

## CVD for dressing applications



### CVD | Properties of CVD diamond

Polycrystalline CVD diamond is chemically inert, has exceptional thermal conductivity, combined with excellent mechanical resistance to wear and thermal oxidation.

These products have been specially designed to offer high resistance to abrasive in dressing and cutting applications, as well as for wear parts. CDK an CDY are suitable for rotary dressing applications. It is usually supplied in the form of rectangular bars of various lengths and cross-sections, but it is also available in custom-made shapes. The growth side can be machined for narrower dimensional tolerances in terms of thickness.

#### Application Field:

► Dressing Tools

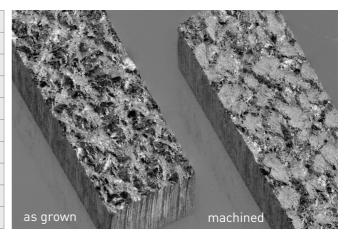


#### Product characterization:

- ▶ Precision laser cut
- Optical 3D control
- ► Nitrogen content measurement
- True density measurement



| CVD-CDK Eco        | CVD-CDY Premium   |  |
|--------------------|---|--|
| Translucent / Dark | Translucent   |  |
| DC arc plasma jet  | DC arc plasma jet   |  |
| polycrystalline    | polycrystalline   |  |
| 800°C              | 800°C   |  |
| > 8 W/cm.k         | > 15 W/cm.k   |  |
| 8000 HV 10         | 10000 HV 10   |  |
| 10-35K             | 35-55K  |  |
| 450Mpa             | 600Mpa  |  |
| 850                | 1100  |  |
|                    | Translucent / Dark  DC arc plasma jet  polycrystalline  800°C  > 8 W/cm.k  8000 HV 10  10-35K  450Mpa |  |









# CVD for dressing applications CDY and CDK

| Shape                     | Shape for price calculatculation | Thickness            | Length     | Width                     |
|---------------------------|----------------------------------|----------------------|------------|---------------------------|
| Rectangle and<br>Square   | Rectangle and<br>Square          | > 0.4 mm<br>≤ 1.5 mm | Max. 10 mm | Max. 10 mm<br>≽ Thickness |
| Triangle and<br>Trapezoid | Triangle and<br>Trapezoid        | > 0.4 mm<br>≤ 1.5 mm | Max. 10 mm | Max. 10 mm<br>≽ Thickness |
| Sector                    | Trapezoid                        | > 0.4 mm<br>≤ 1.5 mm | Max. 10 mm | Max. 10 mm<br>≽ Thickness |
| Round                     | Square                           | ≥ 0.4 mm<br>≤ 1.5 mm | Max. 10 mm | Max. 10 mm<br>≽ Thickness |

