Pick&Place™ Holder Product Data Sheet

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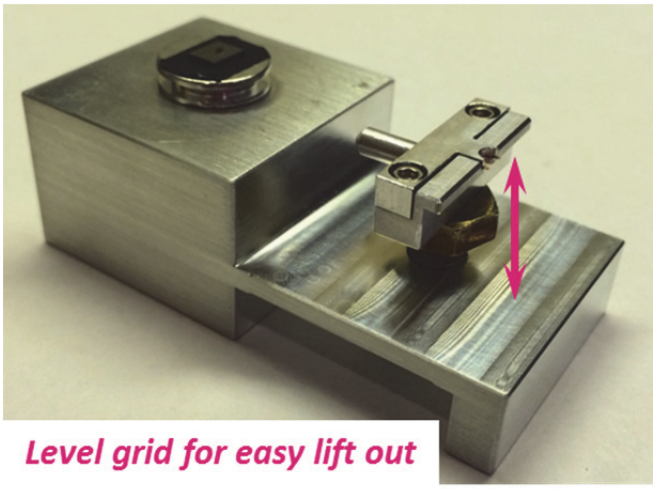
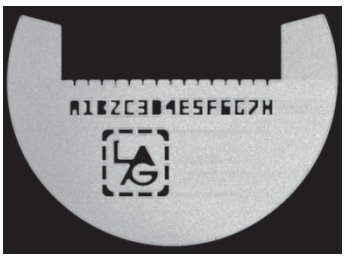
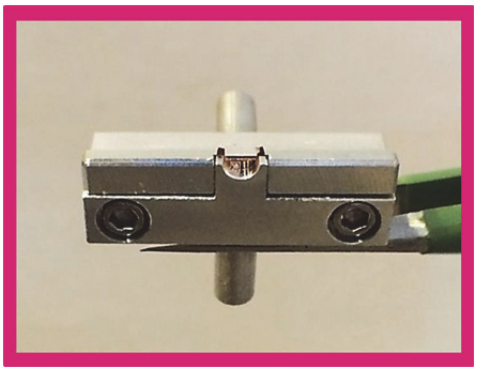
The ***Pick&Place™*** holder kit facilitates *ex situ* lift out using the patented ***EXpressLO™*** grids and method for S/TEM or other site specific materials characterization [1-5]. The specially designed holder accepts up to a 25 mm diameter sample stub for the specimen ***Pick***, and a dual pin grid holder for the ***Place***. The screw drive adjusts the grid ***Place*** height relative to the specimen ***Pick*** height for optimized tip positioning and manipulation during the ***EXpressLO™*** lift out process. The ***Pick&Place™*** grid holder features dual pins at 90° with respect to each other; the first pin for positioning the grid flat for the ***Place*** and the second pin for positioning the grid upright for further FIB processing without additional grid handling. The grid holder can be used with pre-tilted holders or mounting stubs.



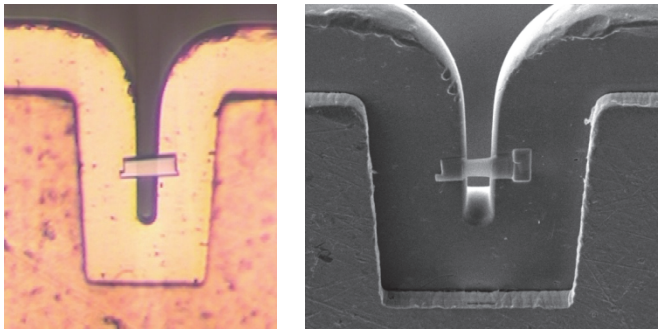
*The **Pick&Place™** holder kit.*



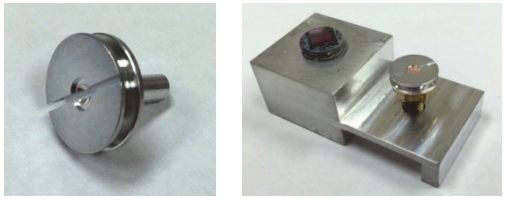
*The patented **EXpressLO™** Cu half grid [5] with 15 specimen positions: 7 small numbered slotted openings, 8 large lettered slotted openings.*



*The **Pick&Place™** dual pin grid holder.*



*The patented **EXpressLO™** grid and method was used to **Pick** a specimen, **Place** it across an open slot in a backside orientation, and transfer back to the FIB for final thinning without additional handling using the dual pin **Pick&Place™** holder.*



Includes a grid stub holder for thin film coated 3 mm grids.

References:

[1] Introduction to FIB, eds. L.A. Giannuzzi & F.A. Stevie Springer (2005).
[2] L.A. Giannuzzi, Microsc. Microanal. 18, 2012, 632.
[3] L.A. Giannuzzi, ISTFA 2012, ASM Int. 388.
[4] L.A. Giannuzzi Microsc. Microanal. 19, 2013, 906.
[5] www.YouTube.com/LAGiannuzzi.