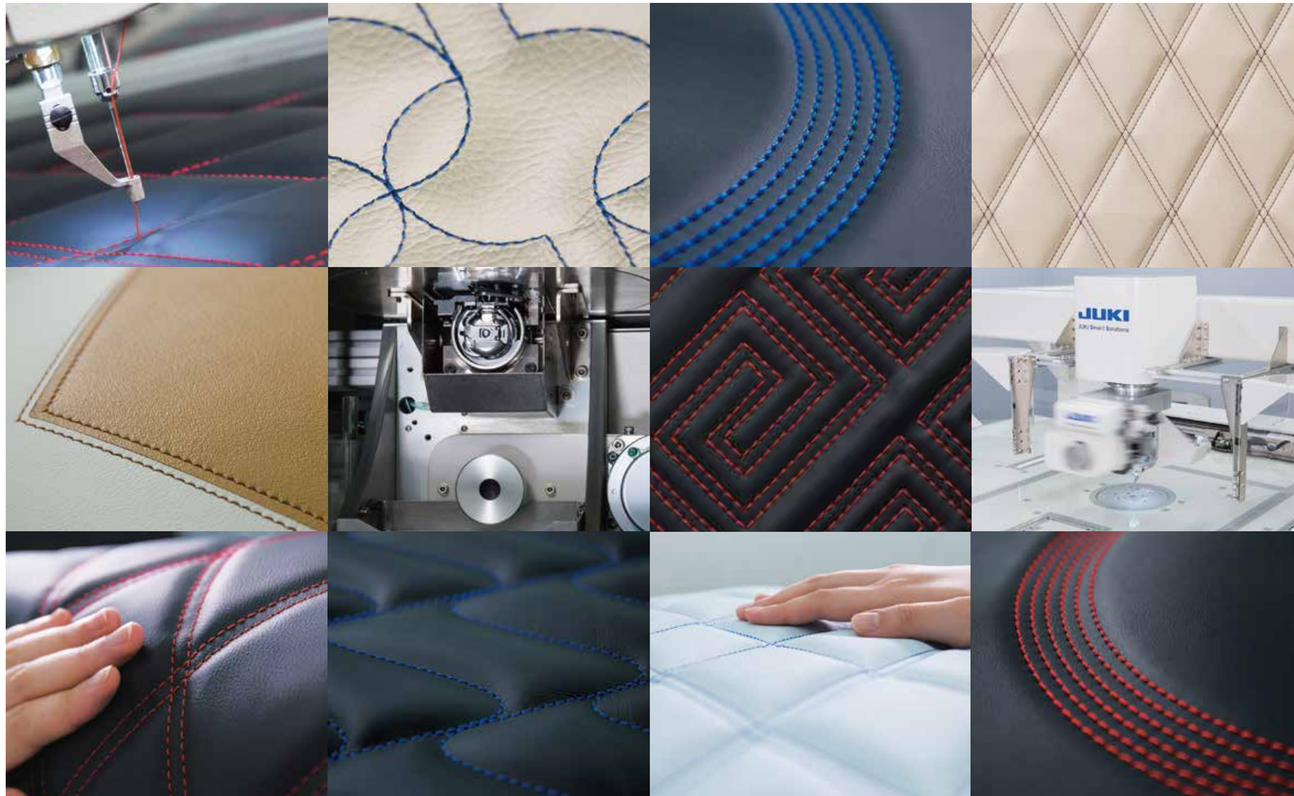
# AMS-251 1-needle CNC sewing machine (head turning type)




**AMS-251 Special Site**

*https://www.juki.co.jp/industrial_e/newproducts/ams251_e/index.html*

* 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. May, 2017 (DZ)

| JUKI ECO PRODUCTS | AMS-251 is environmentally friendly product that cleared JUKI ECO PRODUCTS standard. |
|---|---|

JUKI ECO PRODUCTS

●The sewing machine compileswith the "JUKI Group Green Procurement Guidelines" on the use of hazadous substances, which is stricter than other restriction, such as those of the RoHS Directive.

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

＊The RoHS 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.

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JAB CM001 / JSA EMS ISO 14001 JSAE389 / UKAS MANAGEMENT SYSTEMS 089

Registered Organization :
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.

# Best stitches in 360°

## for Car Seats, Bags and Air Bags

JUKI is launching the "AMS-251"

its high-end 1-needle CNC sewing machine

provided with a machine-head-turning mechanism.

The new model guarantees high-quality

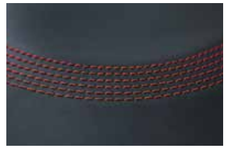
seams uniformly in every sewing direction.

Made in Japan

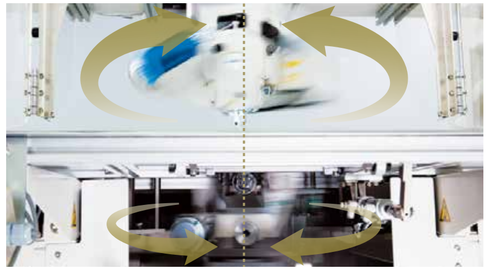
# *Feature*

## The machine-head-turning mechanism helps achieve high-quality seams uniformly in every sewing direction.

JUKI's unique synchronization technology guarantees stable control of the machine head, hook and feed mechanism, thereby creating the most favorable seams.



