

Microfluidic Thin Film Pressure Balance for the Study of Complex Thin Films

Sébastien Andrieux¹, Pierre Muller¹, Manish Kaushal^{1*}, Nadia Sofía Macias Vera¹, Robin Bollache¹,
Clément Honorez², Alain Cagna³, Wiebke Drenckhan¹

¹Université de Strasbourg, CNRS, Institut Charles Sadron UPR22, F-67000, Strasbourg, France

²Laboratoire de Physique des Solides, CNRS, Université Paris-Saclay, 91405 Orsay, France

³Teclis Scientific, 69380 Civrieux d'Azergues, France

Table 1: Tools used to mill the microfluidic plates, with the parameters for milling. The tools were supplied by *Performance Micro Tool*, except for *, which was purchased from *CIF* (no longer available from this supplier).

Tool (reference supplier)	Rotation speed (rev/min)	Feed per tooth Fz (mm/rev)	Milled parts
TS-2-0781-S	3209	0.00937	joints and gas channels
TS-2-0390-S	6427	0.00468	liquid channel
TS-2-0080-S	31330	0.00096	bike wheel
ET-4-1250-C	2005	0.015	surfacing and inclined surfaces
DU17* (Ø 2mm, 30°)	3000	Ø	cones

* Current address of M.K.: Indian Institute of Technology Kharagpur, Kharagpur-721302, India