

# PLC-2700 Series

Post-bed, Unison-feed, Lockstitch Machine with Vertical-axis Large Hook

It is the most-advanced sewing machine which is best-suited to the sewing of heavy weight materials sewing processes such as car-seats, sofas and sports goods.



1-needle  
type

**PLC-2710**

(without automatic thread trimmer)

**PLC-2710-7**

(with automatic thread trimmer)

PLC-2710S-7-0BB/CP-180C



2-needle  
type

**PLC-2760**

(without automatic thread trimmer)

**PLC-2760-7**

(with automatic thread trimmer)

**PLC-2760L**

(thick-thread type)

**PLC-2765**

(organized split needlebars type)

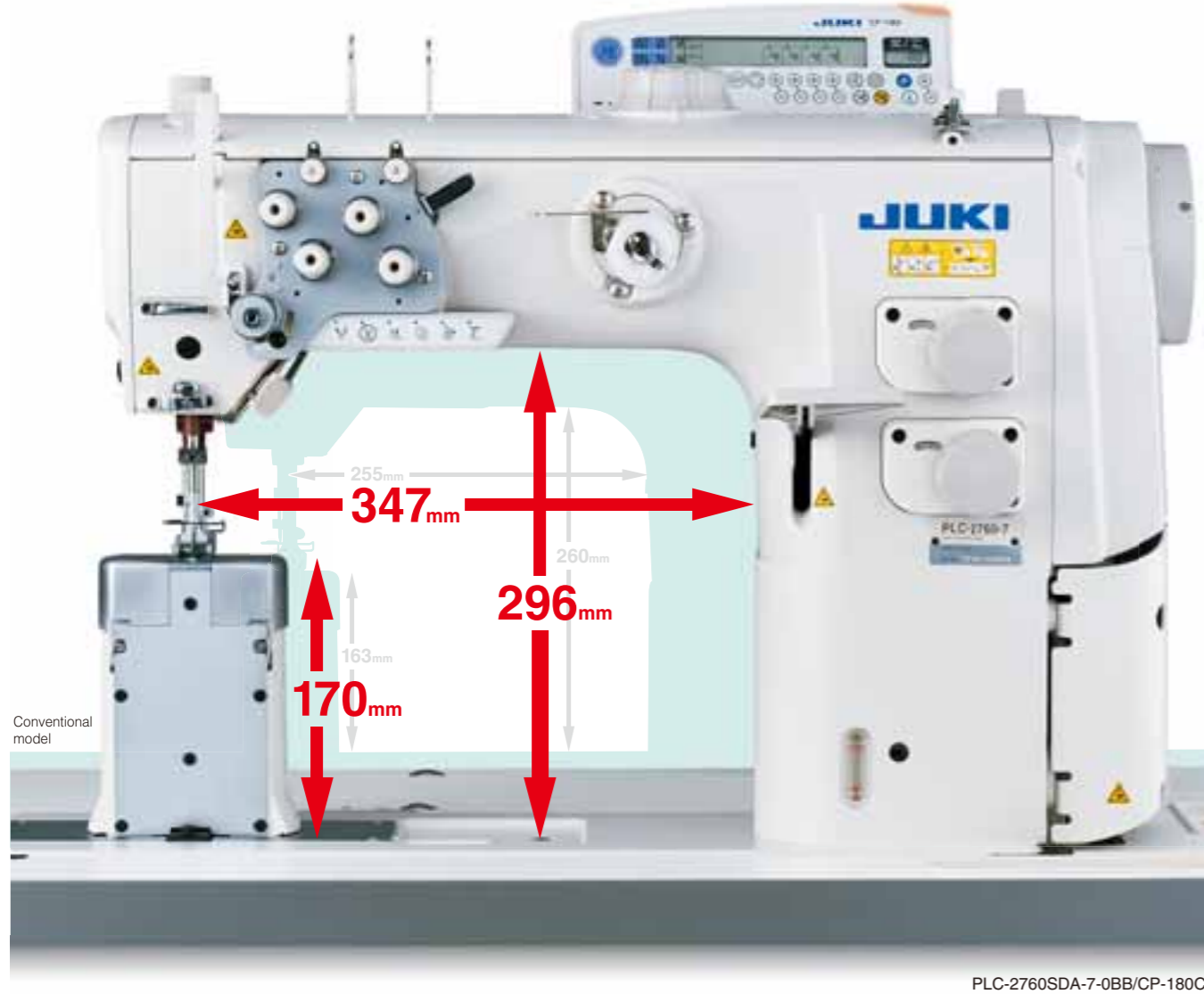
PLC-2760SDA-7-0BB/CP-180C

Post-bed, Unison-feed, Lockstitch Machine with Vertical-axis Large Hook

# PLC-2700 Series

# Most-advanced machine best suited to the stitching for heavy weight materials.

The long distance from the machine arm to the needle contributes to improved workability



PLC-2760SDA-7-0BB/CP-180C

Conventional model

## Stitches with authentic quality

〈All PLC-2700 Series has achieved the max stitch length of 12mm.〉

**3D stitch**  
for car seat of head rest, arm rest, etc.



※ The machine is using the guide presser foot.

**Topstitch**  
for car seat, sofas, etc.



## Stitch length can be changed over among different lengths.

The sewing machine with a thread trimmer is provided as standard with a 2-pitch dial. One unit of this sewing machine is able to sew different sewing lengths since the sewing length can be instantaneously changed over.



