The machine fully automatizes a series of pocket setting processes to achieve higher productivity and consistent quality.
**Increased productivity**

The machine carries out a series of pocket setting processes at 9.9 seconds/pocket. It achieves 7.1 times as productive as general-purpose machines.

### Comparison of process time and productivity

<table>
<thead>
<tr>
<th>Process</th>
<th>General-purpose machine</th>
<th>AP-876</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attach hip pocket process</td>
<td>14 sec.</td>
<td>9.9 sec.</td>
</tr>
<tr>
<td>Fold hip pocket</td>
<td>48 sec.</td>
<td>9.9 sec.</td>
</tr>
<tr>
<td>Sew hip pocket to back</td>
<td>70 sec.</td>
<td>9.9 sec.</td>
</tr>
<tr>
<td>Barbak hip pocket edge</td>
<td>8 sec.</td>
<td>9.9 sec.</td>
</tr>
<tr>
<td>Daily production</td>
<td>316 pockets</td>
<td>2237 pockets</td>
</tr>
</tbody>
</table>

*Conditions: Hours of work: 8 hours, Allowance rate: 30%*

### Comparison of effect achieved by the introduction of the AP-876

- **Process time:** 9.9 sec./pocket
- **Daily production:** 7.1 fold

The machine is able to fold a subsequent pocket and place it on a garment body while the machine is still engaged in the sewing of the current pocket. This means higher productivity can be achieved simply with one machine. The exclusive high-speed, 1-needle lockstitch zigzag stitch machine with an automatic thread trimmer has been adopted as the machine head for the AP-876. The maximum sewing speed is 4,000 st/min. The AP-876 reduces the cycle time by 5% as compared with JUKI’s conventional model, AP-875.

### Reduction in the number of facilities and that of operators to be used

The AP-876 fully automatizes a series of pocket setting processes. If these processes are done by means of the general-purpose machine, the following eight facilities (eight operators) will be required to achieve the daily production equivalent to that of the AP-876:

- **Bartacking machine:** one machine (Bartack hip pocket edge)
- **Steam Iron:** two machines (Fold hip pocket)
- **1-needle lockstitch machines with automatic thread trimmer:** five machines (Sew hip pocket to back)
- **1-needle lockstitch machines with automatic thread trimmer:** one machine (Bartack hip pocket edge)

The AP-876 is able to carry out these processes alone (one operator).

### Quality production without relying on operator skill, quality improvement

The hip pocket of jeans and other garments is a highly visible element achieving consistent high-quality pocket setting.

- **The machine folds pocket clothes with fine, sharp creases and absolutely no material slippage.**
  - A pocket cloth is folded on the table surface and properly tensed by a pocket style jig to create sharp creases without material slippage or bulging. The pocket cloth is vertically shifted and pulled to the suitable tautness for placement on the garment body. This prevents the pocket cloth from slipping out of the correct position and makes it easy to adjust folding timing. With this pocket-folding and pocket-positioning mechanism, the machine is widely adaptable to various materials.

- **The machine achieves consistent seam quality.**
  - The presser plate clamps the pocket cloth at the center of the sewing area so that the entire pocket cloth is pressed down evenly, thereby preventing the stitch from slipping. In addition, by installing JUKI’s unique hook-driving-shaft offset mechanism in the machine head, the machine produces beautiful seams with consistency while preventing the stitch skipping or thread breakage that is liable to occur when the needle throws to the right and left.

### Active tension

Market-proven active tension has been introduced to the needle thread tension controller. Pinpoint adjustment of the needle thread tension is enabled during sewing. Data on the thread tension setting relative to the material thickness and thread tension correction which varies depending on the sewing direction can be entered through the operation panel on a stitch-by-stitch basis. The needle thread tension is reproducible. This reduces the setup time required when changing the material thickness.

### Encoder control system contributes to reduced power consumption

The stepping motor provided with an encoder has been adopted for the X-Y feed control. The motor runs with a minimum of power in accordance with the material weight and stitch length, thereby reducing power consumption. This AP-876 reduces power consumption by 12% as compared with the conventional model (AP-875).

### The exclusive machine head which achieves beautiful and consistent seam quality

- **The pocket cloth clamps the pocket cloth at the center of the sewing area.**

### The pocket style jig can be easily replaced

The pocket style jig can be changed in less than five minutes without requiring a tool. This means that the machine supports small-lot production flexibility. In addition, all components of the pocket style jig has been reduced for price reduction. The running cost can be reduced as compared with the conventional machines.

