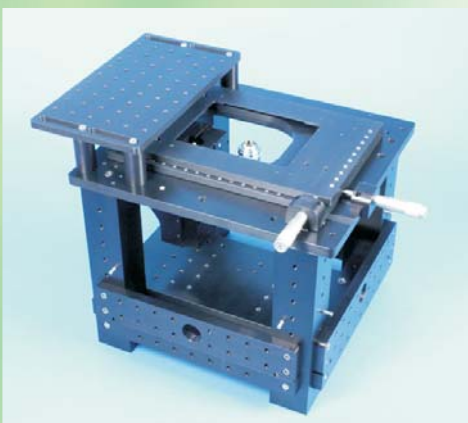
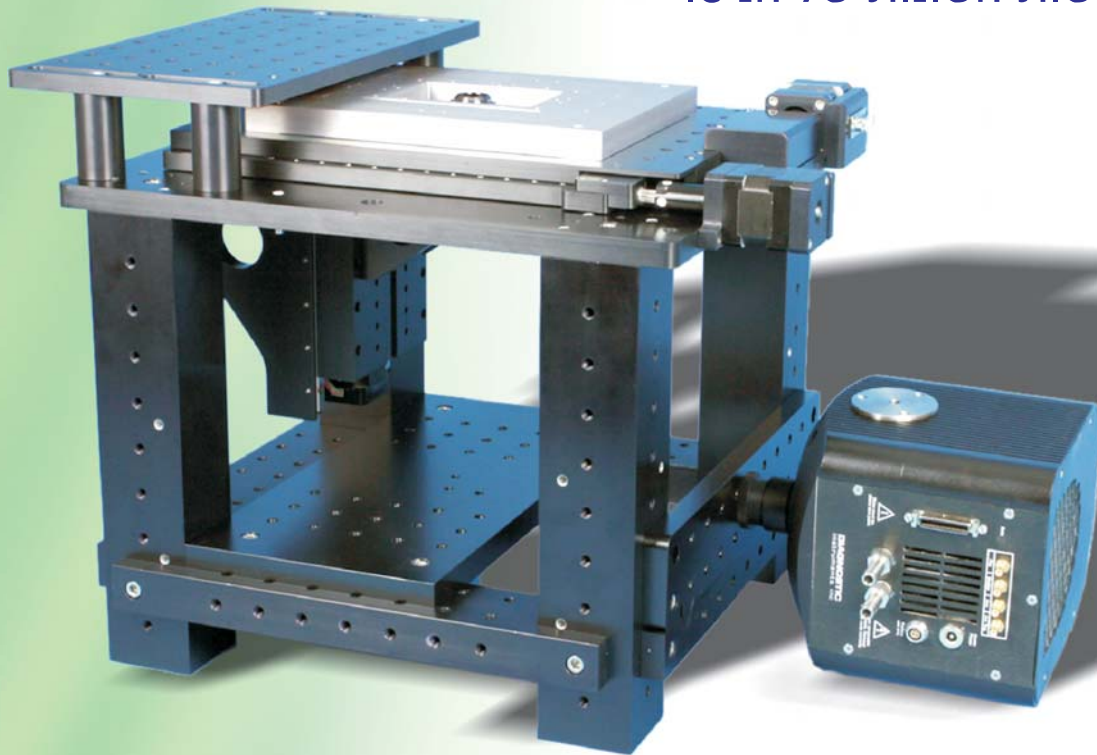


# מיקרוסקופ תצורה הפתוחה

המכשיר המוצע מאפשר מיקרוסקופ  
שתצורתו נקבעת ע"י המשתמש  
לפי הדרישות השונות של הניסוי



- add nano-positioning in any of 6 axes
  - (X, Y, Z,  $\theta_x$  tip,  $\theta_y$  tilt,  $\theta_z$  rotation)
  - linear movement resolution: sub-nanometer
  - rotational movement resolution: nano-radians
- add coarse positioning, manual or motorized
- add LED light sources ("no heat in the beam")
- add optical elements to support imaging & spectroscopy
- add devices cantilevered over your sample

to learn more, visit [www.MadCityLabs.com](http://www.MadCityLabs.com)

אם דרושה לך רק המסגרת  
נ! לשלם רק עבור המסגרת



פז"מ-טק (1991) בע"מ

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# RM21 Open Frame Microscope

*a/k/a "The KishkeScope"*

MCL manufactures the KishkeScope from aluminum alloy. All machining is done in-house. Only the anodizing (black hard coating) is done by a sub-contractor.

The RM21 Open Frame Microscope has no outer skin; you can not only see the kishkes (קרביים), and you can also easily change, arrange, and align the kishkes.

The basic frame is a cube ~30x30x30 cm. There are >250 tapped holes (M6x1.0) on every surface of the frame, arranged in a 25 mm grid. This provides attachment points for all sorts of gear, including L-brackets to secure the frame to an optical bench.

Attached to the sides of that frame are precision-aligned shelves, at heights of 62.5 mm and 137.5 mm, also with tapped holes (M6x1.0) arranged in a 25 mm grid.

Also attached to the sides of that frame are 3x side breadboards (300x50 mm). Each features a precision-aligned SM1 aperture and, of course, tapped holes (M6x1.0) arranged in a 25 mm grid.

Your microscope objective (RMS, M25, M26, M27, M32) can travel 50 mm in the Z-axis in 95 nm steps; an upgrade to 20nm encoders is optional.

Across the top of the KishkeScope is a 'coarse' micro stage with 25x25mm travel in XY, either motorized (stepper) or fingerized (thumbscrews).

MCL (Mad City Labs) piezo-driven nano-positioning stages attach directly to the micro stage, offering precise motion in 1-6 axes.

Above the stages, a large translatable breadboard allows you to cantilever devices over your sample; it comes with 54x tapped holes (M6x1.0) arranged in a 25 mm grid.

Lastly, at the center of the base of the frame, the RM21 Open Frame Microscope includes a precision-aligned 45 degree mirror to transport fluorescence (etc) to a camera or other detector(s).

Learn more at [www.MadCityLabs.com](http://www.MadCityLabs.com) or [www.PaZaM-tech.co.il/MCL](http://www.PaZaM-tech.co.il/MCL)