## Reduction of noise and vibration.

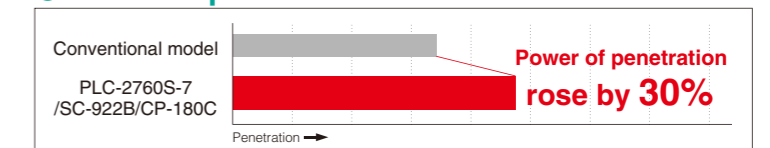
Reduce weight by using resin parts for surface of vibration point. Noise and vibration decrease by changing the gear of an Hook into a bevel gear.

## High-torque direct-drive motor is installed.

The sewing machine provided with a thread trimmer has adopted a high-torque direct-drive motor which is suitable for heavy-weight materials. As a result, the sewing machine is excellent at its responsiveness and ensures increased penetration into the material even when sewing multi-layered parts.

※ It does not contain without automatic thread trimmer.

## Power of penetration rose



## Standard

### PLC-2710-7 PLC-2760-7

Post-bed, Unison-feed,  
Lockstitch Machine with Vertical-axis Large Hook

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PLC-2760SDA-7-0BB/CP-180C

### PLC-2710 PLC-2760

Post-bed, Unison-feed,  
Lockstitch Machine with Vertical-axis Large Hook

The machine is the standard type without automatic thread trimmer, which is essential for topstitching processes.



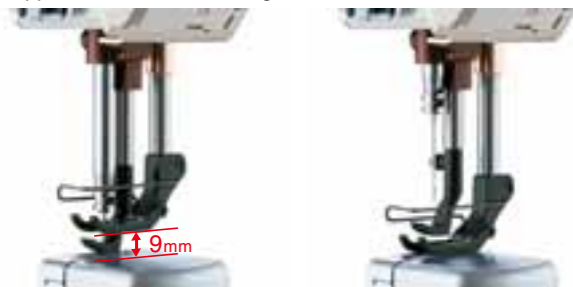
PLC-2710

# Functions for improving seam quality and workability.

## Feed mechanism applied to different materials

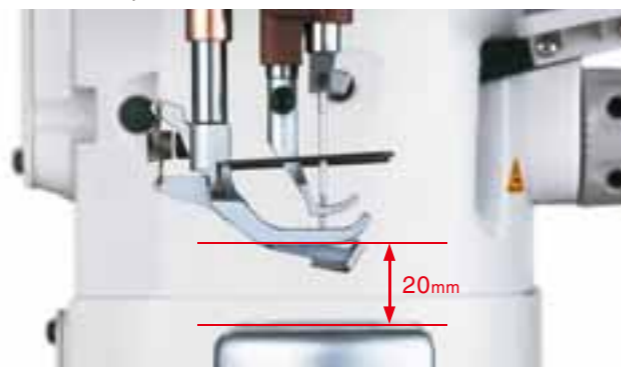
### Walking-foot/presser-foot alternating vertical movement mechanism prevents irregular stitches

