

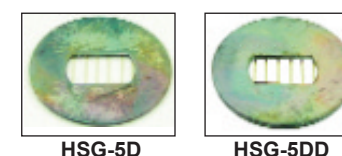
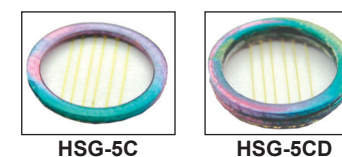
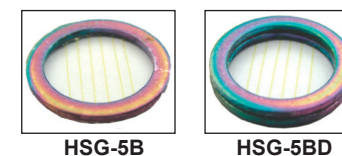
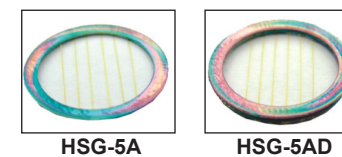
Electrophysiology and imaging experiments with submerged slices won't work if the slices are drifting during perfusion. Securing slices with "home-made" grids requires spending time gluing bits of wire and nylon together and testing them on valuable preparations. Using ALA's **HARP SLICE GRIDS™** will provide more consistent results and more time to do experiments.

ALA's **HARP SLICE GRIDS™** are constructed with durable and inert materials like glass-coated steel rings and polyimide-coated silica fibers or nylon and they are available in suitable configurations for most preparations. They are designed for busy researchers who want to focus their efforts on running experiments, not setting them up.

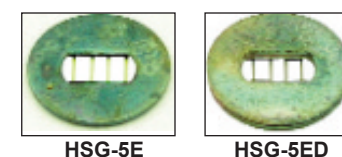
**Harp Slice Grids™** are available in two basic types:

The first type uses polyimide coated silica fibers as "strings" that lie across the preparation. The thinness of the "strings" (~50-65µm OD) combined with relatively wide spacing (about 1mm) facilitates electrode or pipette access from above the preparation. These are ideal for classical electrophysiological recordings with slices in submerged or interface chambers.

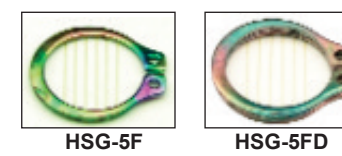
The second type employs nylon mesh in which the "strings" lay both horizontally and vertically across the preparation, forming squares of approximately 1mm<sup>2</sup>. This is the preferred type when contact between the preparation and substrate electrodes is critical, such as during recording with multielectrode array systems. Also they are excellent when combining multielectrode array recording, such as the MEA60 system, with conventional recording and stimulation methods.



The HSG-5D versions have an oval interior for superior perfusion coverage



The HSG-5E versions are similar to the HSG-5D versions but are smaller in size and weigh less



The HSG-5F versions have an area where forceps can be used to place and pick up the grid thereby making placement easy.

## Harp Slice Grids™:

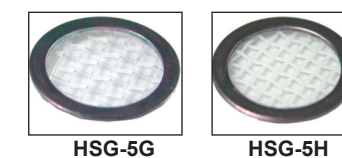
- Glass-coated steel attachment rings are rigid, inert, and dense
- Polyimide-coated silica capillary tubing are also inert, long-lasting, rigid, and are spaced widely to allow patch-pipette positioning
- Tightly-woven nylon mesh are spaced narrowly and hold slices securely with out impeding superfusate access
- Wide variety of sizes and weights are suitable for most preparations
- Custom grids may be available for specialized applications

These new **Harp Slice Grid** versions have been requested by customers. Four new are available. Two offer superior perfusion flow. Another offers ease of placement and pick up in a chamber. The last set offer a nylon mesh with 1mm<sup>2</sup> cubes or 1.18mm<sup>2</sup> cubes.

