### MF-7900 Series
High-speed, Cylinder-bed, Top & Bottom Coverstitch Machine

### MF-7900D Series
Semi-dry-head, Cylinder-bed, Top & Bottom Coverstitch Machine

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#### SPECIFICATIONS (U11, H11, H22, H23, H24, H25, E11, E22, E23)

<table>
<thead>
<tr>
<th>Model name</th>
<th>MF-7900 series</th>
<th>MF-7900D series</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stitch type</strong></td>
<td>2-needle/3-needle top and bottom covering stitch</td>
<td>2-needle/3-needle top and bottom covering stitch</td>
</tr>
<tr>
<td><strong>Needle</strong></td>
<td>UY128GAS (# 10S) #9–#12S</td>
<td></td>
</tr>
<tr>
<td><strong>Lift of the presser foot</strong></td>
<td>5mm (with top and bottom covering stitch), 8mm (with bottom covering stitch)</td>
<td></td>
</tr>
<tr>
<td><strong>Stitch pitch adjustment</strong></td>
<td>By dial</td>
<td></td>
</tr>
<tr>
<td><strong>Differential feed adjustment</strong></td>
<td>By micro-adjustment mechanism</td>
<td></td>
</tr>
<tr>
<td><strong>Lubrication</strong></td>
<td>Automaticac</td>
<td>Automatic (frame: no lubrication)</td>
</tr>
<tr>
<td><strong>Lubricating oil</strong></td>
<td>JUKI Machine Oil 18 (equivalent to ISO VG18)</td>
<td></td>
</tr>
<tr>
<td><strong>Feed dog inclination adjustment</strong></td>
<td>Provided as standard</td>
<td></td>
</tr>
<tr>
<td><strong>Micro-lifter</strong></td>
<td>Provided as standard</td>
<td></td>
</tr>
<tr>
<td><strong>Needle gauge (mm)</strong></td>
<td>3.2, 4.0, 4.8, 5.6, 6.4</td>
<td></td>
</tr>
<tr>
<td><strong>Needle bar stroke converting function</strong></td>
<td>Provided as standard: 31mm: at the time of delivery / When sewing a heavy-weight material: 33mm</td>
<td>Provided as standard: 31mm: at the time of delivery / When sewing a heavy-weight material: 33mm</td>
</tr>
<tr>
<td><strong>Silicon oil tank for needle tip and needle thread</strong></td>
<td>Provided as standard</td>
<td></td>
</tr>
<tr>
<td><strong>Cartridge oil filter</strong></td>
<td>Provided as standard</td>
<td></td>
</tr>
<tr>
<td><strong>Power requirement / Power consumption</strong></td>
<td>Single-phase 100–120V / 200–240V, 3-phase 200–240V / 500VA (with automatic thread trimmer)</td>
<td></td>
</tr>
<tr>
<td><strong>Weight of the machine head</strong></td>
<td>41kg (without device), 40kg (with UT51), 51kg (with PL/EUT52), 44kg (with UT57)</td>
<td>43kg (without device), 46kg (with UT57)</td>
</tr>
<tr>
<td><strong>E11 (with PL)</strong></td>
<td>44kg (without device), 49kg (with UT55), 47kg (with UT56)</td>
<td>43kg (without device), 51kg (with UT52), 46kg (with UT57)</td>
</tr>
</tbody>
</table>

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**Notes:**
- 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 catalogue prints with environment-friendly soyink on recycle paper.
- Paper from responsible sources: FSC™ C001712

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**Contact:**
- 2-11-1, TSURUMAKI, TAMA-SHI, TOKYO 206-8551, JAPAN
- PHONE: 81-42-357-2370
- FAX: 81-42-357-2274
- http://www.juki.com

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**Registration:**
- Head Office
  - Registered Organization: Juki Corporation
  - 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.
The MF-7900 Series is a newly developed coverstitch machine provided with lots of mechanisms for improving the seam quality.

It is provided with many different sewing-related mechanisms which contribute to improved seam quality, such as the new feed mechanism, and differential-feed micro-adjustment mechanism. In addition, the machine is provided as standard with a looper thread twining prevention mechanism for improved maintenance.

