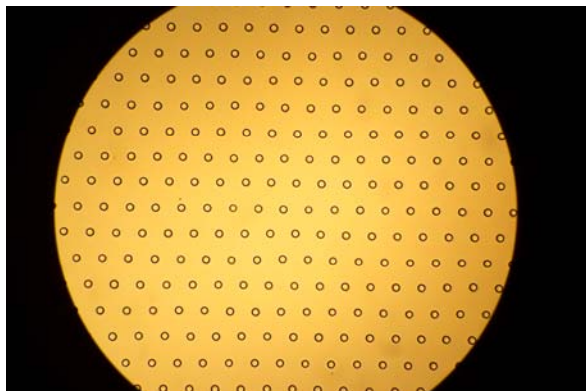

355 nm DPSS LASER TEXTURING OF POLISHED NICKEL



Many semiconductor, medical, aerospace and industrial applications require precision drilling and texturing of silicon, metals or plastics. The applications range from perforating membranes to disk texturing.

Using the Model 3510-30, the polished nickel on the left, was textured with 30 μm diameter bumps. Using single laser pulses and a scan rate of 3.3 meters per second, a 40 x 40 mm region was textured in 12 seconds. The bump separation is 100 μm .



The Series 3500 UV laser combines the high peak power, short wavelength, excellent pulse-to-pulse stability and superior beam quality required to achieve uniform depths and repeatable features.

Laser Model	Average Power	Rep Rate	Scan Rate
3510-30	1 Watt @ 355 nm	30kHz	3.3 meters /sec