

**JUKI**

# DDL-900A

Direct-drive, High-speed, 1-needle, Lockstitch Machine  
with Automatic Thread Trimmer ("DRY" Oil Pan System)



## *"DRY" Oil Pan System*



# DDL-900A

Direct-drive, High-speed, 1-needle, Lockstitch Machine  
with Automatic Thread Trimmer ("DRY" Oil Pan System)

Max. sewing  
speed  
**5,000**  
sti/min

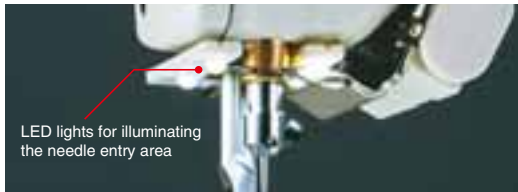
**E Thread trimming speed and hook adjustment**

The thread trimming speed is 300sti/min, which is the highest among the equivalent class models. This speed is 1.5-fold faster than the conventional model, there by contributing to increased productivity. In addition, a hook adjustment hole has been provided to enable fine adjustment of the hook.



**F Provided as standard with LED lighting which illuminates the needle entry area**

Since the LED lights cast their light exactly downward to illuminate the needle entry area from the right and left sides of the needle bar, sewing work can be carried out more easily as compared with the use of light from one direction. In addition, the illuminance of the LED lights can be adjusted in five steps and can be used as an auxiliary light for work



**G Highly-functional touch-back switch**

JUKI's sewing machine which is provided with a thread trimmer is also provided as standard with the renowned needle breakage preventing function. The main shaft angle control works to prevent needle breakage even when the touch-back switch is used to perform reverse feed stitching. The height of the touch-back switch is adjustable according to the items to be sewn.



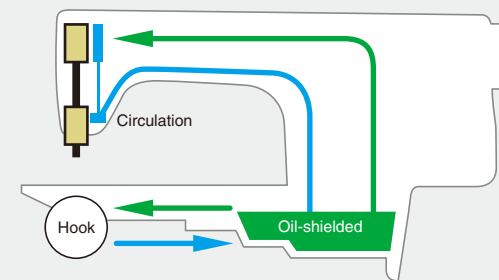
# High-speed lockstitch machine with an automatic thread trimmer which is provided with a new dry oil pan system

The sewing machine which integrates the direct-drive motor, control box and control panel into a monolithic body is now provided with a new dry oil pan mechanism. It not only eliminates oil stains on sewing products, but also further enhances workability and maintainability.



**NEW "DRY" Oil Pan System (oil pan which does not use oil)**

In order to prevent oil stains on sewing products, the sewing machine has adopted the "DRY" Oil Pan System which is integrated into the sewing machine bed. The needle bar is lubricated with a smaller quantity of oil as compared with the conventional model. In addition, oil which externally splashes is shielded by the newly-developed frame oil recovery mechanism and automatic oil circulation mechanism. The new structure contributes to the achievement of the maximum sewing speed of 5,000sti/min and also to increased productivity.



**H Highly-functional control panel**

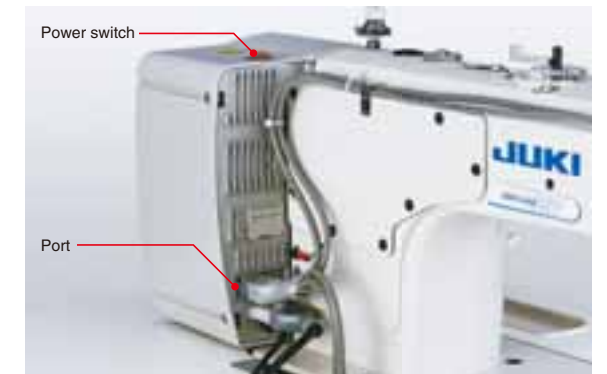
The control panel which belongs equivalently to the highly-functional CP-180 family is built into the control box. With this panel, various sewing data ranging from the sewing speed to the production support functions can be adjusted. In addition, the control panel has been newly provided with a password lock function to restrict panel operation. The machine may be used simply by entering any given passcode number.



Provided with a password lock function

**I Space-saving control box**

The compact control box which is integrated into the sewing machine has adopted the external port system equipped with a power switch. This facilitates setup of the sewing machine and any retrofitting of accessory device(s).



**J Compact and small energy-saving direct-drive motor**

In comparison with the conventional V-belt driven sewing machine, the sewing machine driven by the direct-drive motor saves power consumption by 25%. Furthermore, the new retry control helps increase the material penetrating power of the needle by approximately 10%.

**A Elimination of oil stains on sewing products**

<Adoption of a dry oil pan>

Oil is stored in the oil-shielded made of highly rigid aluminum die cast which is integrated into the machine head and provides increased cooling performance. The new oil-shielded has increased sealing performance as compared with a plastic oil tank and effectively prevents oil leakage and tank breakage. Furthermore, as the tank has a capacity of 450cc, which is equivalent to that of the conventional model, the frequency of oil replenishing does not change. These features ensure a reliability of mechanical parts as high as that of the conventional model.



