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Technology News
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Perfect solutions through:

New Unisepa specially developed for separating bone plates

The customer is a manufacturer of [bone plates](#) of between 40 and 80 mm in length.



Bone plates of various sizes were with [finished using](#) a variety of [ceramic media](#) and then separated in the [Unisepa](#) separating unit. Previously, separation had been carried out by hand in a time-consuming process. The key design specification for this Unisepa unit was a separation rate of 95% for bone plates. The customer's requirements were fulfilled as follows:

The mixture of abrasive media and workpieces flows from the hopper onto the screen (Fig. 1) and is then transported over the perforated sheet by means of vibration.

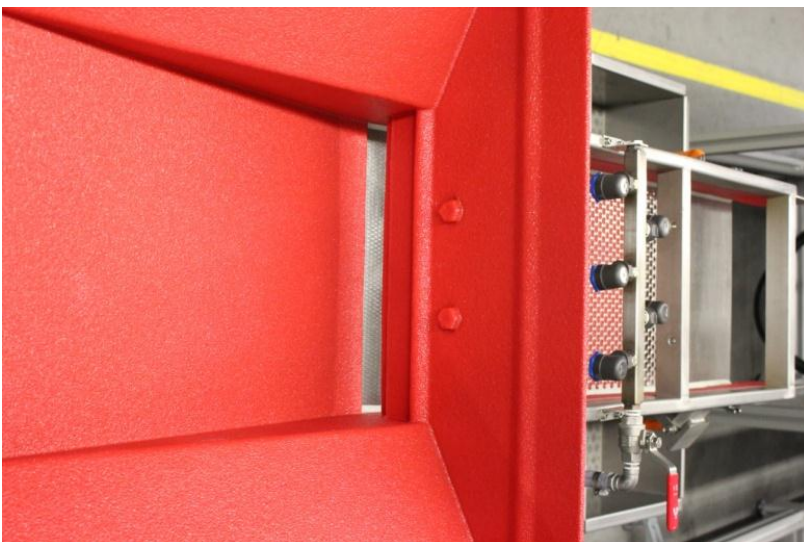


Fig. 1



During this process, the grinding [media](#) falls through the screen. Any media clinging to the workpieces is rinsed off by means of a spray (Fig. 2).

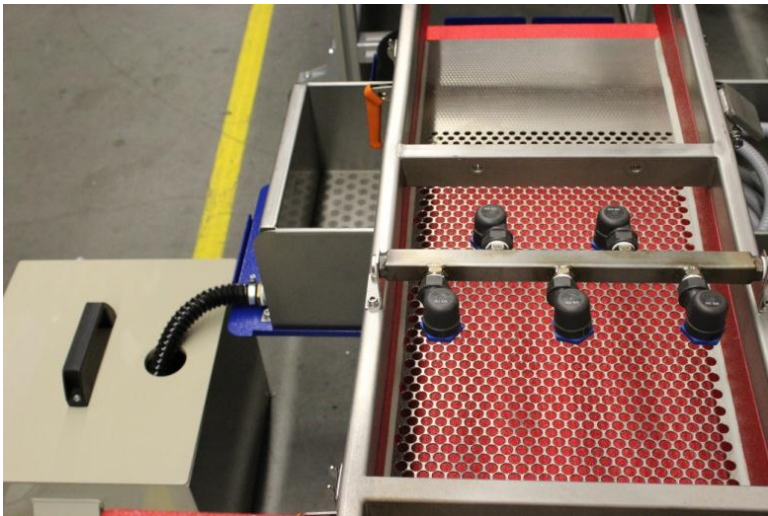


Fig. 2

Since the size and shape of bone plates are such that some media may still remain after this process, a second screen was incorporated. This separates the bone plates from the process media in a second separation stage (Fig. 3).