The sewing machine has adopted a feed mechanism which keeps the ratio between the amount of the vertical movement of the walking foot and that of the presser foot constant even when the material is changed. The amount of the alternating vertical movement of the walking foot and the presser foot is 9 mm at the maximum. This amount can be set with ease by means of the large dial installed on the upper section of the sewing machine.



### Higher lift of the presser bar

A presser bar height of 20 mm is achieved when using the automatic presser bar lifting lever. Thanks to this feature, the process of joining leather and heavy-weight sponges, which are usually used as materials for expensive sofas, can be carried out with ease.



### Eccentricity of the feed driving cam is adjustable.

Adjustment of the eccentricity of the feed driving cam has been enabled. As a result, the sewing machine is able to perform sewing with the feed that is best-suited to the material and thread used. It is no longer necessary to prepare other subclass model sewing machines.



### The upper and lower feed ratio is adjustable

The upper and lower feed ratio can be changed only by the adjustment of the lower feed amount without changing the upper feed amount, thereby preventing material slippage.



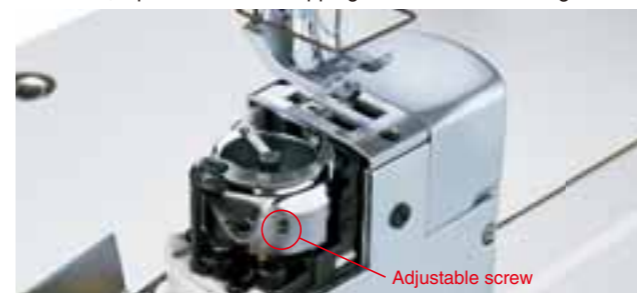
## Excellent operability by the new mechanism

### New mechanism of thread trimmer

Thread trimming can be stable even at the maximum 12mm sewing length.

### Walking-foot/presser-foot alternating vertical movement mechanism prevents irregular stitches

The hook which can be adjusted with screw amount of needle guard contact to needle. The needle guard can be easily adjusted. Therefore, it prevents stitch skipping and wear of hook edge.



### New lubrication system

Oil does not flow backwards by a valve system. Therefore, oil can be supplied certainly even low speed. Thanks to the stable lubrication to the hook, it produces beautiful seams.



### Double tension provided as : standard

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.

### Multi-functional 6-string switch (with automatic thread trimmer)

Single or Double can be set easy through Multi-functional 6-string switch, regarding the machine with trimmer. (Available for more thick material) In addition to the one-touch type reverse feed switch, a multi-functional 6-string switch is also provided. Changeover of the amount of the alternating vertical movement of the walking foot and the presser foot and changeover of the stitch length can be done simply with this one push.



### New bobbin thread spool device

New bobbin thread spool device is no necessity of rolling thread manually.



## Subclass

### PLC-2760L

2-needle, Post-bed, Unison-feed, Lockstitch Machine with Vertical-axis Large Hook (Thick-thread type)

Thanks to the hook, thread-take up and gauges exclusively designed for PLC-2760L, the machine can sew with thread count up to #6. The machine is provided with the exclusive top and bottom feed locus ideal for sewing with thick-thread.



PLC-2760L

### PLC-2765

2-needle, Post-bed, Unison-feed, Lockstitch Machine with Vertical-axis Large Hook (Organized split needlebars type)

With its organized split needlebars, the machine produces well-balanced topstitch-seams even at the corners of materials such as sofas.



