## Technology & Product Portfolio

**PeCVD & Plasma Nitriding Equipment for Components**

<table>
<thead>
<tr>
<th>Technology</th>
<th>PFC RF 400</th>
<th>PFC PeCVD 400</th>
<th>PFC PeCVD 650</th>
<th>PFC N/DLC 800</th>
<th>Plasma Nitriding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>PeCVD by RF 13.56MHz</td>
<td>Hybrid PVD/PeCVD</td>
<td>Hybrid PVD/PeCVD</td>
<td>Hybrid Plasma Nitriding/PeCVD</td>
<td>Plasma Nitriding</td>
</tr>
<tr>
<td>Useful Size</td>
<td>400 x 400 mm</td>
<td>400 x 500 mm 2 Magnetrons</td>
<td>600 x 700 mm 2 or 4 Magnetrons</td>
<td>PFC N/DLC 650: 650 x 700 mm</td>
<td>PFN Box Nitrider: 650 x 850 mm</td>
</tr>
<tr>
<td>Cycle Time</td>
<td>2µm: 3h</td>
<td>2.5 µm: 3-5h</td>
<td>2.5 µm: 3-5h</td>
<td>50 µm Nitriding depth + 1h</td>
<td>In relation with depth request</td>
</tr>
<tr>
<td>Coatings</td>
<td>Cr/DLC</td>
<td>Cr/CrN/DLC</td>
<td>Cr/CrN/WC/C</td>
<td>Cr/CrN/DLC</td>
<td>Nitriding diffusion layer without white layer + DLC</td>
</tr>
<tr>
<td></td>
<td>Cr/CrN/DLC</td>
<td>WC/C</td>
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<td>WC/C</td>
<td>Diffusion layer with or without compound layers</td>
</tr>
<tr>
<td>Properties</td>
<td>Low friction, high density, high compressive stress</td>
<td>Metal DLC coating, low friction, wear resistance</td>
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<td>Fatigue and wear resistance, low friction, corrosion resistance</td>
<td>Surface hardness</td>
</tr>
<tr>
<td>Applications</td>
<td>Components for automotive, aircraft, hydraulic, textile, plastic molds, tooling</td>
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<tr>
<td>Options</td>
<td>Pulsed DLC</td>
<td>Equipment for non conductive materials + DLC</td>
<td>Equipment for non conductive materials + DLC</td>
<td>Anti-corrosion coating</td>
<td>Active Screen 2017</td>
</tr>
</tbody>
</table>

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**PerformCoat Equipment LLC**

12816 Stahl Drive  
Knoxville, TN 37934, USA  
+1 865 321 3932  
kunzc@ymail.com  
www.performcoat.com

**Japan**

United Machine Tool Co., Ltd.  
324-4, Nozomigaoka, Meito-ku  
465-0046, Nagoya, Japan  
+81 52 771 5077  
y.danno@unitedmt.jp  
www.unitedmt.jp

**South Korea**

59-12 Dongo 4-gil, Hyangnam  
Hwaseong, Gyeonggi  
18624 South Korea  
+82 10 3818 0660  
jongseong.gim@hotmail.co.kr

**China**

DongGuan HS Vacuum Coating Co., Ltd  
C Building NengTian ALingKan  
DaLingShan Town, China  
+86 1771 730 1316  
lioe_pan@163.com

**Taiwan**

Pan-Folk International Corp.  
6F, No.348, Sec 7  
Chengteh Rd. Taipei, Taiwan  
+886 228 282 750  
panfolksdavid@gmail.com