



Juki's new sewing station for the sewing of high quality and reliable safety seams in airbags through monitoring and documentation of given sewing parameters and sewing processes.



The safety of passengers is a concern for all automobile manufactures and the inclusion of airbags allows for greater protection in a collision. In case of an accident the airbags integrated in seat covers, door panels or car fittings have to break through in a specifically defined seam. This safety-relevant seam must be strong enough to resist stress under normal conditions but at the same time it must guarantee the unrestricted, accurate exit of the airbag if it is needed.

Constant Documentation of All Production Data:

Programmable labelling machine means consistent accurate information is maintained throughout the sewing process. Built in label editor ensure all needed data is captured. When sewing is completed a final label is printed and incorporated into the material to ensure the viability of the seam.



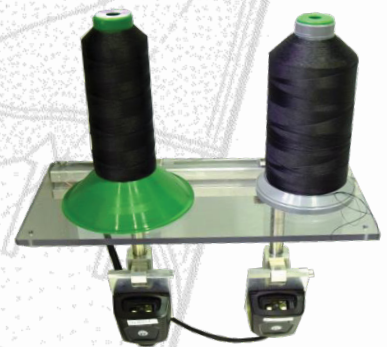
Permanent Monitoring of the Sewing:

Activity logs ensure the operator and specification of the materials involved in the sewing process are fully documented.

Sensors mounted throughout the machine allow for accurate monitoring of the most important perimeters: thread tension, bobbin/winding/needle thread, seam lengths.

Sensors log which thread is needed for the bobbin and automatically activate it.

The use of these sensors allows for incorrect components to be highlighted to the operator and documented.



Software Application:

- 1) Login is possible via manual code, bar code scan or RFID card (optional)
- 2) Easy to configure database of all important data
- 3) Integrated label editor
- 4) Easy to select sewing jobs with defined materials. All important materials can be seen permanent and the presence is controlled continuously by scanners and sensors.
- 5) Real time seam position. on display the system shows you in real time the sewing position in the seams. //Stitch by stitch real time display of thread tension values
- 6) Creation of sewing seam parameters and limits are fast and easily done
- 7) Final label scan after successful completion of airbag seam

