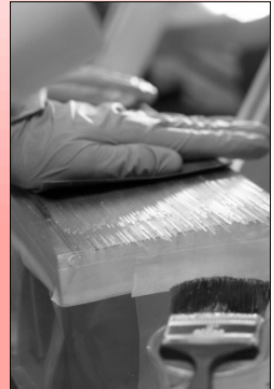


Building the Matrix

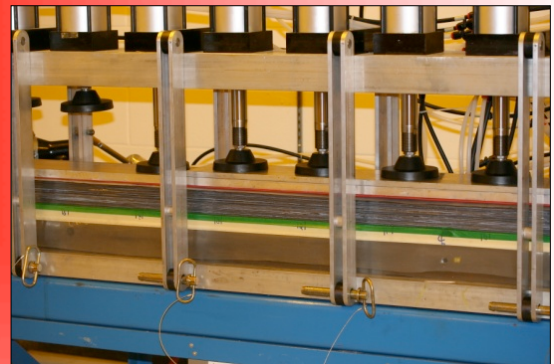


The matrix begins with the aluminium base plate machined flat with a centre groove for one fibre.



Layers are applied one at a time, consisting of two layers of optical epoxy, one layer of fibres, and one layer of lead.

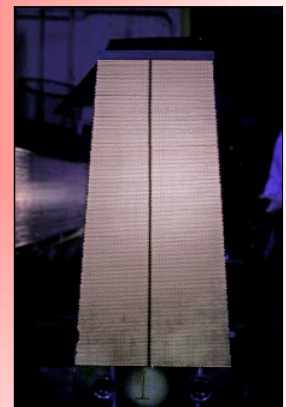
Each build is completed within 2 hours, and is pressed promptly to ensure that the epoxy dries flat. The matrix is pressed for a minimum of 8 hours.



Each matrix is built to the specific height of 261.62 mm. Subsequently, the final aluminium plate is glued into place on top.



The matrix is packaged and shipped to Ross Machine shop for the sides and ends to be polished and flattened.



The finished module is sloped on each side by 7.5 degrees. Finally, the finished module is carefully measured and tested for uniformity.



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