Draw smooth and uniform curves



## With its sewing area of "1,000 mm x 600 mm" the AMS-251 is best suited to the sewing of decorative stitches and large-size products.

The AMS-251 is ideally suited to the sewing of decorative stitches on car seats and luxury bags as well as air bags and other large-size products with zero design tolerance for irregular stitching.

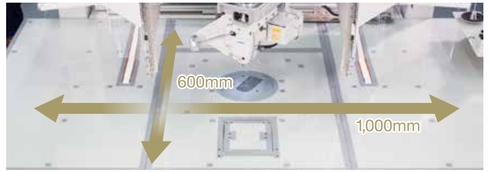
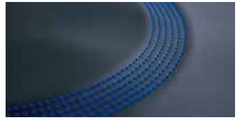



Image is for illustration purposes.

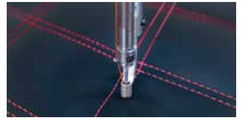
# *Usability*

## Multiple uses guarantee efficient work and quality improvement



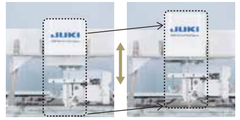
### Machine head turning　Slip ring system*1

Slip ring system has been adopted to the new machine-head turning mechanism. As a result, limitless turning of the machine head is enabled to allow the sewing machine to sew complicated patterns continuously.



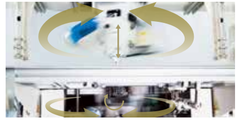
### Machine head turning　Cutting point needle

The cutting point needle can be used regardless of the sewing direction since the sewing machine constantly faces the sewing direction at its front.



### Machine head lifting function

Since thick materials, clamps, palettes with protrusions can be used, design will be expanded.



### Multi-axis control technology

The multi-axis control technology used by JUKI are applied to simultaneously control six axes*2.

### Horizontal-axis, 3 fold-capacity rotary hook

Adoption of the 3 fold-capacity hook helps reduce the frequency of bobbin replacement even when thick thread is used, thereby supporting sewing of large products.

### Operation

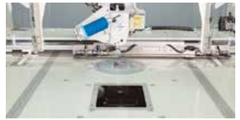
The IP420 for the existing AMS Series models has been adopted for the new AMS model. In addition, the existing sewing pattern input software "PM1" is also applicable.

### Safety cover

Opening and closing sensor is mounted to the turning-head cover and turning-hook cover to prevent the machine from starting when the cover(s) is opened and to automatically stop the machine if the cover(s) is opened while the machine is in operation.

### Start button

A 2-handed start button has been adopted for safe, accurate start up. In addition, unintentional start up of the machine is prevented.



### Bobbin replacement cover

Bobbin can be changed easily by opening the accessible cover without requiring the operator to reach under the machine to change the bobbin.

* 1　Rotating connector that is able to transmit power and electric signals from the stationary body to the rotating body
* 2　Machine-head turning、Hook turning、Main shaft、Hook driving shaft (hook)、X-axis feed、Y-axis feed

Image is for illustration purposes.

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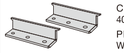
# Specification

## The best specifications achieve high-quality seams

| | |
|---|---|
| Application | Medium - Heavy |
| Sewing Area | 1,000 mm x 600 mm |
| Max Sewing Speed | 2,500 sti/min* |
| Needle (at the time of delivery) | DP x 17, #18 - 25 (#23) |
| Thread | Nm 60/3 - 20/3 |
| Hook | Rotary Hook, Horizontal-Axis, 3 fold-capacity |
| Head Liftable | 50 mm |
| Storage of pattern data | Main-body memory: Max. 33,000,000 stitches, 999 patterns (max. 50,000 stitches / pattern) |
| | External media: Max. 50,000,000 stitches, 999 patterns (max. 50,000 stitches / pattern) |
| Total weight | 950 kg |
| Dimensions | 2,400 mm (W) × 1,800 mm (D) × 1,600 mm (H) |

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

| | | |
|---|---|---|
| accessory parts |  CHUCK_BASE 40181516 × 2 pcs<br>PLAIN WASHER WP0410516SD × 6 pcs | SCREW SM5040855SN × 6 pcs |

## When you place orders

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

### 1-needle CNC sewing machine (head turning type)

※CNC:Computer Numerical Control

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | M | S | 2 | 5 | 1 | H | C | 1 | 0 | 0 | 6 | 0 | R | S | Z | Z | □ | S | H |

| | | | |
|---|---|---|---|
| 7 | Application | H | for medium to heavy weight materials |
| 8 | Palette Clamping Type | C | Standard |
| 9-13 | Sewing area | 10060 | X : 1,000mm Y : 600mm |
| 14 | Hook type | R | Rotary Hook |
| 15 | Stitch type | S | Lock stitch |
| 16-17 | Option | ZZ | Nothing |

| | | | | |
|---|---|---|---|---|
| 18 | Voltage of Control Box (MC-680) | D | USA / Japan / for Export | 3-phase 200V-240V |
| | | K | for Export | single-phase 200V-240V |
| | | N | for CE | single-phase 200V-240V |
| 19 | Panel | S | Standard (IP420) | |
| 20 | Start switch | H | 2 handed start switch | |

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