APW-N Series
APW-895N / Lockstitch, Automatic Welting Machine (for straight pockets with flaps)
APW-896N / Lockstitch, Automatic Welting Machine (for slanted pockets with flaps)

The machine is flexibly adaptable to the sewing of various pockets.

APW-895N/896N
APW-895N/896N

Machine time is reduced to provide increased productivity

Increased productivity
In addition to the high-speed machine head with a maximum speed of 3,000 sti/min, faster movement (jump and forwarding) of the clamp foot achieves a shorter machine time.

<table>
<thead>
<tr>
<th>Welting process without flaps</th>
<th>Welting process with flaps</th>
</tr>
</thead>
<tbody>
<tr>
<td>1900~2300 pcs. / 8 hours</td>
<td>1600~1900 pcs. / 8 hours</td>
</tr>
</tbody>
</table>

APW-895N
Lockstitch, Automatic Welting Machine (for straight pockets with flaps)

The picture shows the APW-895N with options installed.

APW-896N
Lockstitch, Automatic Welting Machine (for slanted pockets with flaps)

The picture shows the APW-896N with options installed.

The APW-896N Series are an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.

The sewing machine complies with the “Juki Group Green Procurement Guidelines” on the use of hazardous substances, which is stricter than other restrictions, such as those of the RoHS Directive.

For details of JUKI ECO PRODUCTS, refer to: http://www.juki.co.jp/eco_e/index.html

For the RoHS Directive and JUKI’s replacement program for hazardous substances, see “Materials and Recyclables” on the JUKI ECO PRODUCTS page.

The Juki Green Procurement Guidelines is the voluntary standard and refers to eliminate not only the aforementioned six substances, but also other ones which significantly affect the environment.

The sewing machine utilizes the “Juki Group Green Procurement Guidelines” on the use of hazardous substances, which is stricter than other restrictions, such as those of the RoHS Directive.

The APW-896N Series supports the sewing of straight pockets (with flaps) on suits, jackets and pants.

Double-/single-welt sewing can be changed over by the simple touch of a key on the operation panel.

Increased adjustable range of sewing lengths (min. 18mm to max. 220mm)

In addition to the APW-895N’s functions, the APW-896N supports the sewing of slanted pockets (for sewing slanted flaps).

The world’s first computer-controlled sidewise cutting position of the corner knives enables easy adjustments of the knives simply by operating the panel.

Sewing pockets with flaps

Sewing straight pockets (double welt)

Sewing straight pockets (single welt)

The sewing of slanted pockets (sewing slanted flaps)
Time required for setup changing is substantially shortened

- The machine is equipped with a simple gauge changing mechanism which enables the changing and adjustment of the position of the hook driving shaft saddle from the top of the bed without tilting the machine head. The time required to change a needle gauge is less than a half of that required by conventional machines.

- The position of the folding plate and needle does not change even when double-/single-welt sewing is changed over. This means that the folding plate does not need any adjustment.

- The machine is provided as standard with a micro-adjusting function for adjusting the clamp foot position. This enables both accurate and quick adjustments of the welt width.

In contrast to the APW-895N, the APW-896N uses a simple mechanism which enables the changing and adjustment of the position of the hook driving shaft saddle. Without tilting the machine head, the time required to change a needle gauge is substantially cut.

The graphic display and touch panel on the large color LCD help dramatically increase ease of use. Basic operations are carried out with the graphic screen and pictogram buttons. Guidance messages are given in your selected language.

External media

Now the USB-ready main body of the sewing machine uses many different kinds of media.

The memory storage capability of the main body of the sewing machine has been dramatically enhanced. Now the USB-ready main body of the sewing machine uses many different kinds of media. In addition to the Compact Flash card, the main body of the sewing machine is provided as standard with a USB connector. Now, data can be input/output to/from various kinds of media (SD (Secure Digital Card), CF (Compact Flash), SM (Smart Media) etc.) by means of a USB thumb device and a card reader.

Highly-visible and easy-to-use large color LCD touch-panel (IP-420)

The graphic display and touch panel on the large color LCD help dramatically increase ease of use. Basic operations are carried out with the graphic screen and pictogram buttons. Guidance messages are given in your selected language.

The graphic display and touch panel on the large color LCD help dramatically increase ease of use. Basic operations are carried out with the graphic screen and pictogram buttons. Guidance messages are given in your selected language.

Increased sharpness of the center knife

An independently driven (speed can be changed) stepping motor is adopted for the center knife.

The center knife therefore remains unaffected by the sewing speed and cuts more sharply and cleanly. In addition, the knife shape is improved to prevent bending and demonstrates increased sharpness when an elastic material is being sewn.

Functions common to both the APW-895N and APW-896N

- The machine is equipped with a simple gauge changing mechanism which enables the changing and adjustment of the position of the hook driving shaft saddle from the top of the bed without tilting the machine head.

- The position of the folding plate and needle does not change even when double-/single-welt sewing is changed over. This means that the folding plate does not need any adjustment.

- The machine is provided as standard with a micro-adjusting function for adjusting the clamp foot position. This enables both accurate and quick adjustments of the welt width.

Newly developed stacker which is able to handle small articles

Two kinds of stackers are available; i.e., clamp bar stacker (SP-46N) and roller stacker (SP-47N). With the stacker, the machine is able to handle materials with a shortest distance of 250 mm from its edge to the pocket. A stacking sensor is also provided as standard to prevent stacking errors.

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An independently driven (speed can be changed) stepping motor is adopted for the center knife.

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Equal stitch-length right/left backtacking function is installed

The machine comes with an added function for equalizing the right and left backtack stitch length for the sewing of slanted pockets. This function helps improve the backtack seam quality.