### The pocket style jig

- **Replacement parts for pocket style jig**
  - Creasing gauge
  - Presser plate
  - Pocket board

### Large-sized easy-to-read color liquid crystal display has been adopted.

The AP-876 has adopted, as its operation panel, the IP-420 which has a large color liquid crystal touch panel. Entry and modification of sewing data can now be carried out on the main body of the sewing machine. In addition, the machine supports USB, allowing for the use of various USB thumb drives and media. (SD Card, CompactFlash, Smart Media, Floppy disks)

### Programming software for computer-controlled sewing machines

The PM-1 programming software, allowing for the use of various USB thumb drives and media, is separately available.

### Quality production without relying on operator skill, quality improvement

The hip pocket of jeans and other garments is a highly visible element achieving consistent high-quality pocket setting.

- **The machine folds pocket clothes with fine, sharp creases and absolutely no material slippage.**
  - A pocket cloth is folded on the table surface and properly tensed by a pocket style jig to create sharp creases without material slippage or bulging. The pocket cloth is vertically shifted and pulled to the suitable tautness for placement on the garment body. This prevents the pocket cloth from slipping out of the correct position and makes it easy to adjust folding timing. With this pocket-folding and pocket-positioning mechanism, the machine is widely adaptable to various materials.

- **The machine achieves consistent seam quality.**
  - The presser plate clamps the pocket cloth at the center of the sewing area so that the entire pocket cloth is pressed down evenly, thereby preventing the stitch from slipping. In addition, by installing JUKI’s unique hook-driving-shaft offset mechanism in the machine head, the machine produces beautiful seams with consistency while preventing the stitch skipping or thread breakage that is liable to occur when the needle throws to the right and left.
Check-out and confirmation of the pocket style jig against the sewing pattern is carried out.

This sewing machine reduces power consumption by 12% as compared with the conventional models.

To order, please contact your nearest JUKI distributor.

Product names/brand names are trademarks or registered trademarks of the respective companies.

Pocket style jig should be separately purchased.

 specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>AP-876</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine head</td>
<td>High-speed, 1-needle, lockstitch, zigzag stitching machine (exclusive machine head)</td>
</tr>
<tr>
<td>Max. sewing speed</td>
<td>4,000 sti/min</td>
</tr>
<tr>
<td>Sewing area</td>
<td>250mm × 250mm</td>
</tr>
<tr>
<td>Stitch length, Max zigzag width</td>
<td>0.1mm ~ 6.0mm, 4.3mm</td>
</tr>
<tr>
<td>Needle (at the time of delivery)</td>
<td>SCHMETZ 134 SERV7 (Nm130)</td>
</tr>
<tr>
<td>Hook</td>
<td>Horizontal-axis full-rotary 1.7 fold-capacity hook</td>
</tr>
<tr>
<td>Needle thread breakage detection</td>
<td>Provided as standard</td>
</tr>
<tr>
<td>Stacking capacity</td>
<td>Max. 64 pieces of jeans bodied</td>
</tr>
<tr>
<td>Number of patterns that can be stored in memory</td>
<td>Main-body memory: Max. 999 patterns</td>
</tr>
<tr>
<td>External media: Max. 999 patterns</td>
<td></td>
</tr>
<tr>
<td>Feeding method</td>
<td>Stepping motor(encoder control system type), X-Y clamp drive</td>
</tr>
<tr>
<td>Power requirement / Power consumption</td>
<td>Single-phase 220V / 683.9VA, 3-phase 200V / 655.2VA</td>
</tr>
<tr>
<td>Compressed air and air consumption</td>
<td>0.5Mpa(5kg/cm²), 220 dm³/min</td>
</tr>
<tr>
<td>Total weight</td>
<td>59kg</td>
</tr>
</tbody>
</table>

Dimensions

- Main unit: 1,172 mm
- Stacker: 718 mm
- Height: 1,490 mm

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 Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Code</th>
<th>Stacker</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-auto type (Crease-folding unit)</td>
<td>876S</td>
<td>Clampbar stacker</td>
<td>S</td>
</tr>
</tbody>
</table>

Pocket style jig

- Code: Z
- Options: ZZ

Pocket style jig should be separately purchased.

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

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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