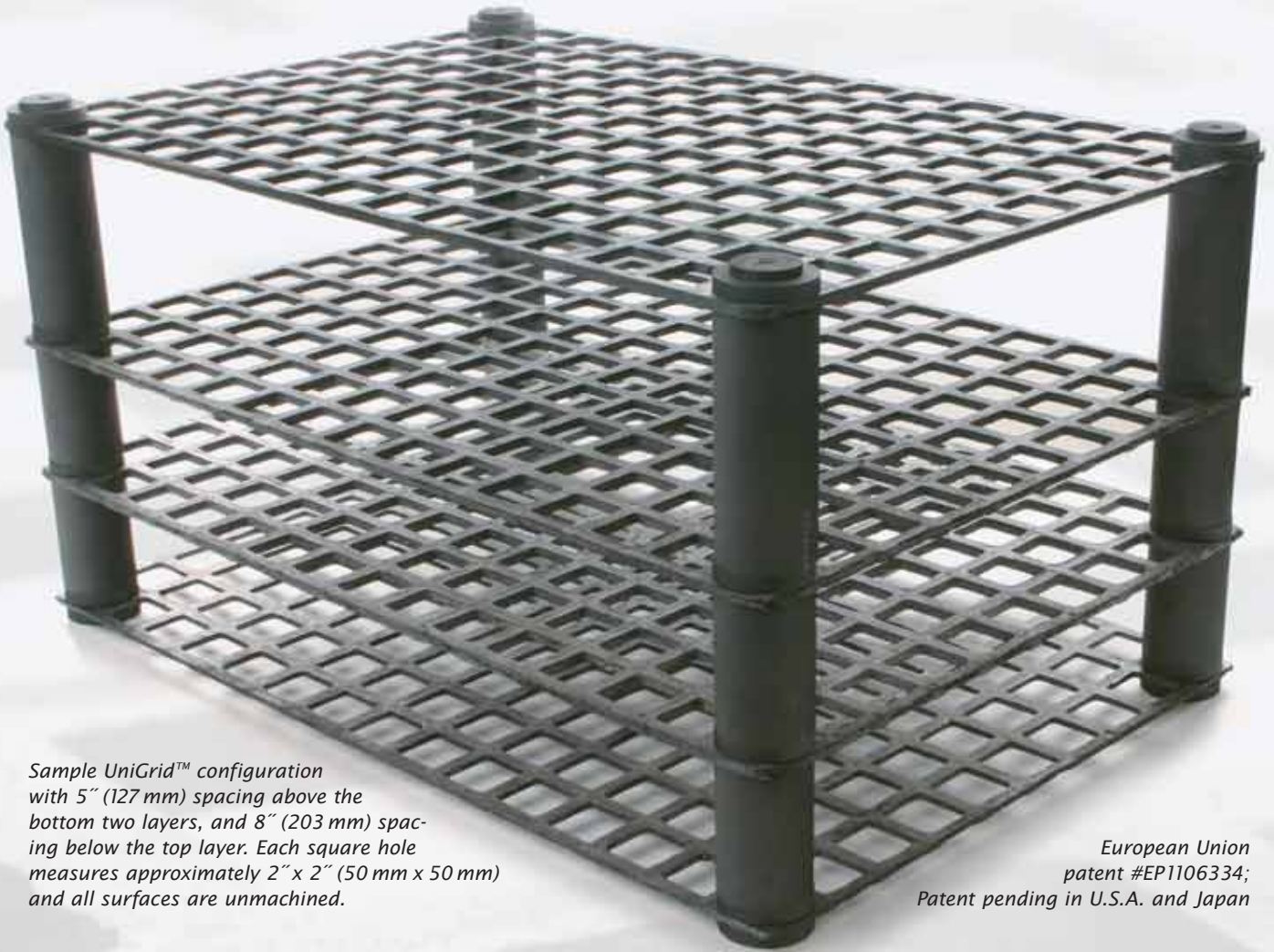


**UniGrid™**

**Carbon/Carbon Composite  
Modular Fixture System**

# UniQue ■ UniVersal ■ UniGrid™

**UniGrid™ – A composite grid so revolutionary, we patented it.**



*Sample UniGrid™ configuration with 5" (127 mm) spacing above the bottom two layers, and 8" (203 mm) spacing below the top layer. Each square hole measures approximately 2" x 2" (50 mm x 50 mm) and all surfaces are unmachined.*

*European Union patent #EP1106334; Patent pending in U.S.A. and Japan*

## **The heart of the system.**

Carbon/carbon composites are made entirely of carbon, one of the most common chemical elements on earth. This ecologically friendly material will not creep and distort like metallic grids, because carbon/carbon composites gain both strength and stiffness with increasing temperature.

Schunk's unique single strand construction permits fiber orientation only in the load-bearing directions. This method provides great strength but also great economy because no raw materials are wasted in manufacturing or fabrication.

Each standard 24" x 36" x 0.4" (610 x 910 x 10 mm) UniGrid™ composite grid weighs less than 7 lbs. (3 Kg.). With such light weight and low thermal mass, you can use your energy to heat parts, rather than grids.

With 150 different locations for legs and thousands of possible support combinations, each UniGrid™ composite grid allows you the greatest flexibility for load support. You know your business best, so you decide where the legs should be located.

## Even a superstar needs a great support system.

### Great support and easy to use.

The distance between layers is critical to optimize a furnace load without wasting space and money. We offer legs in seven standard sizes, providing inter-layer spacing ranging from 2" (50 mm) to 8" (203 mm) in 1" (25 mm) increments. Custom sizes are readily available if needed.

All of our legs are self-centering, both on our UniGrid™ composite grid and on each other. This means they are easy to install and align. When placed on top of each other, they drop into place to provide a solid stack with excellent vertical and lateral stability.

The legs are fully modular as part of the UniGrid™ system. If you need to support a heavier load, just add more legs as needed.

Legs are held in place with lightweight carbon/carbon composite studs providing excellent tensile strength. The entire assembly is put together by hand - no tools are needed!

### For those that feel the need to accessorize...



*In some applications, the formation of a eutectic mixture is a major concern. CarboGard™ ceramic tiles, plates, and rings offer a lightweight and thermal-shock-resistant means of isolating the parts.*

*CarboGard™ ceramics are available in several material grades including 99.5% alumina, 92% alumina, cordierite, and others. In addition to the material, the size and density of the pore structure can be varied to optimize your results.*

*Our standard tile fits into one square of the UniGrid™ system, similar to a ceiling tile dropping into the grid of a suspended ceiling. This modular design allows you to use as many or as few tiles as needed, thereby reducing thermal mass to an absolute minimum.*



*Although each leg is very strong and sturdy, the center is hollowed out for lighter weight and reduced thermal mass. This feature provides a stable footprint without any unwanted weight gain.*



*For use along the outer edges of the UniGrid™ assembly, our tile with one curb provides an edge to retain any parts that might "slip off" an unprotected edge.*



*If you process round parts, our tile with two curbs provides a means of containment, preventing the parts from "rolling around" on the grid assembly.*



*Rings are available to surround and provide isolation from the legs. They are stackable and can be placed one on top of the other until the desired height is attained.*

*Larger plates and shapes with additional features are available by special order.*

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