**MF-7900 Series**
- High-speed, Cylinder-bed, Top & Bottom Coverstitch Machine
- Semi-dry-head, Cylinder-bed, Top & Bottom Coverstitch Machine
- Semi-dry-head, Direct-drive, Cylinder-bed, Top & Bottom Coverstitch Machine

**MF-7900D Series**
- Semi-dry-head, Cylinder-bed, Top & Bottom Coverstitch Machine
- Semi-dry-head, Direct-drive, Cylinder-bed, Top & Bottom Coverstitch Machine

**MF-7900D/UT Series**
- Semi-dry-head, Direct-drive, Cylinder-bed, Top & Bottom Coverstitch Machine with Needle- and Looper-Thread Trimmer

**Seam quality is improved!!**

Thanks to the new feed mechanism, many different types of sewing are achieved.

The feed locus can be adjusted externally. The feed locus is now adjustable in terms of the vertical direction and horizontal direction, thereby improving responsiveness to sewing materials.

**Micro-lifter mechanism**

Elastic material or delicate material can be sewn with the presser foot kept slightly raised. This effectively helps reduce the degree of slippage, warpage and damage of the material.

**Differential-feed micro-adjustment mechanism**

It is possible to finely adjust the differential feed amount to a best-suited value for the material to be used. The differential feed ratio is constant even if the stitch length is changed.

**The world's first**

**Simplified maintenance mechanism**

The looper thread twining prevention mechanism has been improved and is provided as standard for the sewing machine.

In the case of looper thread breakage, the looper thread twining prevention mechanism is activated to trim the looper thread before the thread twines on the looper thread cam. In this way, the looper thread twining prevention mechanism prevents the looper thread from twining on the looper thread cam. In addition, the looper thread cam, which has been incorporated in the sewing machine, has been changed so that it is mounted outside of the sewing machine. The externally-mounted looper thread cam promises improved maintainability.

**Commercially-available gauge components are applicable with no additional work.**

As a result of the commonality of components, commercially-available components (presser foot, throat plate and needle clamp) are now applicable and easily obtainable.

**All of the sewing machines with a thread trimmer are provided with a direct-drive motor.**

The direct-drive motor system has been adopted by all of the sewing machines with a thread trimmer. As a result, the sewing machine starts up swiftly and promises increased stop accuracy, thereby demonstrating improved responsiveness. In addition, the machine is no longer provided with a V-belt. This means that the adoption of the direct-drive motor is also effective in the elimination of belt shreddings. Power is directly transmitted from the motor to the sewing machine, thereby contributing to reduced power consumption. (This sewing machine reduces power consumption by 27% as compared with the conventional models.)

**JUKI’s dry-head technology**

**provides sewing products from being stained with oil.**

With the excellent functions inherited from the MF-7900 Series, the MF-7900D is provided with a dry frame mechanism to eliminate the cause of oil stains. Stain removing work or re-sewing work is substantially reduced by protecting sewing products from being stained with oil, thereby improving the quality of finished products.

**The frame no longer requires oiling.**

Unlike conventional models, the oiling mechanism inside the frame has been eliminated. As a result, oil does not leak from the needle bar, presser bar or spindleshaft.

**Dry-head technology has materialized a frame which does not need oiling.**

The needle bar mechanism and spindlershaft mechanism have been applied with a special surface treatment. JUKI’s unique special grease is used for lubrication. Grease-filled bearings have been adopted for the crank rod. These allow the machine’s frame mechanism to demonstrate outstanding durability without being coated.

**Environmental consciousness**

Stain removing work is reduced, the quantity of the use of cleaning fluid, is included in those chemicals which need to be reduced, as it is an substance. This can be used in pipe-line.

**Dichlorofluoroethane (HCFC-141), which is generally used in oil cleaning, has been adopted for the crank rod. This effectively helps reduce the degree of oil stains on sewing products.**

Since oil stains on sewing products are reduced, the efficiency of oil stain remover generally used in sewing plants can be reduced.

Environmental consciousness and the excellent functions inherited from the MF-7900 Series, the MF-7900D is provided with a dry frame mechanism which does not need oiling.

**The semi-dry head sewing machine increases its sewing speed to 5,000 st/min**

The semi-dry head sewing machine is a substances that can harm the ozone layer. As a result, oil does not leak from the needle bar, presser bar or spindleshaft.

The semi-dry head sewing machine increases its sewing speed to 5,000 st/min.
**H22,H23**

This model is best suited to hemming processes for sleeves and the bottoms of T-shirts, Polo shirts, etc. It comes with a left hand fabric trimmer for trimming fabric in parallel, at all times, to the seam with consistency. The upper knife stroke can be adjusted with ease.

