

It is available for a wide range of materials from thick leathers to composite materials such as carbon fiber. The sewing machine rotates in the  $\theta$  direction so that the stitching direction can be kept constant, which enables perfect stitching with two needles.



## Use



Air bag



Furniture



Car interior



Aircraft



Car seat



Ships

## Mechanical properties

1. **Stability** : the machine's head is divided into upper and lower parts to allow the machine to rotate in the  $\theta$  direction, which leads to perfect stitching with a constant stitch width.
2. **Trouble-free starting of sewing** : the thread cutter is divided into upper and lower parts so that operating troubles that could occur as sewing starts can be eliminated using a thread-holding mechanism.
3. **Applicability** : the rotary connector allows the  $\theta$  axis to rotate infinitely so that the machine can work properly, responding to any data given.
4. **Programmable in association with commercial CAD** : easy to convert/import externally prepared data.
5. **Maintainability** : maintenance can be performed at the opposite side of the home position.

## Specifications

<b>Sewing area (X×Y)</b>	600 × 600/mm	<b>Thread cutter</b>	Separate (upper and lower) thread cutters & needle-thread holder
<b>Stitch type</b>	2-needle lockstitch	<b>Data importing method</b>	External medium (SD memory card) : max. 10,000 patterns
<b>Maximum sewing speed</b>	2,000 rpm (stitch length of 3 mm or less)	<b>Sewing machine motor</b>	0.4 kw servo motor × 2
<b>Stitch pitch</b>	0.1 to 10 mm (in steps of 0.1 mm)	<b>Power/consumption</b>	Three-phase 200 V/7 KVA
<b>Maximum number of stitches</b>	20,000 per pattern	<b>Air pressure</b>	0.45~0.5 Mpa
<b>Upward movement of head</b>	Yes	<b>Machine size (L×W×H)</b>	1,500×2,000×1,800/mm