

# The *Harris Uni-Core*™

*An inexpensive, disposable sampling tool that can be autoclaved for repeated use and offers the simultaneous function of extraction, retrieval and storage when sampling.*

## **PYROLYSIS GC APPLICATIONS**



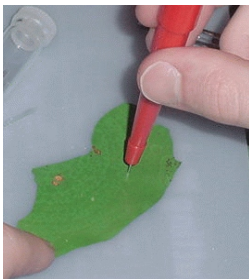
Ethylene oxide sterilized with cover cap, pouch and optional Harris self-healing cutting mat or Harris recordable cutting mat.



Razor sharp cutting tips capable of extracting paint discs in diameters of 0.5 to 8.0 mm.

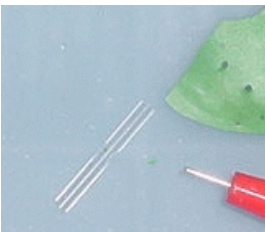


Temporary sample storage and controlled ejection plunger for precise sample positioning in quartz tubes.



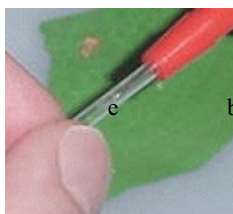
### **Sample Extraction**

The source paint sample is positioned on top of a Harris self-healing cutting mat or Harris clear, recordable cutting mat. Gripping the Uni-Core between thumb and index fingers, the tip is positioned at a right angle above the target area. Gentle, but firm, downward pressure is applied as the cutting tip passes through the paint chip and makes contact with the mat. Use the free hand to hold the paint chip on the mat and also steadies the mat. The Uni-Core is lifted away from the paint sample with a disc firmly stored in the cutting tip for preferred transfer.



### **Sample Retrieval and Storage**

The edge of the cutting tip pushes the substrate against the cutting mat. Downward pressure continues until the tip edge makes contact and penetrates the pliable mat. The paint disc is pushed further into the hollow end of the tip above the blade. The sample is now temporarily stored in the cutting tip for subsequent ejection. The Uni-Core can be rested on its side without loss of sample from the hollow tip.



### **Sample Delivery**

The stored sample may be ejected into one end of a quartz tube or into a custom designed center hole in the tube.

Each *Harris Uni-Core*™ (U.S. Patent No. 7093508) is available in diameters (mm) of: 0.35, 0.50, 0.75, 1.25, 2.00, 2.50, 3.00, 3.50, 4.00, 5.00, 6.00, 7.00 and 8.00. Each Uni-Core is separately packaged, ethylene oxide sterilized and can be autoclaved for 20 min at 250°F and 15 p.s.i. Custom size diameters available on request. Polyvinyl green, inert, self healing cutting mats are available in sizes of 2.5" x 3" and 6.0" x 8.0". Mats are not sterilized but may be rinsed with ethanol before use. The recordable, clear cutting mat is sold with a protective, removable cover on both sides. This mat can be sterilized with ethanol and will show every cut produced to reduce the chance of sampling over the same area.