## List of subclass machines

<table>
<thead>
<tr>
<th>Application</th>
<th>Seams</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MF-7902/H22, H23</td>
<td>2</td>
<td>3 5</td>
</tr>
<tr>
<td>MF-7902/H23</td>
<td>3 5</td>
<td></td>
</tr>
</tbody>
</table>

**MF-7900/H22, H23**

For hemming (with left hand fabric trimmer)

- **MF-7900/H22**
  - For hemming (with left hand fabric trimmer, for extra light-weight materials)
  - Model No.: MF-7902-H22, H23-B56/UT51, UT57

- **MF-7900/H23**
  - For hemming (with left hand fabric trimmer, for extra light-weight materials)
  - Model No.: MF-7902-H22, H23-B56/UT51, UT57

### List of subclass machines

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<td>2</td>
<td>3 5</td>
</tr>
<tr>
<td>MF-7900/H23</td>
<td>3 5</td>
<td></td>
</tr>
</tbody>
</table>

**MF-7900D/H22, H23**

For hemming (with left hand fabric trimmer, for extra light-weight materials)

- **MF-7900D/H22**
  - For hemming (with left hand fabric trimmer, for extra light-weight materials)
  - Model No.: MF-7902D-H22, H23-B56/UT51, UT57

- **MF-7900D/H23**
  - For hemming (with left hand fabric trimmer, for extra light-weight materials)
  - Model No.: MF-7902D-H22, H23-B56/UT51, UT57

### List of subclass machines

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<tr>
<th>Application</th>
<th>Seams</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MF-7900D/H22</td>
<td>2</td>
<td>3 5</td>
</tr>
<tr>
<td>MF-7900D/H23</td>
<td>3 5</td>
<td></td>
</tr>
</tbody>
</table>

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**H11**

This model is best suited to elastic-band wetting for swimwear, briefs, etc. It wets the elastic band which has been overlapped on the garment body.

## List of subclass machines

<table>
<thead>
<tr>
<th>Application</th>
<th>Seams</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MF-7903-H11</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

**MF-7900D/H11**

- **MF-7900D/H11**
  - Elastic band wetting

## List of subclass machines

<table>
<thead>
<tr>
<th>Application</th>
<th>Seams</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H11 with PL</td>
<td>Swimwear</td>
<td>MF-7903-H11-B66/UT51</td>
</tr>
</tbody>
</table>

**MF-7903-H11-B66/UT51**

- **MF-7903-H11-B66/UT51**
  - Elastic band wetting

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**U11**

The machine can be used for the hemming process of the sleeves and bottoms of T-shirts and for the covering process for sportswear and knitterwear.

## List of subclass machines

<table>
<thead>
<tr>
<th>Application</th>
<th>Seams</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MF-7900-U11</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

**MF-7900D/U11**

- **MF-7900D/U11**
  - Universal type

**MF-7900D/H11**

- **MF-7900D/H11**
  - Elastic band wetting

## List of subclass machines

<table>
<thead>
<tr>
<th>Application</th>
<th>Seams</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U11 Universal type</td>
<td>T-shirts, Polo shirts, swimwear</td>
<td>MF-7902A-U11-B66/UT51</td>
</tr>
</tbody>
</table>

**MF-7902A-U11-B66/UT51**

- **MF-7902A-U11-B66/UT51**
  - Universal type

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**H24**

For hemming (with left hand fabric trimmer, for extra light-weight materials)

## List of subclass machines

<table>
<thead>
<tr>
<th>Application</th>
<th>Seams</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MF-7900D/H24, H25</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

**MF-7900D/H24**

- **MF-7900D/H24**
  - For hemming (with left hand fabric trimmer, for extra light-weight materials)
**List of subclass machines**

<table>
<thead>
<tr>
<th>Application</th>
<th>Seam</th>
<th>Model No.</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>MF-7900/ E22</td>
<td>Elastic band attaching</td>
<td>MF-7922-E22-B56/FL13</td>
<td>3</td>
<td>5</td>
<td>3.6</td>
<td>0.9</td>
<td>1.0</td>
<td>1.1</td>
<td>1.1</td>
<td>6</td>
<td>0.9</td>
<td>3.6</td>
</tr>
<tr>
<td></td>
<td>with right hand fabric trimmer</td>
<td>MF-7922-E22-B56/FL13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>MF-7900/ E23</td>
<td>Elastic band attaching</td>
<td>MF-7923-E23-B56/FL13</td>
<td>3</td>
<td>5</td>
<td>3.6</td>
<td>0.9</td>
<td>1.0</td>
<td>1.1</td>
<td>1.1</td>
<td>6</td>
<td>0.9</td>
<td>3.6</td>
</tr>
<tr>
<td></td>
<td>with right hand fabric trimmer</td>
<td>MF-7923-E23-B56/FL13</td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

