adoption of JUKI's unique 3-fold capacity hook and a profound knowledge of sewing grounded on years of extensive sewing research help eliminate sewing problems and improve seam quality.
- Standard device for G type or Z type.
  - Needle thread feeding device: Feeds an adequate amount of needle thread in advance to prevent slippage from the needle when using bonding thread or the like.
  - Semi-rotary tension: Applies higher tension on the needle thread.
- The needle hole guide for the Z type machine is optimally suited for the sewing of seatbelts and ensures seams of extremely consistent quality.

**Excellent responsiveness**

Select from three different types to best suit your application: the machine for seatbelts (Z), the machine for extra heavy-weight materials (G), and the machine for heavy-weight materials (H).

<table>
<thead>
<tr>
<th>Yarn number count</th>
<th>Specified materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1 8/3</td>
<td>Seatbelts (Z)</td>
</tr>
<tr>
<td>#2 10/3</td>
<td>Extra-heavy-weight materials (G)</td>
</tr>
<tr>
<td>#3 30/3</td>
<td>Heavy-weight materials (H)</td>
</tr>
</tbody>
</table>

**A newly developed heat cutter ensures reliable and speedy trimming of thick thread. (LK-1941)**

- The thread trimmer offers outstanding reliability and durability. The ideal application for the device is the sewing of seatbelts with thick synthetic threads.
- The thread trimming operation can be executed in as little as 0.3 sec. — as fast as the thread-trimming speed achieved by a mechanical thread trimmer. The speed is adjustable and can be slowed down if desired.
- Unlike the thread trimmer using a knife, the heat cutter trims thick thread without fail and shortens the thread remaining at the seam end. It also offers improved durability to cut down on maintenance requirements.
- The heat cutter is designed to leave no thread chips on the hot wire section. This ensures consistent thread trimming at all times.
- The hot-wire temperature can be adjusted according to the operating environment.
- The heat cutter cuts both the needle thread and bobbin thread under the throat plate. This means the heat cutter will never hinder motions of the work clamp and other devices.

**The intermediate presser securely clamps the material. (LK-1942)**

- By equipping the LK-1942 as standard with an intermediate presser to prevent the material from flopping, beautifully finished seams are almost guaranteed. The height and stroke of the intermediate presser are both adjustable.

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**Full-rotary 3-fold capacity hook**

LK-1942GA

LK-1941ZA

Needle thread feeding device

Semi-rotary tension
Options are available to enhance the responsiveness of the machine to a variety of processes and applications.

**PGM-7 handy programming device**
Sewing patterns can be entered or modified through the handy programming device while holding it. Dedicated keys for frequently-used functions are provided on the handy programming device to cut down the operation time.

**Heat cutter**
*(Part No.: 144-47056)*
The heat cutter cuts both needle threads and bobbin threads (#1 to #8 synthetic thread,) under the throat plate. (For the LK-1941 model, the heat cutter is equipped as standard.)

**Reverse sweeping wiper**

**Wiper** *(Part No.: 144-46009)*
**Wiper base** *(Part No.: 144-45902)*
In some sewing processes, the wiper may interfere with the needle when it actuates. In such a case, the wiper can be placed at the retracted position.

**Thread tension controller No. 3**
*(Part No.: B5019-222-0B0)*
The tension controller unit is used to partially change the needle thread tension during the sewing of a pattern. *When used, the following parts are required:
- Air tube
  *(Part No.: BT-0400251-EB)*
- Solenoid valve
  *(Part No.: PV-150209000)*
- Solenoid valve connector assembly
  *(Part No.: 142-04754)*

**Needle cooler**
*(Part No.: 142-25056)*
The needle cooler blows air to the needle, thereby preventing thread breakage caused by hot needle.

**Work clamp, blank for seatbelts**
- Work clamp foot (right), blank
  *(Part No.: 144-44004)*
- Work clamp foot (left), blank
  *(Part No.: 144-44103)*
- Feed plate, blank
  *(Part No.: 144-44202)*
- Belt positioning guide
  *(Part No.: 144-44301)*
- Setscrew for guide (2 pcs.)
  *(Part No.: SM-9040603SC)*
- Washer of setscrew for guide (2 pcs.)
  *(Part No.: WP-0450826SC)*
Knurled blank, designed for seatbelts, for machining that prevents slippage of material more effectively than the standard one. Adjustable belt positioning guide can be used.

**Silicon oil tank**
*(Part No.: B9211-850-0A0)*
This device prevents breakage of synthetic threads.

**Thread-tension-releasing device**
*(Part No.: 142-24760)*
This device requires if you want to change the sewing position without performing thread trimming. (Only applicable to the LK-1942HA)

**3-pedal unit PK47**
*(Part No.: GPK-470010AB)*
This 3 pedal unit is required if you want to use a double-step feeding frame. *When used, the following part is required:
- Junction cord
  *(Part No.: M9025-580-0A0)*
WHEN YOU PLACE ORDERS

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

[Machine head]
(with heat cutter, without intermediate presser)

<table>
<thead>
<tr>
<th>Application</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>For extra heavy-weight materials</td>
<td>Z</td>
</tr>
<tr>
<td>For heavy-weight materials</td>
<td>H</td>
</tr>
<tr>
<td>For extra heavy-weight materials</td>
<td>G</td>
</tr>
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</table>

[Control box]

<table>
<thead>
<tr>
<th>Specification</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>With heat cutter (for LK-1941)</td>
<td>1</td>
</tr>
<tr>
<td>Without heat cutter (for LK-1942)</td>
<td>2</td>
</tr>
</tbody>
</table>

[Table stand: Optional]

JTK35

* The table stand is not equipped with casters.

To order, please contact your nearest JUKI distributor.

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http://www.juki.com

JUKI CORPORATION
MARKETING & SALES H.Q.

* 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.
* This catalog is printed on recycle paper.

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