PLC-2765

# OPTION

## Suspended ruler H152

| Description                   | Parts No.      |
|-------------------------------|----------------|
| Suspended ruler (asm.) H152   | MAH-152010A0   |
| Suspended ruler adapter plate | 40112214       |
| Screw                         | SM6051402TP x2 |
| Screw                         | SM6061402TP x2 |

## Knee switch (asm.)

| Description        | Parts No.      |
|--------------------|----------------|
| Knee switch (asm.) | 40025036       |
| Screw              | SK3514000SC x2 |

## Combination of the machine head specifications and optional devices at the time of delivery

- ① AK device kit : [40138572]
- ② BT/DL device kit (with hand switch) : [40138898]
- ③ AK/BT/DL device kit (with hand switch) : [40138573]

|            | Machinen-head mounted device (at the time of delivery) |           |           |             | gauge size (mm) | Optional (possible to retrofit) devices |
|------------|--|-----------|-----------|-------------|-----------------|---|
|            | AK device  | BT device | DL device | Hand switch |                 |   |
| PLC-2710   | —  | —         | —         | —           | —               | ① or ③                                  |
|            | ○  | —         | —         | —           | —               | ②                                       |
|            | ○  | ○         | ○         | ○           | —               | —                                       |
| PLC-2710-7 | ○  | ○         | ○         | ○           | —               | —                                       |
| PLC-2760   | —  | —         | —         | —           | 6/8/10/12       | ① or ③                                  |
|            | ○  | —         | —         | —           | 6/8/10/12       | ②                                       |
|            | ○  | ○         | ○         | ○           | 6/8/10/12       | —                                       |
| PLC-2760-7 | ○  | ○         | ○         | ○           | 6/8/10/12       | —                                       |

## List of gauge components

### 1-needle

| Part       | Throat plate | Feed dog | Presser foot (asm.) | Walking foot (asm.) | Feed Lever base cover | Side cover F (asm.) | Side cover A (asm.) |
|------------|--------------|----------|---------------------|---------------------|-----------------------|---------------------|---------------------|
| PLC-2710   | ●            |          | ●                   | ●                   | ●                     | ●                   | ●                   |
| PLC-2710-7 |              | ●        | ●                   | ●                   | ●                     | ●                   | ●                   |
| Shape      |              |          |                     |                     |                       |                     |                     |
| Part No.   | 40130068     | 40130067 | 40130061            | 10712552            | 10711653              | 40129979            | 40134098            |

### 2-needle

| Part       | Throat plate |          |          | Feed dog |          | Presser foot (asm.) |
|------------|--------------|----------|----------|----------|----------|---------------------|
| PLC-2760   | ●            |          |          |          |          | ●                   |
| PLC-2760-7 |              | ●        |          |          |          | ●                   |
| PLC-2760L  |              |          | ●        |          |          | ●                   |
| PLC-2765   | ●            |          |          | ●        |          | ●                   |
| Shape      |              |          |          |          |          |                     |
| Part No.   | 6mm          | 40131017 | 40130927 | —        | 40130925 | —                   |
|            | 8mm          | 40131016 | 40130908 | —        | 40130907 | —                   |
|            | 10mm         | 40130065 | 40130064 | 40130066 | 40130062 | 40130063            |
|            | 12mm         | 40131018 | 40130928 | —        | 40130926 | —                   |

| Part       | Presser foot of right (asm.) | Presser foot of left (asm.) | Presser foot with a center guide (asm.) | Center guiding walking foot | Side cover (asm.) |
|------------|------------------------------|-----------------------------|---|-----------------------------|-------------------|
| PLC-2760   | ●                            |                             | ●                                       | ●                           | ●                 |
| PLC-2760-7 |                              | ●                           | ●                                       | ●                           | ●                 |
| PLC-2760L  |                              |                             | ●                                       |                             | ●                 |
| PLC-2765   | ●                            | ●                           | ●                                       | ●                           | ●                 |
| Shape      |                              |                             |   |                             |                   |
| Part No.   | 6mm                          | —                           | —                                       | 40038810                    | 40038854          |
|            | 8mm                          | 40062043                    | 40062041                                | 40038808                    | 40038852          |
|            | 10mm                         | 23023856                    | 23021355                                | 40038806                    | 40038850          |
|            | 12mm                         | —                           | —                                       | 40038802                    | 40038848          |

