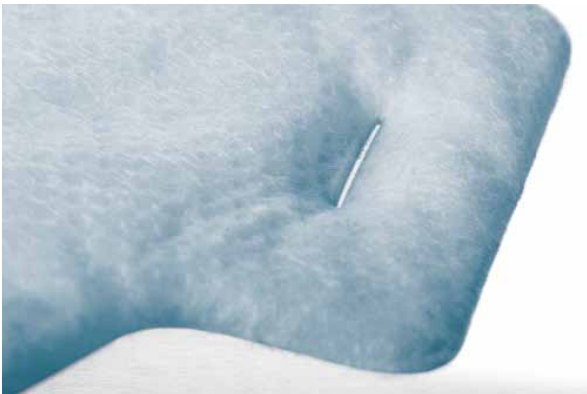


APPLICATION SHEET

BREATHING MASK

CUT 'N' SEAL



■ The task

The edge of the cut-outs for a breathing mask has to be sealed with a soft finish, firstly in order to ensure good wear comfort and secondly in order to prevent the non-woven material from fraying. A slot has to be inserted for fixing the rubber strap. The edge zone of that slot must be able to withstand the tensile stress caused by the rubber strap when the mask is worn.

■ The solution

Both operations, the cutting of the outer contour of the mask and the insertion of the two fixing slots for the rubber strap can be accomplished simultaneously with appropriate ultrasonic tools. For cutting the two slots two sprung knife inserts are integrated into the anvil device.

■ The advantages

When using the so-called cut 'n' seal process the cut edges of the outer contour of the mask and of the slot cut-outs is sealed during the cutting process. This ensures that the edges of the mask contours and of the two slots do not fray and remain soft for greater wearing comfort.



The application has been produced using a USP8000 welding system / the appropriate components in a bespoke system.

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