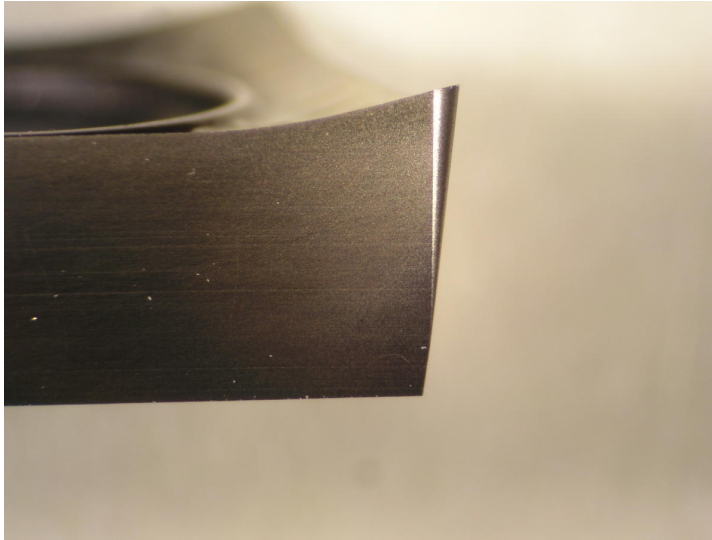


Ultra-short Pulsed Laser Deposition Sets New Standards for Diamond-like Coatings

MDT Staff



Finnish coating technology specialist Picodeon has developed a technique for depositing diamond-like films onto a wide range of substrates using its patented ultra-short pulsed laser deposition (US PLD) technology. Diamond-like coatings create superhard surfaces (greater than 40 Gpa) with a low coefficient of friction and excellent coating adhesion. The US PLD deposition process uses a high laser pulse repetition rate and fan-shaped plasma bloom which enables high production rates and makes feasible the industrial coating of large surfaces at film thicknesses down to nano-scale.

Applications for diamond-like coatings range from machine tooling components through to wear components for medical, optical and sensor applications. Picodeon's US PLD deposition is a cold ablation technology, which works across a vast range of coating materials and substrates. By adjusting processing parameters, the structure and properties of the coating can be tailored to the requirements of the application, even for nanostructure-scale surface coatings.

For more information, visit www.picodeon.com [1].

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[1] <http://www.picodeon.com>

