## IHC'S DLC

Characterized by its extreme hardness, high lubricity, high wearresistance, and high corrosion resistance, Industrial Hard Carbon thin film is applied to parts by a proprietary plasma-assisted chemical vapor deposition process.

IHC films are created from layers of nano-crystalline diamond and nanocrystalline silicon carbide in an amorphous matrix of both elements. It is the unique combination of these elements that give Industrial Hard Carbon its wide range of properties and extremes in those properties, and its qualities can only be surpassed by pure diamond.

IHC's Diamond-Like Carbon Coating has unlimited applications, but some its common uses are in the following industries: firearms, motorsports, oil and gas, industrial, chemical, printing and packaging, cutting tools,
 electronics, and chemicals.

# 50\% 3,800 <br> Or greater friction 

 reduction with no lubrication
## INTERESTING FACTS

Minimal thickness at 2 to 4 microns.

High wear rate with one millionth of an inch wear rate per one million cycles; validated on 30 million cycles.

It can withstand less than 46,000 psi tensile and compressive stresses, and compressive strain of 0.17 percent.

It's thermal conductivity is less than $10 \mathrm{~W} / \mathrm{cm}^{\circ} \mathrm{K}$.

Industrial Hard Carbon is a diamond-like thin film coating that offers flexibility in many different applications, allowing it to succeed where other thin films fail.

IHC is commonly used in applications where high wearresistance, high lubricity and high hardness are important, and the thin film can handle extreme conditions such as altitudes, pressures and temperatures.

## GO GREEN

IHC's DLC is environmentally friendly.