When sewing a slanted flap

The machine is provided as standard with the “automatic left-flap angle detecting function”

By pressing the automatic angle detection button on the operation panel when sewing a left flap, the two sensors detect the flap angle to adjust the sewing starting (sewing end) position of the right and left needles when sewing a left flap.

This function is provided as standard only on left-flap sewing.

When automatic detection finds a difference of less than 0.5 mm, parallel stitching is performed.

For the sewing of single welt, the flap-angle detecting sensors cannot be used. Only the flap sensor can be used.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model name</th>
<th>APW-895N</th>
<th>APW-896N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flap type</strong></td>
<td>Rectangular flap</td>
<td>Rectangular / Slanted flap</td>
</tr>
<tr>
<td><strong>Sewing speed</strong></td>
<td>Max. 3,000 sti/min (1,000–3,000 sti/min)*</td>
<td></td>
</tr>
<tr>
<td><strong>Kind of welts</strong></td>
<td>Parallel double welt, parallel single welt (with/without flaps)</td>
<td>Parallel double welts, parallel single welts, slanted double welts, slanted single welts, trapezoidal sewing (with/without flaps)</td>
</tr>
<tr>
<td><strong>Stitch length</strong></td>
<td>Standard 2.5mm (2.0–3.4mm)</td>
<td></td>
</tr>
<tr>
<td><strong>Stitch length (fastening stitching)</strong></td>
<td>Condensation stitching: Standard 1.0mm (0.5–1.5mm)</td>
<td>Back-tack stitching: Standard 2.0mm (0.5–3.0mm)</td>
</tr>
<tr>
<td></td>
<td>*Changeable between condensation / back tack stitching</td>
<td></td>
</tr>
<tr>
<td><strong>Corner-knife cutting adjusting method</strong></td>
<td>Mechanical adjustment</td>
<td>Electronic adjustment</td>
</tr>
<tr>
<td><strong>Needle</strong></td>
<td>ORGAN DP × 17 Standard #16 (#14–#18), SCHMETZ 190R Standard #100 (#100–#110)</td>
<td></td>
</tr>
<tr>
<td><strong>Thread</strong></td>
<td>SPUN #60 (recommend)</td>
<td></td>
</tr>
<tr>
<td><strong>Hook</strong></td>
<td>Vertical-axis 1.7-fold capacity hook</td>
<td></td>
</tr>
<tr>
<td><strong>Number of independent sewing patterns</strong></td>
<td>99 patterns (999 patterns when a CF memory card is used)</td>
<td></td>
</tr>
<tr>
<td><strong>Number of cycle sewing patterns</strong></td>
<td>20 patterns</td>
<td></td>
</tr>
<tr>
<td><strong>Number of alternate sewing patterns</strong></td>
<td>20 patterns</td>
<td></td>
</tr>
<tr>
<td><strong>Machine head</strong></td>
<td>2-needle, lockstitch machine (LH-895)</td>
<td>2-needle, lockstitch machine with organized split needle bar (LH-896)</td>
</tr>
<tr>
<td><strong>Cloth feeding system</strong></td>
<td>Driven by a stepping motor</td>
<td></td>
</tr>
<tr>
<td><strong>Power requirement</strong></td>
<td>Single-phase 200<del>240V, 3-phase 200</del>380V 50Hz / 60Hz</td>
<td></td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>350VA</td>
<td></td>
</tr>
<tr>
<td><strong>Compressed air / Air consumption</strong></td>
<td>0.5MPa, 40dm³/min (ANR)</td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>238.5kg</td>
<td>259.0kg</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>1,095mm(W)×1,500mm(D)×1,200mm(H)</td>
<td>(Width 1580mm = Stacker included) (Height 1800mm = Thread stand included)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model name</th>
<th>With / Without (corner knife and center knife)</th>
<th>Sewing length (welt length)</th>
<th>Needle gauge (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>APW-895NS</td>
<td>Without</td>
<td>Min. 18mm–Max. 220mm (settable in increments of 0.1mm)</td>
<td>8, 10, 12, 14, 16, 18, 20</td>
</tr>
<tr>
<td></td>
<td>With</td>
<td>Min. 35mm When a solenoid valve is used: Min. 21mm</td>
<td>8, 10, 12, 14, 16, 18, 20</td>
</tr>
<tr>
<td>APW-895NL</td>
<td>Without</td>
<td>Min. 18mm–Max. 300mm (settable in increments of 0.1mm)</td>
<td>22, 24, 26, 28, 30, 32</td>
</tr>
<tr>
<td></td>
<td>With</td>
<td>Min. 50mm–Max. 250mm (settable in increments of 0.1mm)</td>
<td>8, 10, 12, 14, 16, 18, 20</td>
</tr>
<tr>
<td>APW-896N</td>
<td>Without</td>
<td>Min. 18mm–Max. 220mm (settable in increments of 0.1mm)</td>
<td>22, 24, 26, 28, 30, 32</td>
</tr>
<tr>
<td></td>
<td>With</td>
<td>Needle gauge 12mm or less: Min. 21mm–Max. 220mm</td>
<td>8, 10, 12, 14, 16, 18, 20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Needle gauge 14mm or more: Min. 50mm–Max. 220mm</td>
<td>8, 10, 12, 14, 16, 18, 20</td>
</tr>
</tbody>
</table>

*"sti/min" stands for "Stitches per Minute."

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SEWING MACHINERY BUSINESS UNIT
MARCH, 2016 Printed in Japan (TN)

Registered Organization:
The Scope of the Registration: The activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines, household sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.