**Underside cover**

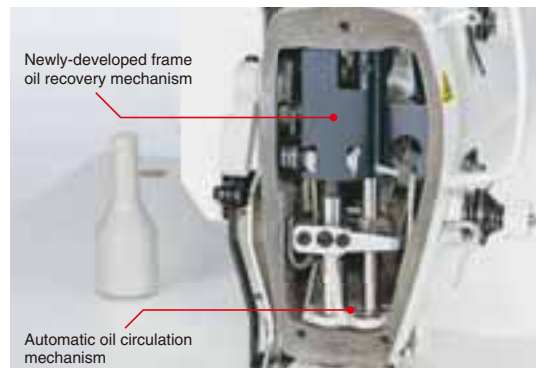
Both the internal and external configurations of the underside cover are smooth with no projections or depressions to facilitate maintenance and cleaning.



**B Elimination of oil stains on sewing products**

<Prevention of oil splashes from the frame>

The frame mechanism employs a market-proven forced lubricating method and prevents oil from splashing outside through the newly added frame oil recovery mechanism and automatic oil circulation mechanism, thereby eliminating oil stains on sewing products.



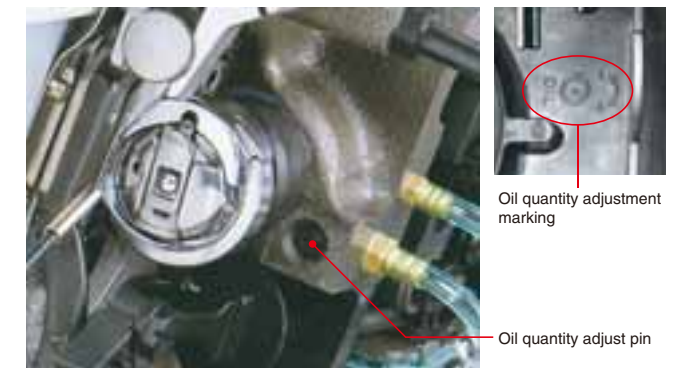
**C Oiling and oil-quantity checking can be done with ease**

The oil hole is located on the top of the machine arm. The oil quantity can be easily checked with the oil gauge mounted on the top of the bed without tilting the machine head.



**D Broadened range of adjustment of the hook oil quantity**

The adjustable range of the oil quantity in the hook has been broadened to enable fine adjustment. In addition, the bottom of the underside cover contains an oil-quantity adjustment marking which helps prevent oiling errors. As a result, main tainability is improved.



## OPTION



**Needle thread clamp device (asm.): 40139555**

The device clamps the needle thread and draws it under the material at the beginning of sewing. The needle thread clamp device works to reduce the size of thread tangling in on the wrong side of the material. This expands the area around the needle entry, thereby allowing the use of various gauge components.



**Non-lubricated hook (asm.): 22890206**  
**Non-lubricated hook (asm.): 22890404 (provided with the needle guard)**

Oil stains on sewing products can be totally prevented by using the dry hook made of plastic which has a unique race surface.

\*Max. sewing speed: 4,000 sti/min  
\*To use the non-lubricated hook, the following two parts are separately needed.

**Hook driving shaft detent plug screw: 11079506**  
**O ring: R0036080200**



**Auto lifter device (asm.) AK85B: 40140416**

This device automatically lifts the presser foot.



**Non-rotating bobbin**

The non-rotating bobbin helps prevent irregular stitches due to a certain sewing speed and bobbin thread tension variation due to a change in the bobbin thread remaining amount. Since the bobbin supplies the bobbin thread without rotating, the bobbin will not run idle.

\*The hook, bobbin and bobbin case are all specifically-designed items for the non-rotating bobbin.

## SPECIFICATIONS

Model name	DDL-900A
Application	From light to medium-weight
Lubrication	"DRY" Oil Pan System
Max. sewing speed	5,000sti/min
Max. thread trimmer speed	300sti/min
Max. stitch length	4mm
Needle bar stroke	30.7mm
Lift of the presser foot	By hand: 5.5mm / By knee: 13mm
Needle	DB×1 (#14) #9~#18 / 134(Nm90)
Lubrication oil	JUKI Machine Oil 1 or 7 (equivalent to ISO VG7)
Direct motor	400W
Power requirement	Single-phase 200V~240V
Power consumption	250VA
Total weight	Machine head: 36kg

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

## WHEN YOU PLACE ORDERS

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

### Machine head

Wiper and one-touch type reverse feed		Code
Wiper	One-touch type reverse feed	
Not provided	Provided	0B
Provided	Provided	WB

**DDL900AS**   **K**

Application	Code	Power supply	Code
From light to medium-weight	S	Single-phase 200V~240V (for General Export, China)	K

<b>JUKI ECO PRODUCTS</b>	<b>The DDL-900A is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.</b>
	<p>● <b>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.</b></p> <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. 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>



Registered Organization : JUKI CORPORATION Head Office  
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.

**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.