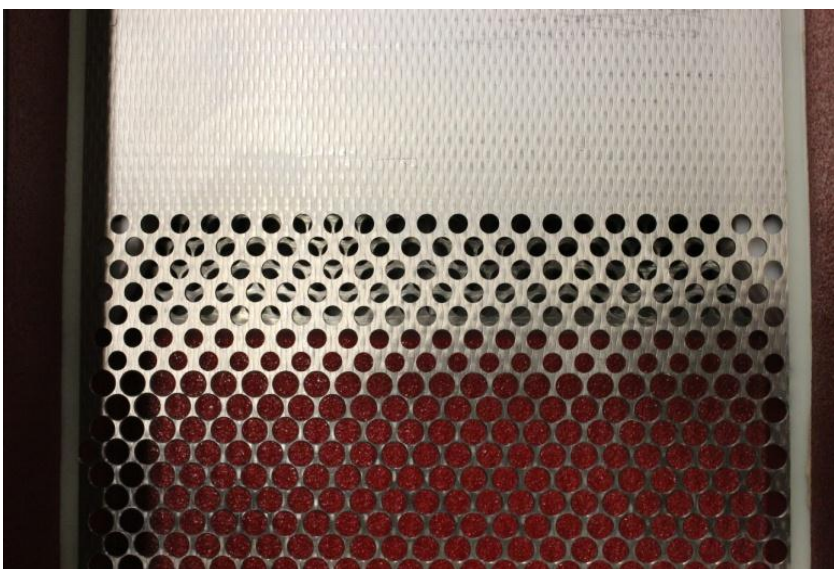


Fig. 3



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The separated media is collected in two stainless steel troughs. These are fitted with a perforated bottom so that the remaining water can drain off and the grinding media can easily be poured back into the process container for the next job.

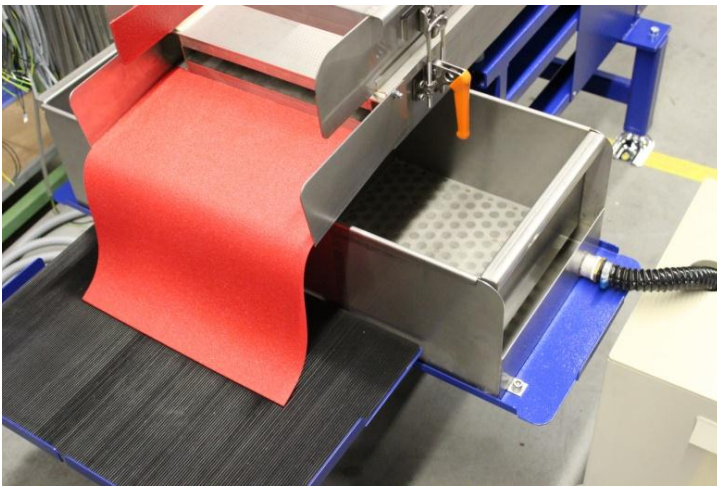


Fig. 4 with media collecting trough

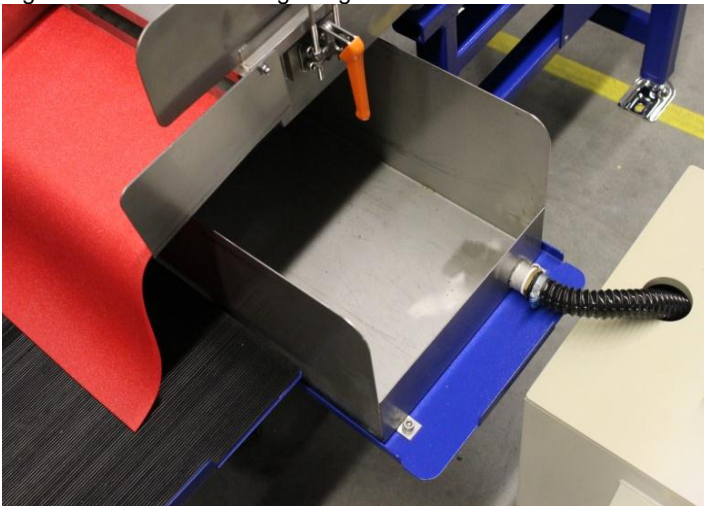


Fig. 5 without media collecting trough

The result is a separation rate of 98%.

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