# 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)

PLC2710S

| Pneumatic auto-lifter  | Code | Device                       | Code   |
|------------------------|------|------------------------------|--------|
| Not provided           | /    | Not provided                 | /      |
| AK (Pedal switch type) | B    | With BT device and DL device | /BT/DL |

\* /BT/DL type can applied only for head with AK

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

PLC2710S70BB

| Pneumatic auto-lifter  | Code |
|------------------------|------|
| AK (Pedal switch type) | B    |

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

| Specifications    | Code | Presser foot        | Code |
|-------------------|------|---------------------|------|
| Standard          | S    | With a center guide | A    |
| Thick-thread type | L    |                     |      |

PLC2760   A

| Needle gauge | Code | Pneumatic auto-lifter  | Code | Device                       | Code   |
|--------------|------|------------------------|------|------------------------------|--------|
| 6mm          | B    | Not provided           | /    | Not provided                 | /      |
| 8mm          | C    | AK (Pedal switch type) | B    | With BT device and DL device | /BT/DL |
| 10mm         | D    |                        |      |                              |        |
| 12mm         | E    |                        |      |                              |        |

\* /BT/DL type can applied only for head with AK  
\* In the case where L (Thick-thread type) is selected for the specification category, the needle gauge D (10mm) is only applicable.

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

PLC2760S  A70BB

| Needle gauge | Code | Presser foot      | Code | Pneumatic auto-lifter  | Code |
|--------------|------|-------------------|------|------------------------|------|
| 6mm          | B    | With center guide | A    | AK (Pedal switch type) | B    |
| 8mm          | C    |                   |      |                        |      |
| 10mm         | D    |                   |      |                        |      |
| 12mm         | E    |                   |      |                        |      |

### 2-needle, organized split needlebars type (without automatic thread trimmer)

| Presser foot      | Code |
|-------------------|------|
| With center guide | A    |

PLC2765S  A

| Needle gauge | Code | Pneumatic auto-lifter  | Code | Device                       | Code   |
|--------------|------|------------------------|------|------------------------------|--------|
| 8mm          | C    | Not provided           | /    | Not provided                 | /      |
| 10mm         | D    | AK (Pedal switch type) | B    | With BT device and DL device | /BT/DL |

\* /BT/DL type can applied only for head with AK

## Control box

SC922B

| Power supply                               | Code |
|--|------|
| Single-phase 100~120V                      | S    |
| 3-phase 200~240V                           | D    |
| Single-phase 200~240V (for general export) | K    |
| Single-phase 200~240V (for ce)             | N    |
| Single-phase 200~240V (for china)          | U    |

## Panel

CP18C  
CP180C

● To order, please contact your nearest JUKI distributor.

