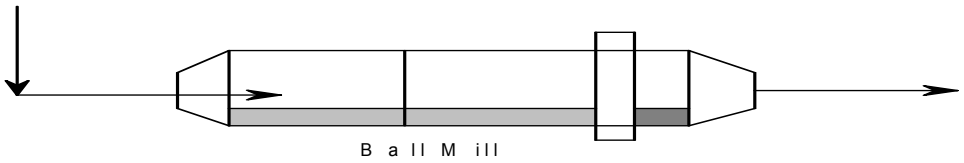
**Cement Mill Output at Different Finenesses**




**Cap** **Current mill output** $Cap := 100$ tph

B1 **Current fineness of cement acc. to Blaine** $B_1 := 3000$ cm2 / gm

**$B_2$** **Desired fineness of cement acc. to Blaine** $B_2 := 3500$ cm2 / gm

**$Cap_{new}$** **To find what would be new capacity of mill ( tph )**

$$k := 10^{\left(\frac{B_2 - B_1}{1000}\right)\cdot 0.213}$$

$k = 1.278$

$$Cap_{new} := round\left(\frac{Cap}{k}, 0\right)$$

$Cap_{new} = 78$ tonne/hr

**Alternate formula**

**$Cap_{new}$** **new capacity of mill**

$$k := e^{\frac{B_2 - B_1}{1000}\cdot 0.49}$$

$k = 1.28$

$Cap_{new} = 78$ tonne/hr