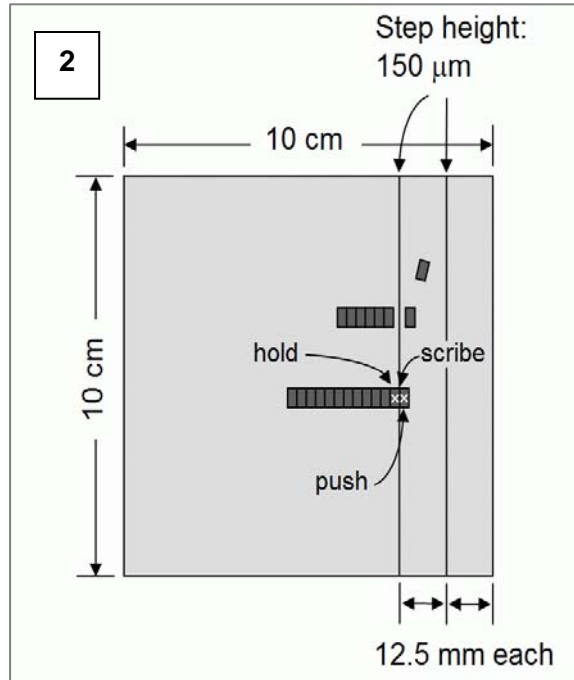


Chip Cracker Kit

NanoInk's DPN[®] Probes are available as separated dies or in bulk as entire 4" wafers or parts thereof. These wafers consist of rows of dies, each with probes on both sides. To use the probes, you need a way to separate these dies, which are connected with a thin layer of Pyrex glass. You can easily separate them with the Chip Cracker, a tool specifically designed with the geometry of the wafer and die in mind. The Chip Cracker is a 10 cm-by-10 cm anodized block of aluminum with two terraces cut into it that are only 150 microns high (see Figure 1).



Figure 1: The Chip Cracker and included diamond scribe. (Rows of dies are shown for illustration only.) Figure 2: Schematic indicating all the important dimensions of the Chip Cracker, also illustrating the best technique for using the device.



How to use the Chip Cracker:

Position the row of dies over the first step so that the separation line between two dies exactly coincides with the step (see Figure 2). Then, as shown in the figure, push down lightly on the center of the second die from the left using, for example, tweezers. [Do not clamp the die from the sides, as this would damage or destroy the probes.] While holding, push down *gently* on the rightmost die using the included diamond scribe. Do not push hard. The dies should separate easily. If they do not, use the scribe to **very gently** create a line along the separation line of the two dies. Finally, try to push again on the outermost die. The two dies should come apart without effort.

For more information including pricing, please contact NanoInk Sales Department at sales@nanoink.net or 1-847-679-NANO.

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