

Figure S1 (a)-(c) The plots show typical profiles of the adhesive surface at the vicinity of the pair of channels of two unequal diameters. The figures correspond to different filling conditions of the channels. The adhesive layer is of thickness, $h = 850 \mu\text{m}$ and channels are of diameters: $d_1 = 800 \mu\text{m}$ and $d_2 = 450 \mu\text{m}$ respectively with interchannel spacing, $s_1 = 30 \mu\text{m}$.

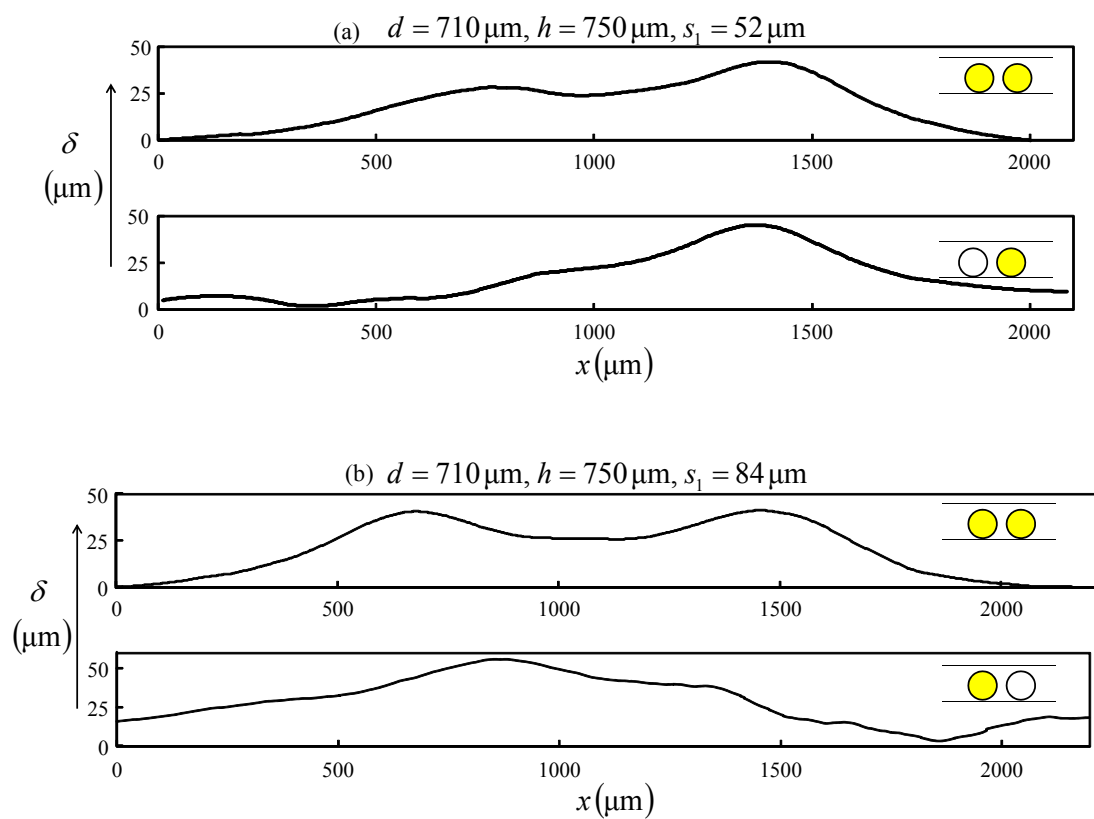


Figure S2. The plots show typical profiles of the adhesive surface for a pair of channels of equal diameters: $d = 710 \mu\text{m}$, $h = 750 \mu\text{m}$, at two different inter channel spacings, $s_1 = 52$ and $84 \mu\text{m}$.