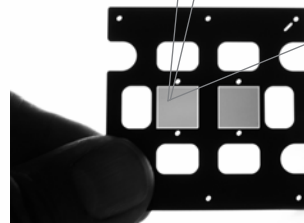
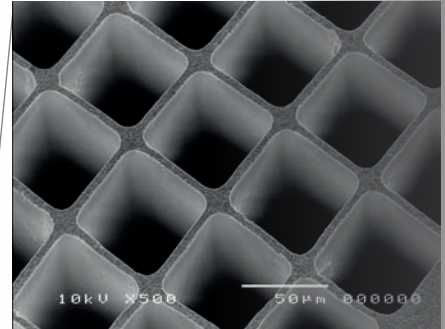


Ultra-High Precision Guide Plate Laser Drilling



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Highly Accurate Repeatability

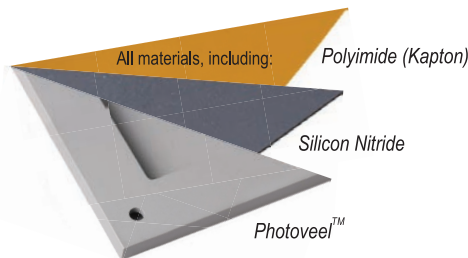
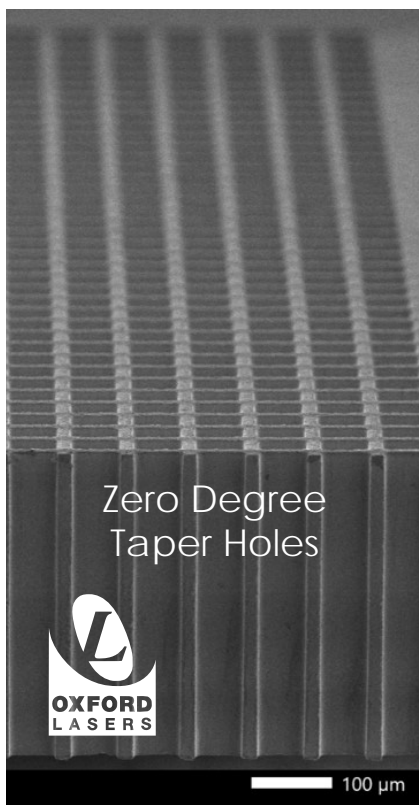
Ultra-High Precision Laser Drilling

Tight pitch	< 5 µm web
Hole size	< 20 µm
Corner radii	< 3 µm
Higher hole count	> 100,000 holes
Hole shapes	Square, round, elliptical, rectangular, asymmetrical
Range of materials	Ceramics, polymers, glass

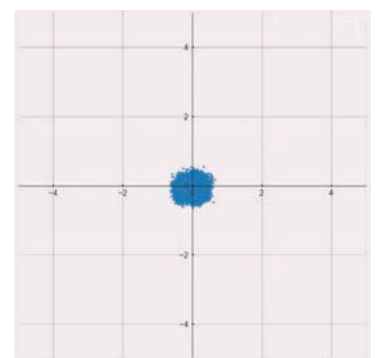
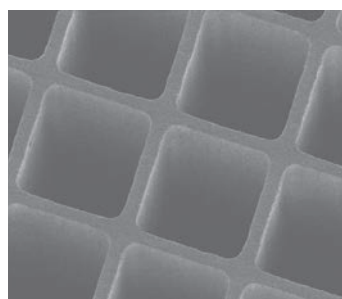
Machine Learning - Productivity Benefits

Oxford Lasers have built a machine learning system that provides a closed feedback loop in the manufacturing of Guide Plates. From initial design through to measurement of positional accuracy we have shown that with the use of AI we can enhance productivity and performance each time a plate is produced.

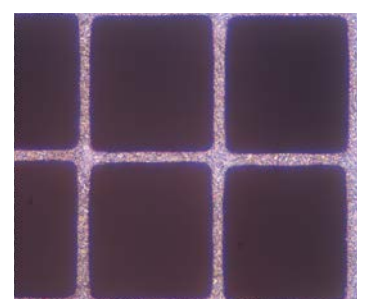
Hole positional accuracy 1 µm
50,000 hole part - position error



Tight Corner Radius
< 3 µm corner radius achievable



5 µm Narrow Land





Who We Are

From our origins as a spin-out from Oxford University in 1977, we are always innovating to provide industry and academia with high-precision laser-based solutions. For nearly 50 years, our in-depth knowledge of photonics, optics and industry has ensured that our customers harness the advantage of advanced, high-precision laser technologies.

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