

### **Introduction:**

Knowing the size of your cell can be of high importance especially in cell sorting. Any cell sorter allows customized use of different nozzle size and different sheath pressures. The use of the different configuration depends on the studied cell type and the fragility of these cells. Knowing both things can help improve the outcome of any sort.

As an approximation:

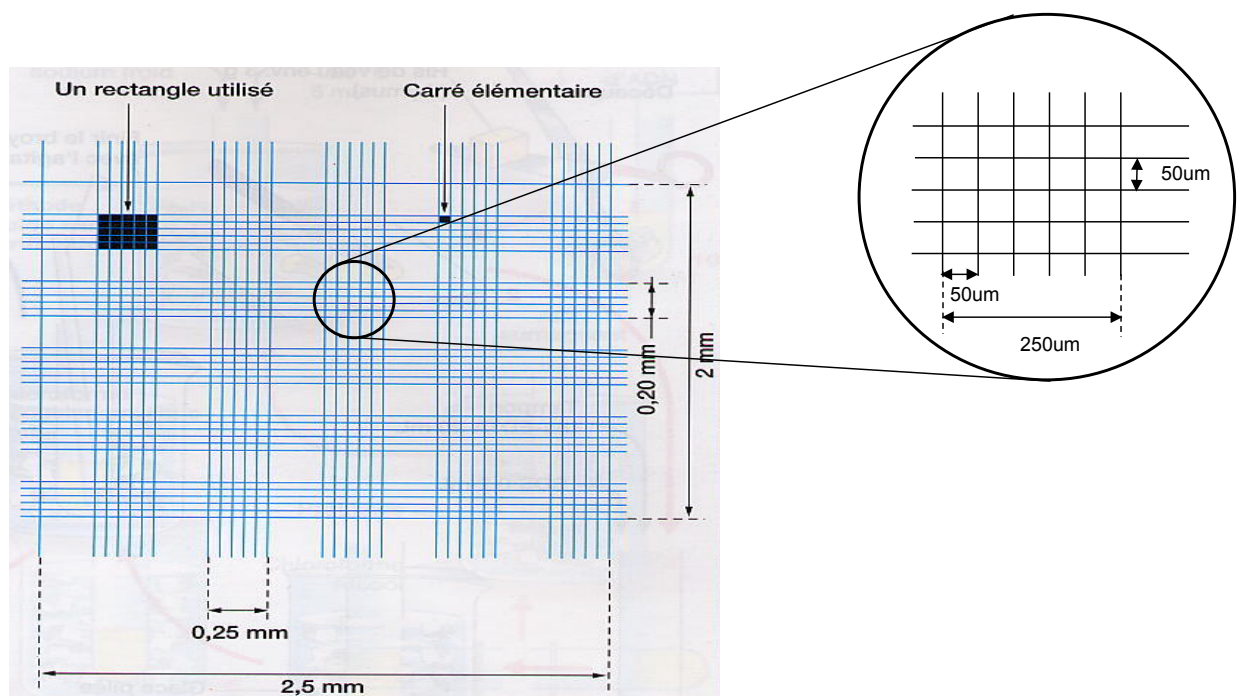
Nozzle size > 3 times x cell size for non-adherent cells

Nozzle size > 5 times x cell size for adherent cells

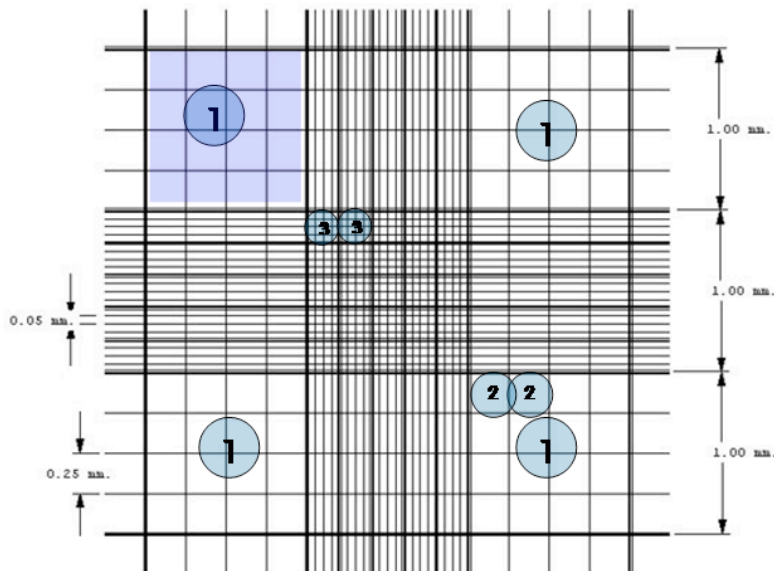
### **Procedure:**

An easy way to estimate the diameter of any cell is to use the elementary squares of a Malassez type cell counting chamber. An elementary square measures: 50µm x 50µm.

### **Malassez cell counting chamber:**



**Neubauer cell counting chamber:**



Square 1: 1mm x 1mm

Square 2: 0,25mm x 0,25mm

Square 3: 0,2mm x 0,2mm

Elementary square: 50μm x 50μm

**Thoma cell counting chamber:**