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<th>Application</th>
<th>Seam</th>
<th>Model No.</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>MF-7900/ E11</td>
<td>Elastic band attaching</td>
<td>MF-7922-E11-B56/FL13</td>
<td>2</td>
<td>5</td>
<td>3.6</td>
<td>0.9</td>
<td>1.0</td>
<td>1.1</td>
<td>1.1</td>
<td>6</td>
<td>0.9</td>
<td>3.6</td>
</tr>
<tr>
<td></td>
<td>with right hand fabric trimmer</td>
<td>MF-7922-E11-B56/FL13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MF-7900/ E11</td>
<td>Elastic band attaching</td>
<td>MF-7923-E11-B56/FL13</td>
<td>3</td>
<td>5</td>
<td>3.6</td>
<td>0.9</td>
<td>1.0</td>
<td>1.1</td>
<td>1.1</td>
<td>6</td>
<td>0.9</td>
<td>3.6</td>
</tr>
<tr>
<td></td>
<td>with right hand fabric trimmer</td>
<td>MF-7923-E11-B56/FL13</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**MF-7900DRH24 Series**

- Semi-dry head, Cylinder-bed, Bottom Coverstitch
- Machinewith digital type top feed / For hemming
  - <with left hand fabric trimmer>

**Semi-dry head, Cylinder-bed, Bottom Coverstitch**

- This mechanism prevents problems, such as twist of fabric, uneven material feed, skew of grain and stitch gathering on multi-layered sections of material, which are likely to occur when sewing elastic materials, thereby achieving stable seam quality.
- Digital setting of the top feed mechanism enables easy adjustment of sewing even when the product to be sewn is changed, thereby reducing the setup time.

**The machine is provided with the digital type top feed mechanism**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model name</th>
<th>MF-7912DRH24</th>
<th>MF-7913DRH24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stitch type</td>
<td>2-needle bottom covering stitch</td>
<td>3-needle bottom covering stitch</td>
</tr>
<tr>
<td>Max. sewing speed</td>
<td>5,000 sti/min</td>
<td>5,000 sti/min</td>
</tr>
<tr>
<td>Feed mechanism</td>
<td>Digital type top feed</td>
<td>Digital type top feed</td>
</tr>
<tr>
<td>Stitch length</td>
<td>0.9mm~3.6mm</td>
<td>0.9mm~3.6mm</td>
</tr>
<tr>
<td>Pressure bar air pressure change-over switch</td>
<td>Push button method</td>
<td>Push button method</td>
</tr>
<tr>
<td>Needle</td>
<td>UT128 (AS95) #125</td>
<td>UT128 (AS95) #125</td>
</tr>
<tr>
<td>Lift of the presser foot</td>
<td>3-8mm</td>
<td>3-8mm</td>
</tr>
<tr>
<td>Lubricating oil</td>
<td>JUKI Machine Oil 18 (equivalent to ISO VG18)</td>
<td>JUKI Machine Oil 18 (equivalent to ISO VG18)</td>
</tr>
<tr>
<td>Power requirement / Power consumption</td>
<td>Single-phase100V, 200V - 500VA</td>
<td>Single-phase100V, 200V - 500VA</td>
</tr>
</tbody>
</table>

**Semi-dry head, Cylinder-bed, Bottom Coverstitch**

- Flat and soft seams (H24)

**E22**

For endless spandex elastic band attaching

- (with manual binder and tension roller)

**E23**

For endless spandex elastic band attaching

- (with air binder and tension roller)

**MF-7912DRH24**

- Semi-dry head, Cylinder-bed, Bottom Coverstitch
- Machinewith digital type top feed
- <with left hand fabric trimmer>

**When you place orders**

- **Machine head**
  - **Model name**
  - **Code**
  - **Device and attachment**
  - **Code**

- **Control box**
  - **Model name**
  - **Code**

- **Operation panel**
  - **Model name**
  - **Code**
UT51
Electromagnetic needle thread / looper thread trimming device / Auto-lifter
It is an electromagnetic needle thread / looper thread trimming device / Auto-lifter. The machine does not need an air compressor to achieve easy layout changing.

UT52
Electromagnetic needle thread / looper thread trimming device / Auto-lifter
It is an electromagnetic needle thread / looper thread trimming device / Auto-lifter with cloth puller.

UT53
Electromagnetic type bottom thread trimming device + Electromagnetic type wiper / Auto-lifter
This is an electromagnetic type bottom thread trimming device / auto-lifter. It is used for processes which do not need top covering.