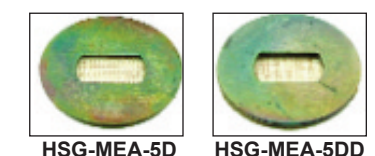
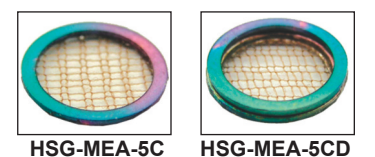
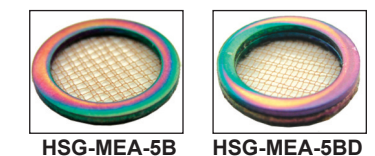
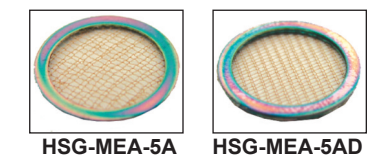
The following versions are painted with a resistant epoxy coating:

- |                   |                    |
|-------------------|--------------------|
| <b>HSG-5D</b>     | <b>HSG-5DD</b>     |
| <b>HSG-MEA-5D</b> | <b>HSG-MEA-5DD</b> |
| <b>HSG-5E</b>     | <b>HSG-5ED</b>     |
| <b>HSG-MEA-5E</b> | <b>HSG-MEA-5ED</b> |

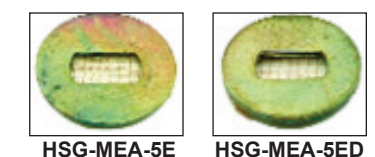
The 5F, 5G, & 5H versions are glass coated.



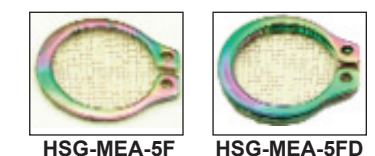
The HSG-5G uses a polyester mesh with 800µm<sup>2</sup> grids. The HSG-5H uses a nylon mesh with 1mm<sup>2</sup> grids. They have the same dimensions as the A models.



The HSG-MEA-5D versions have an oval interior for superior perfusion coverage



The HSG-MEA-5E versions are similar to the HSG-MEA-5D versions but are smaller in size and weigh less



The HSG-MEA-5F versions have an area where forceps can be used to place and pick up the grid thereby making placement easy.

Ordering information and Specifications- All are 5 in a Pack			
String spacing is 1mm and the each string is ~ 50-65µm thick		Nylon mesh with 1mm <sup>2</sup> spacing	
HSG-5A	9.5mm ID x 12mm OD x 0.5mm thick; 0.2g	HSG-MEA-5A	9.5mm ID x 12mm OD x 0.5mm thick; 0.2g
HSG-5AD	same as above but 1.0mm thick and 0.4g	HSG-MEA-5AD	same as above but 1.0mm thick and 0.4g
HSG-5B	9.5mm ID x 12.75mm OD x 0.83mm thick; 0.4g	HSG-MEA-5B	9.5mm ID x 12.75mm OD x 0.83mm thick; 0.4g
HSG-5BD	same as above but 1.64mm thick and 0.8g	HSG-MEA-5BD	same as above but 1.64mm thick and 0.8g
HSG-5C	6.4mm ID x 8mm OD x 0.5mm thick; 0.05g	HSG-MEA-5C	6.4mm ID x 8mm OD x 0.5mm thick; 0.05g
HSG-5CD	same as above but 1.0mm thick and 0.1g	HSG-MEA-5CD	same as above but 1.0mm thick and 0.1g
HSG-5D	6.0x3.3mm ID x 12.7mm OD x 0.54mm thick; 0.18g	HSG-MEA-5D	6.0x3.3mm ID x 12.7mm OD x 0.5mm thick; 0.17g
HSG-5DD	same as above but 1.07mm thick and 0.35g	HSG-MEA-5DD	same as above but 0.8mm thick and 0.35g
HSG-5E	4.8x2.5mm ID x 9.5mm OD x 0.5mm thick; 0.1g	HSG-MEA-5E	4.8x2.5mm ID x 9.5mm OD x 0.6mm thick; 0.4g
HSG-5ED	same as above but .85mm thick and 0.2g	HSG-MEA-5ED	same as above but 1.0mm thick and 0.8g
HSG-5F	10.0mm ID x 13.8mm OD x 0.8mm thick; 0.18g	HSG-MEA-5F	10.0mm ID x 13.8mm OD x 0.8mm thick; 0.14g
HSG-5FD	same as above but 1.8mm thick and 0.33g	HSG-MEA-5FD	same as above but 1.5mm thick and 0.31g
HSG-5G	9.5mm ID x 12mm OD x 0.5mm thick; 0.2g		
HSG-5H	9.5mm ID x 12mm OD x 0.5mm thick; 0.2g		

Custom types may be available but minimum quantity orders will apply, please consult factory