Design Rules for Bitmaps:

- Determine the parameter settings for a regular pattern that is suitable for the respective sample
    - Ion - Current (results in different Total diameter)
    - Overlap - results in different Pitch size and thus different resolution
- Design Bitmap in that way, that when loading it into the FIB program and adjusting its size
  one pixel size equals the Pitch size determined in the previous experiment
- Different resolutions in x, y direction are possible

Example:

Determine milling parameter:

- Size: 1µm x 1µm
- Current: 10pA => Total diameter = 12nm
- Overlapp: 50% => Pitch = 6nm
- Resolution: 1µm / 6nm = 166.67 px / µm

Determine design parameter

Version 1: Giving the desing size and calculate the needed resolution:
Scale between milling and design: 1µm (milling) - 1cm (design)

- Size: 1cm x 1cm
- Resolution: 166.67px / cm = 423.3px / inch = 423.3dpi

Version 2: Giving the resolution and calculate the design size
Resolution: 300dpi

Length: 166.67px / 300dpi = 0.556" = 1.41cm
=> Design: Square: 1.41cm x 1.41cm @ 300 dpi

List of Total diameter[nm] in dependence of Ion-current @ 30 kV:

1pA	7
10 pA	12
30 pA	16
50 pA	19
100 pA	23
0.3nA	33