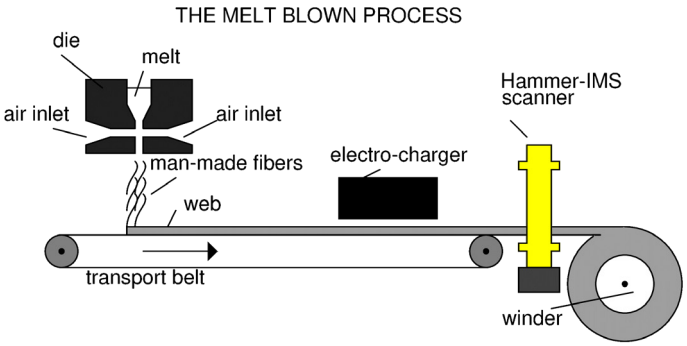
Meltblown processes for mouth mask filtration media benefit from a small sustainable C-shape basis-weight scanner.

Discover our C-frame

Meltblown is an efficient and widely used process for manufacturing of many air filtration media. Especially HEPA base materials are typically produced in this way. More recently, it is shown that meltblown production lines can quickly be set-up to provide answers to the increasing world-wide demand for mouth masks. Hammer--IMS provides small C-shape basis-weight scanners to boost-up product quality within a single meltblown production batch, but also to guarantee repetitive quality over multiple batches.



The meltblown process excels in its simplicity and conversion time, yet it is the most performant process to make permeable materials. A die contains a heated polymer melt, which is blown-out by two controlled air blowers on opposite sides on the die, creating a cloud of man-made fibers with a fineness that can go down to a few 100 nanometers. The cloud is sucked against a collector media, which is either a belt or a roller. Electro-charging further downstream controls the pore sizes creating optimal permeability at an optimized pressure drop. Last, the self-bonded product can directly be winded and shipped for use in mouth masks or HEPA modules.

As quick as the meltblown process is, we can also go quick serving you a good solution for product-quality monitoring, and more specifically basis-weight monitoring. The main reason behind this fast-project approach is that our technique does not use radioactive sources or X-Ray devices. This makes them extremely versatile in the quickly-changing markets of medical filtration and hygiene applications. You can start using it as soon as our device arrives since your local government does not force you to apply for special emission licenses.

Our application for man-made fiber web formation starts for media having a weight of a few tens of grams up to several hundreds of grams. Our products are future-proof since a device which is applied in a meltblown process can be relocated to heavier nonwoven products (e.g. needlepunched nonwovens) to secure your investment which you might have made initially for the volatile and unpredictable segment of mouth mask production.

Depending on the case, we can equip your line with either a single or two sensor head device, measuring the basis-weight (or 'grammage', as you like) of your product.

Last, specifically for air filtration materials, as is the case for mouth mask production and HEPA, we can provide solutions for air permeability sensing as well.

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