

AW-3S

Automatic Bobbin Thread Wind-and-Feed Device (Retrofit Kit for AMS-EN Series Shuttle Hook Type / PLK-J Series Double-size Rotary Hook Type)



1 Increasing productivity!

In case of AMS-22*EN /PLK-J Series without AW-3S, approximately 30 seconds are generally required every time the operator changes the bobbin thread manually. On the other hand, In case of AMS-22*EN /PLK-J Series installed with AW-3S, the bobbin

thread is automatically changed while the operator picks up the sewn product and places a new material to be sewn on the sewing machine, thereby eliminating the downtime due to manual replacement of the bobbin thread. As a result, productivity is increased. Considering that bobbin thread replacement has always been an obstacle to automatization, AW-3S opens up further possibilities for automatization.

	AMS221EN • 224EN Series/PLK-J Series	
	Without AW-3S	With AW-3S
Time required to change the bobbin thread	Approx.30 seconds/time	None
Number of times to change the bobbin thread per day	Approx. 60 times/day	None
Time required to change the bobbin thread per day	Approx.30 minutes/day	None



* The number of times to change the bobbin thread varies in accordance with sewing conditions. Working hours are eight hours per day.

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2 Consistent seam quality !

Bobbin thread replacement is carried out frequently. In general, the operator manually changes the bobbin. By retrofitting AW-3S to the sewing machine, not only the bobbin can be automatically changed before it runs out of thread, but

also an empty bobbin can be wound with thread during sewing. The operator is able to concentrate on sewing without worrying about the remaining amount of the bobbin thread.

In addition, the operator neither need to worry about the timing of changing the bobbin nor have to replace the bobbins by himself/herself.

Moreover, only two bobbin cases are used alternately in repetition. It means that uniform bobbin thread tension and consistent seam quality are achieved without requiring additional adjustment of the bobbin thread tension.



The image is a shuttle hook type bobbin case

Reduction of the bobbin thread consumption

Number of stitches memory mode: Automatic

When loading a sewing pattern, AW-3S automatically calculates the bobbin thread amount to be consumed to sew the next sewing pattern and determines whether the sewing machine can complete the sewing of the pattern with the bobbin thread amount remaining before the start of sewing. If the remaining amount of the bobbin thread is not enough for sewing the loaded sewing pattern, AW-3S will automatically change the bobbin to another bobbin that is fully wound with thread. (AW-3S is able to automatically wind the preset amount of thread on a bobbin.) In addition, AW-3S gradually adjusts the length of thread remaining on the bobbin that has to be removed to an appropriate length.

 ${f 4}$ High operability and workability

Since AW-3S automatically feeds the bobbin thread, it is no longer necessary for the operator to get under the machine to manually change the bobbin thread. This contributes to the reduction of the operator's fatigue. With AW-3S, the operator is able to concentrate on sewing work without worrying about the remaining amount of the bobbin thread. In addition, AW-3S allows even a new operator who has just joined the company to carry out sewing work immediately.

Options

AMS	 Auxiliary cover set for throat plate to be to AW-3SB (for the 2516) < Auxiliary cover for throat plate, screw, washed 		Part No. 40262117 If you want to attach the automatic bobbin thread feeding device to AMS-221EN2516, please place an order for the aforementioned parts together with AW-3SB (for AMS-221EN).	
	Bobbin thread remaining amount detecting device		Part No. 40256480 A bobbin that supports bobbin thread remaining amount detecting device is not included.	
	 Bobbin compatible with bobbin thread remaining amount detecting device 		Part No. 40249633	
	Large-winding bobbin		Part No. 40262169 Bobbin thread remaining amount detection device (Option) is not supported.	
PLK	DL // • Chuck jig		Part No. GAW02541000	
FLK	 Lubrication hook asm 		Part No. 40282720	
AMS/PLK	• Mounting iig	for AMS	Part No. 40256479	
	Mounting jig for PLK		Part No. 40285309 (with countersunk screw)	

• The mounting jig is not included with AW-3 and must be purchased separately.

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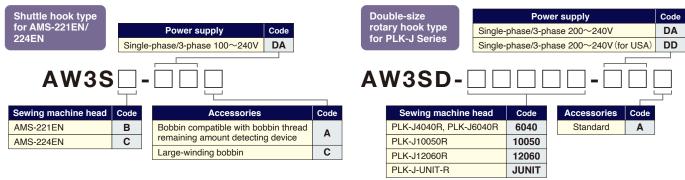
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SPECIFICATIONS

Device	AW-3S		
Sewing machine head to which the device is installed	AMS-221EN / AMS-224EN	PLK-J Series	
Applicable bobbin and bobbin case	Bobbins and bobbin cases for shuttle hook	Bobbins and bobbin cases for double-size rotary hook	
Thread	#5~#30, 135~45 (TEX), 020~060 (TKT)		
Applicable types of thread	Tetoron thread, nylon thread		
Remaining thread removal operation, bobbin winding and threading operations	Automatic (while the sewing machine is in operation)		
Input device	IP-420 (for AMS-221EN / AMS-224EN)	PAL (for PLK-J)	
Power requirement	Single-phase/3-phase 100~240V	Single-phase/3-phase 200~240V	
Power consumption	100 VA		
Compressed air	0.5 Mpa		
Max air consumption	156dm3 (ANR)/min		

WHEN YOU PLACE ORDERS

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





https://www.juki.co.jp/en

JUKI CORPORATION

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The AW-3S is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.

Protecting the environment of 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 thirts?//www.jUki.co.jpercent/will.ki.co.jpercent/will

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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.
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 ◆Paper from responsible sources FSC™ C001712
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