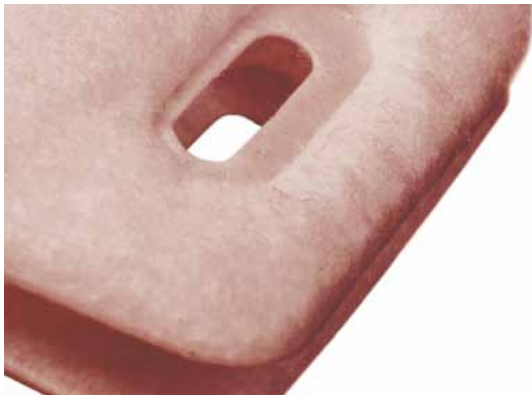


STRAP FIXING FOR BREATHING MASK



■ The task

A mechanically firm opening is required in a soft non-woven material for fixing the rubber strap of a breathing mask. The edge zone of the opening has to withstand the tensile force of the rubber strap when the mask is worn.

■ The solution

In the first step, the larger oval area is welded with ultrasound. This makes this zone of non-woven material firmer, and in the second step the oval opening is punched out using an ultrasonic process.

■ The advantages

The firmed-up welded area has sufficient strength to withstand the tensile force of the rubber strap. The ultrasonic process creates a neat and smooth edge to the cut-out opening. That is important because it prevents the rubber strap from being damaged and torn while the mask is worn.



The application has been produced using a USP750 welding system / the appropriate components in a bespoke system.

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