



# CERTESS<sup>®</sup> DCX

**Hard and tribological coating  
implemented by PECVD and PEMS technology.**

- Composition** : Carbon-Hydrogen based coating on a Chromium-Nitrogen based underlying layer.
- Structure** : Amorphous dense layer, and quadratic dense nano-scaled grains underlying layer.
- Temperature resistance**: Up to 350°C depending on test protocol.
- Hardness** : 2500 to 2800 HV .
- Process Temperature** : 150 to 350°C, according to the substrate material.
- Thickness** : typically 2 to 4 µm according to application.

### **Typical applications :**

- Mechanical parts for abrasive wear resistance, heavily loaded contacts.
- Automotive components for friction losses reduction.



### **Acceptable materials to be coated :**

- Metals and alloys with no or small content of Zn, Mg, Pb...
- Carbides, plain or brazed on steel part,
- Allowing a process temperature : minimum 150°C.

### **Other characteristics :**

- Coating on finished part, no significant dimension variation,
- Excellent chemical inertia.