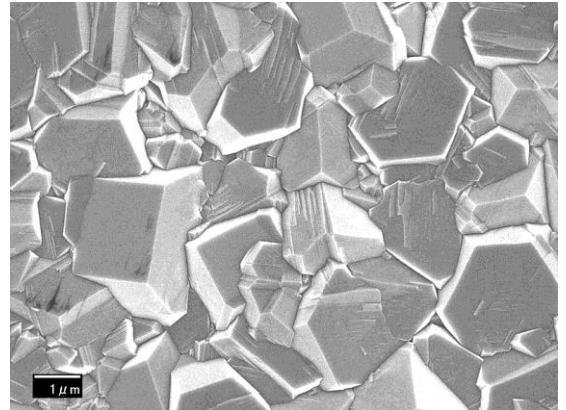


- Contactless and nondestructive measurement
- Measurement possible right out of the oven
- Very wide available thickness range (0,1 to 600 μm depending on the application)
- High accuracy and repeatability
- Very precise spatial resolution
- Low measuring time of about 1 second
- Compact and light sensor easily embedded for an automatised control of complex parts or of large dimensions
- Several measurable materials with a same system

PYROLITIC CARBON AND VAPOR DEPOSITED CERAMIC CARBIDES (CVD) THICKNESS MEASUREMENT



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APPLICATIONS EXAMPLES

- Pyrolytic carbon coatings on C/C composite
- Thermal coatings on aircraft engines
- Anticorrosion coatings for heat exchangers in chemical engineering
- Anti-oxidation protection for high temperature thermal exchangers for renewable energies
- Ceramic surface coatings for optical properties
- High speed friction zone
- Hard treatments on cutting and drilling tools

EXAMPLES OF MEASURED CVD MATERIALS

- Pyrolytic carbon, DLC...
- SiC, TaC, WC ...
- TiCN, BN, AlN, Si₃N₄....

ADVANTAGES AND SAVINGS

- A fast, precise, very repeatable measurement can be implemented in an automated way on very large parts or parts with a complex geometry.
- General, cartographic or very spotted on the sensible zones control of the thickness of coatings on single parts or parts with very high added value.
- The thickness of coatings with the same material than the substrate is measurable : C(cvd) on Graphite, C(CVD) on composite C/C, SiC(CVD) on SiC

Dimensions of the measuring head	l120 x w66 x h66 mm
Weight of the measuring head	< 500g
Measurable thickness range	0 – 500 μm
Repetition rate	0,1 s
Distance between probe and part	35 mm 5mm (with angle)
Spot diameter	0,3 - 10 mm