

APPLICATION SHEET

BOLSTER INSERT

CUT 'N' SEAL



■ The task

A bolster insert measuring 250x60 mm has to be cut out of flat raw material consisting of woven and non-woven layers and has to be finished with a 2 mm edge weld along the cut edge. In addition, the cut edge has to be sealed in order to prevent fraying.

■ The solution

With the ultrasonic cut 'n' seal process it is possible to cut a wide variety of shapes and sizes and simultaneously seal the cut edges. The wide edge welding can be achieved using a special 2-stage cut 'n' seal anvil system. The various required process parameters are stored in the unit's control system and are selected for the process using binary code.

■ The advantages

The ultrasonic vibrations generate a cutting effect and also generate heat which melts the edge areas and seals them. Using a 2-stage process it is possible to produce not only the sealed outer edge of the cut, but also an additional structured weld if this is required.



The application has been produced using a USP8000 welding system with appropriate 2-stage process tools.

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