

# AMS-224EN4530R

Computer-controlled Cycle Machine with Input Function  
(Full-rotary hook type)

# JUKI

## AMS-224EN4530R / AW-3

(With Automatic bobbin-thread winding and feeding device)



This is the rotary hook type model which has been developed based on the AMS-224EN Series.



AMS-224EN-HS4530R

# AMS-224EN4530R Series



## Rotary hook

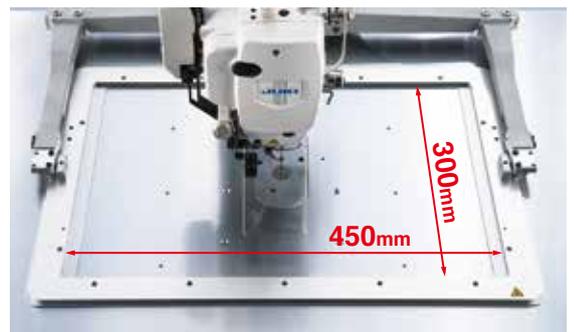
In addition to the shuttle hook type model which is favorably accepted by users, the rotary hook type model is newly developed. The rotary hook contributes to the achievement of soft-texture beautifully-finished seams which are required for bags and leather products. In addition, inner hook stopper is adjustable not only laterally but also longitudinally, thereby enabling accurate positioning of the bobbin case according to the needle count.



## Sewing area

**The cycle machine, which has a wider sewing area, achieves an improved seam quality, increased productivity and easier operation.**

The machine not only achieves higher productivity due to instantaneous increases/decreases in sewing speed at the beginning /end of sewing and increased speed of thread trimming, but also achieves a flexible responsiveness to materials to promise enhanced seam quality due to JUKI's unique active tension and programmable intermediate presser.



## Hook cover open /close sensor

Thanks to the adoption of the hook cover open/close sensor, the hook cover will never be left opened.

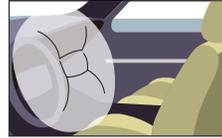
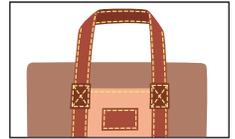
As a result, a malfunction that the operator unintentionally touch the hook during machine running.

※This sensor is not adopted with AW-3.



The automatic bobbin-thread winding and feeding device has been developed for the sewing machine as an option. With this device, the sewing machine responds to the sewing of various kinds of materials and stitch types while achieving an increased productivity.

## Major applications



The sewing machine is used for many different applications where the machine takes advantage of its large sewing area, such as attaching handles to bags and pouches, attaching belts, sewing two or more small parts at a time, attaching parts to shoes and sports shoes (a pair of right and left shoes) and sewing automotive interiors (car seats and air bags).

## AW-3 Automatic bobbin-thread winding and feeding device

The AMS-224EN4530R has adopted the rotary type hook. The automatic bobbin-thread winding and feeding device (AW-3) which is suited to the sewing of large articles such as car seats is optionally available.

In the case of sewing large articles, etc, a large quantity of bobbin thread is consumed during sewing of one article. This means that replacement of bobbin frequently occurs. Since the AW-3 changes the bobbin automatically before the bobbin-thread runs out and bobbin-thread is wound during sewing, the operator is able to concentrate on sewing without worrying about shortage of bobbin thread. In addition, only two bobbin cases are required for sewing. As a result, burdensome control of bobbin thread tension and bobbin-changing work are no longer required, thereby contributing to increased productivity.



AMS-224EN-HS4530RSW



Automatic bobbin-thread winding and feeding unit



Constant-quantity bobbin thread feeding mechanism

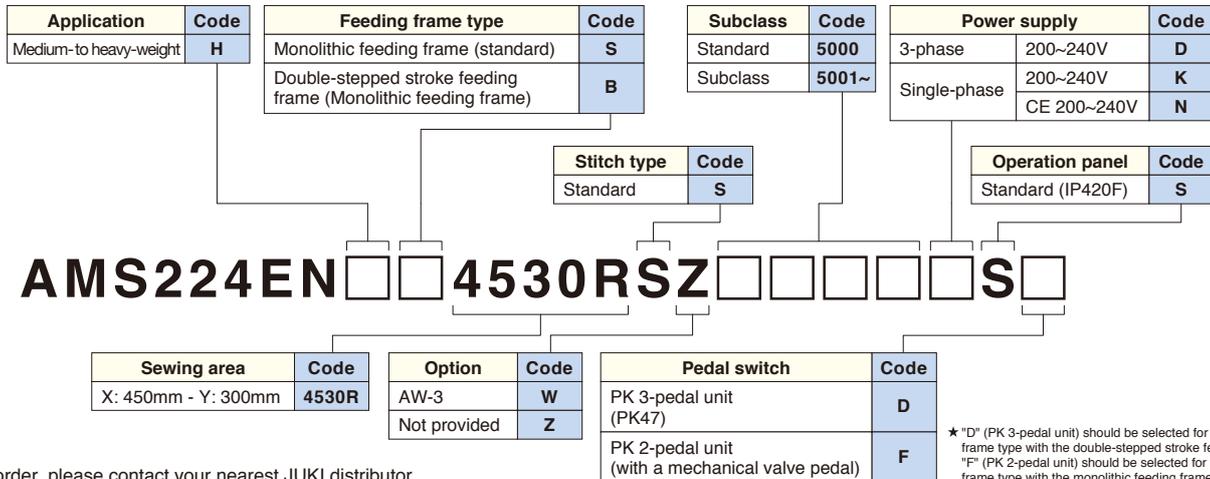
## SPECIFICATIONS

Model name	<b>AMS-224EN-HS4530R</b>
Application	Medium- to heavy-weight
Feeding frame type	Monolithic feeding frame (Pneumatic work clamp)    S : Standard    B : Double-stepped stroke feeding frame
Max. sewing speed	2,500sti/min* (stitch length 3mm or less)
Sewing area	450mm (X) x300mm (Y)
Settable stitch length	0.1~12.7mm (0.05mm step)
Needle bar stroke	41.2mm
Lift of the feeding frame	Max. 30mm
Lift / Stroke of intermediate presser	Lifting amount : 20mm / Stroke : Standard 4mm (0~10mm)
Variable lower position of the intermediate presser	Standard 0~3.5mm (max. 0~7.0mm)
Change in height of the intermediate presser	Stepless control by programming (controlled by a stepping motor)
Needle thread tension	Active tension (electronic thread tension control mechanism)
Needle thread breakage detecting device	Provided as standard
Needle thread clamp	Stepping-motor driven clamping on the underside of the throat plate
Prevention of the slip-off of thread at the beginning of sewing	Prevented by the needle thread clamp and active tension
Needle (at the time of delivery)	DPx17 (#18) (135x17 Nm110)
Thread	#50~#2
Hook	Double-capacity rotary hook
Sewing machine motor	Compact AC servomotor (direct-drive system)
Power requirement Power consumption	Single-phase, 3-phase 200~240V / 550VA
Compressed air / Air consumption	0.5~0.55MPa (Max. 0.55MPa) / 1.8dm <sup>3</sup> / min (ANR)

\*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:



● To order, please contact your nearest JUKI distributor.

<b>JUKI ECO PRODUCTS</b>	The AMS-224EN4530R is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.
	<p>● 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.</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>



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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.