# SPECIFICATIONS

| Model name                                     | PLC-2710  | PLC-2710-7                                   | PLC-2760                                       | PLC-2760-7                                   | PLC-2760L                                | PLC-2765                                      |
|--|---|--|--|--|--|---|
| Type   | 1-needle  |  |  | 2-needle                                     |  |   |
|  | without automatic thread trimmer (V-belt type)  | with automatic thread trimmer (Direct-drive) | without automatic thread trimmer (V-belt type) | with automatic thread trimmer (Direct-drive) | thick-thread type (V-belt type)          | organized split needlebars type (V-belt type) |
| Max. Sewing speed                              | 2,500sti/min  |  |  |  | 2,000sti/min                             | 2,500sti/min                                  |
| Needle   | 135×17<br>Nm100~180<br>Standard<br>Nm140  |  |  |  | 135×17<br>Nm140~200<br>Standard<br>Nm200 | 135×17<br>Nm100~180<br>Standard<br>Nm140      |
| Thread   | TEX 50~167  |  |  |  | #8~#0                                    | TEX 50~167                                    |
| Max. stitch length                             | 12mm (forward / backward)   |  |  |  |  |   |
| Stitch adjusting method                        | 1 pitch dial  | 2 pitch dial                                 | 1 pitch dial                                   | 2 pitch dial                                 | 1 pitch dial                             | 1 pitch dial                                  |
| Thread take-up                                 | Link type   |  |  |  |  |   |
| Automatic reverse feed function                | Lever type  | Pneumatic type                               | Lever type                                     | Pneumatic type                               | Lever type                               | Lever type                                    |
| Needle bar stroke                              | 40mm  |  |  |  |  |   |
| Hook   | Vertical-axis 2.0-fold capacity hook (latch type)   |  |  |  |  |   |
| Lift of the presser foot                       | By hand: 10mm<br>Auto: 20mm   |  |  |  |  | By hand: 10mm<br>Auto: 18mm                   |
| Alternating vertical movement                  | 1~9mm   |  |  |  |  |   |
| Alternating vertical movement adjusting method | Dial  |  |  |  |  |   |
| DL device                                      | Option  | Provided as standard                         | Option   | Provided as standard                         | Option                                   | Option  |
| Safety mechanism                               | Provided as standard  |  |  |  |  |   |
| Bobbin thread winder                           | Built in the machine arm  |  |  |  |  |   |
| Bottom-feedmicro-adjustment mechanism          | Provided as standard  |  |  |  |  |   |
| Lubrication                                    | Automatic (Tank system)   |  |  |  |  |   |
| Distance from needle to machine arm            | 347mm   |  |  |  |  |   |
| Post height                                    | 170mm   |  |  |  |  |   |
| Knee-lifter                                    | Provided as standard  | —  | Provided as standard                           | —  | Provided as standard                     | Provided as standard                          |
| Auto-lifter                                    | Option  | Provided as standard                         | Option   | Provided as standard                         | Option                                   | Option  |
| Weight of the machine head                     | 76kg  | 81kg   | 79kg   | 84kg   | 79kg                                     | 80kg  |
| Power requirement/<br>Power consumption        | Single-phase 100~120V / 200~240V,<br>3-phase 200~240V / 193VA (with automatic thread trimmer) |  |  |  |  |   |
| Air consumption                                | —   | 0.1dm <sup>3</sup> /min (ANR)                | —  | 0.1dm <sup>3</sup> /min (ANR)                | —  | —   |

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

|                          |   |
|--------------------------|---|
| <b>JUKI ECO PRODUCTS</b> | <p>The PLC-2700 Series is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.</p> <ul style="list-style-type: none"> <li>● This sewing machine reduces power consumption by 28% as compared with the conventional models.</li> <li>● As compared with the conventional model, PLC-2700 Series reduces noise by 6.0 dB.</li> <li>● 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.</li> </ul> <p>For details of JUKI ECO PRODUCTS, refer to: <a href="http://www.juki.co.jp/eco_e/index.html">http://www.juki.co.jp/eco_e/index.html</a></p> <p><small>*The RoHS Directive is an EU Directive limiting the use of 6 hazardous substances (lead, hexavalent chromium, mercury, cadmium, PBB and PBDE) in electrical and electronic equipment.<br/>The Juki Green Procurement Guideline is the voluntarily established criteria to eliminate not only the aforementioned six substances, but also other ones which also adversely affect the environment.</small></p> |
|--------------------------|---|

※Above-mentioned JUKI ECO PRODUCTS is data of PLC-2760S-7 (with automatic thread trimmer).



**JUKI CORPORATION HEAD OFFICE**  
 Juki Corporation operates an environmental management system to promote and conduct the following as the company engages in the research, development, design, sales, distribution, and maintenance of industrial sewing machines, household sewing machines, industrial robots, etc., and in the provision of sales and maintenance services for data entry systems:

- (1) The development of products and engineering processes that are safe to the environment
- (2) Green procurement and green purchasing
- (3) Energy conservation (reduction in carbon-dioxide emissions)
- (4) Resource saving (reduction of papers purchased, etc.)
- (5) Reduction and recycling of waste
- (6) Improvement of logistics efficiency (modal shift and improvement of packaging, packing, etc.)

**JUKI**  
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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.  
 \* This catalogue prints with environment-friendly soyink on recycle paper.