UT55
Pneumatic type bottom thread trimming device + Electromagnetic type wiper / Auto-lifter
This is a pneumatic type bottom thread trimming device / auto-lifter. It is used for processes which do not need top covering.

UT56
Pneumatic type bottom thread trimming device + Air blow type wiper / Auto-lifter
This is a pneumatic type bottom thread trimming device / auto-lifter. It pneumatically handles the needle thread (i.e., places the needle thread above the presser foot) instead of the mechanical wiper.

UT57
Pneumatic type needle thread / looper thread trimming device / Auto-lifter
It is a pneumatic type needle thread / looper thread trimming device / Auto-lifter. Since the automatic lift of the presser foot and automatic thread trimming can be achieved by lightly depressing the pedal, work efficiency is dramatically increased. The air blow type wiper is supplied with the sewing machine as an accessory.

UT59
Pneumatic type top and bottom thread trimming device with thread-fray-prevention function
It is a state-of-the-art function to make the thread-fray-prevention at the end of sewing more reliable.

SS11
Short stitch device: Part No.70004376
This is a device for preventing the thread from coming undone at the end of sewing. The device is able to sew condensation stitches by the number specified as desired. It prevents the needle thread from being poorly tensed, which is likely to occur in cases where the amount of condensation is reduced.

PL12
Cloth puller: Gear type
This is a gear type cloth puller. It helps feed difficult-to-feed materials to assist smooth sewing.
(Example: Attaching flat elastic bands)

MC37-MC40
Pneumatic cloth chip suction device
MC37 (solenoid valve type): Part No.70004432,
MC40 (mechanical valve type): Part No.70004434

Compressedair / Air consumption (with automatic thread trimmer)

<table>
<thead>
<tr>
<th>Device</th>
<th>Top and bottom thread trimmer / Auto-lifter</th>
<th>Bottom thread trimmer / Auto-lifter</th>
<th>Air blow type wiper / Auto-lifter</th>
<th>MC37 / MC40</th>
<th>Air consumption dm³/min (ANR)</th>
<th>Compressed air MPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>UT55</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>456</td>
<td>0.5</td>
</tr>
<tr>
<td>UT56</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>182</td>
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<td>UT57, UT59</td>
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<td>—</td>
<td>—</td>
<td>—</td>
<td>456</td>
<td>0.5</td>
</tr>
</tbody>
</table>

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

JUKI ECO PRODUCTS: The MF-7923U11B56/UT57 is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.

- This sewing machine reduces power consumption by 27% compared to the conventional models.
- 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.

See the detailed specifications and other features on the Juki ECO Products website.
**WHEN YOU PLACE ORDERS**

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

### MF7900

- **Machine head**
  - Without automatic thread trimmer
    - **Stitch type**
      - 3-needle, top and bottom coverstitch
      - 2-needle, top and bottom coverstitch
      - 3-needle, bottom coverstitch
  - **Device and attachment**
    - Cloth puller: Flat type
    - Cloth puller: Gear type
    - Pneumatic cloth chip suction device
    - with thread-fray-prevention function
    - Pneumatic type top and bottom thread trimming device
  - **Universal type**
  - **Application**
    - Elastic band attaching
      - with manual binder and tension roller
    - For endless spandex elastic band attaching
      - with air binder and tension roller
  - **Needle gauge**
    - 6.4mm
    - 5.6mm
    - 4.8mm
    - 4.0mm
    - 3.2mm
  - **Thread trimming device**
    - Electromagnetic type top and bottom thread trimming device

### MF7900D (Semi-dry-head)

- **Machine head**
  - Without automatic thread trimmer
    - **Stitch type**
      - 3-needle, top and bottom coverstitch
      - 2-needle, top and bottom coverstitch
      - 3-needle, bottom coverstitch
  - **Device and attachment**
    - Cloth puller: Flat type
    - Cloth puller: Gear type
    - Pneumatic cloth chip suction device
    - with thread-fray-prevention function
    - Pneumatic type top and bottom thread trimming device
  - **Universal type**
  - **Application**
    - Elastic band attaching
      - with manual binder and tension roller
    - For endless spandex elastic band attaching
      - with air binder and tension roller
  - **Needle gauge**
    - 6.4mm
    - 5.6mm
    - 4.8mm
    - 4.0mm
    - 3.2mm
  - **Thread trimming device**
    - Electromagnetic type top and bottom thread trimming device

### Operation panel

- **Control box**
  - SC-921B
  - CP-18B