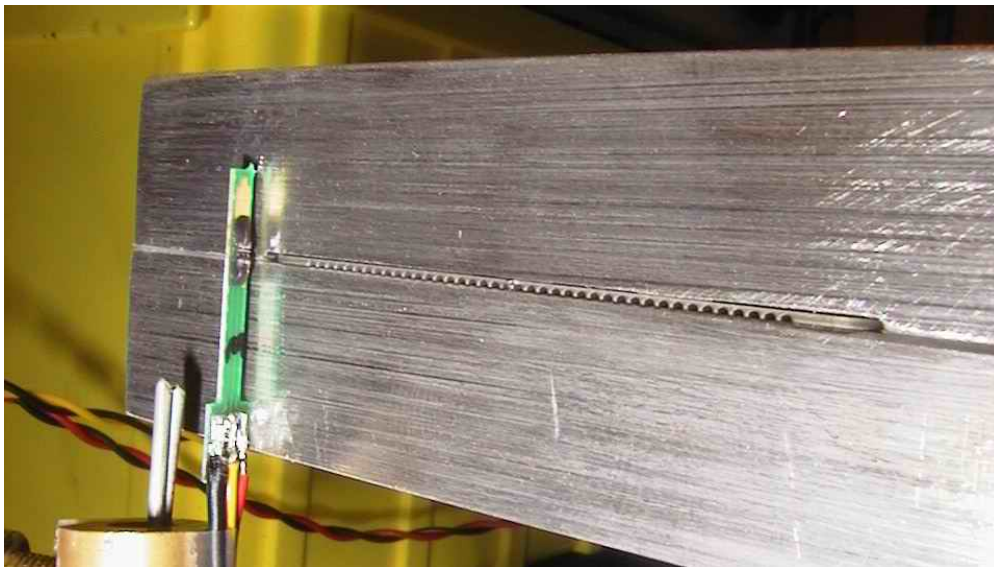


Low DC flow measurement with a high spatial resolution

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At the University of Twente a device was made with the purpose to generate a special DC flow field. A DC air flow divided in a high number of (250 μ m in diameter) little holes, the maximum air-velocity from the holes was in the order of 1mm/s. The set up was made in such way that is possible to adjust the opening of the holes. A traverse robot was used to scan with a Microflown just in front of the holes, see the figure below.



The DC velocity was measured for several opening-adjustments and plotted in the figure below. The measurement of the velocity distribution was the main question, not the absolute air velocity itself.

