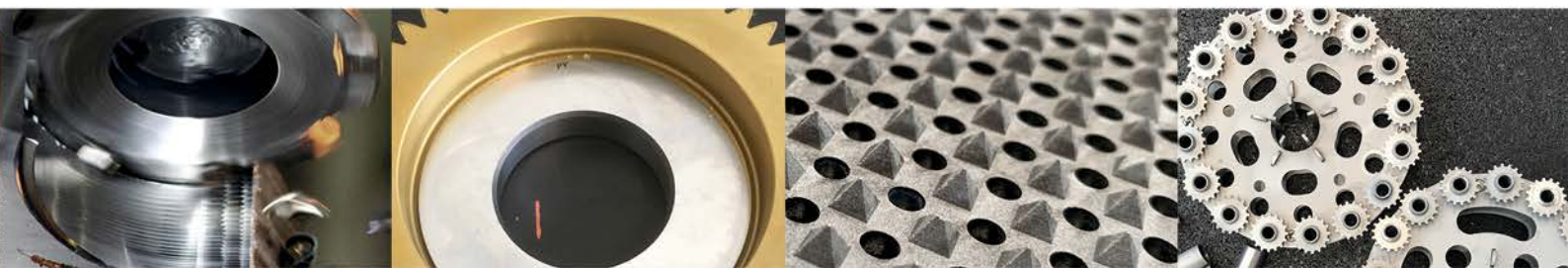




Decoating Technology

# DECOATING SOLUTIONS

HIGH QUALITY, RELIABILITY, EXPERTISE



 MADE IN GERMANY

[www.ngl-group.com](http://www.ngl-group.com)

## Tool resharpening or repolishing: giving the tool multiple life cycles

PVD and CVD coatings allow to increase the hardness of cutting tool edges, hence increasing both the lifetime and performance of the cutting tool. But the coating may wear and the tool will need to be resharpened (regrinded) and repolished.

For parts, where the tolerance on the produced parts is strictly controlled, it is essential that the coating is removed without any damage to the substrate (e.g. Cobalt leaching).

PVD coating is very sensitive and many issues can occur in the surface preparation process prior to coating, as well as problems during the coating itself, such as arcs formation or adhesion issues.

An insert or a drill which has coating defects or does not match the required coating specification will be useless and in order to avoid scrapping these costly tools, decoating is the only professional option.

The NGL decoating range allows precise and safe decoating of most coatings on carbide, HSS and most types of tool steel.



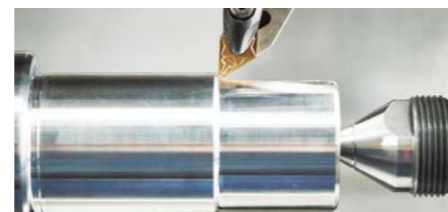
## THE DECOATING CENTER IN BOCHOLT, GERMANY



Our decoating processes are suited for PVD, CVD and PACVD deposited layers.

NGL develops and provides decoating solutions and services for a wide range of tools, watch parts and objects with different vacuum coatings. Up to 1.5 meter diameter and weights up to 5 to. could be handled in our Decoating Center. Our expertise extends to intricate and long parts, with blind holes and deep cavities.

**PARTS TO BE DECOATED :** Cutting tools, Molds/dies, PVD chamber parts, PVD planetary and tube holders, CVD graphite and CFC parts, Ceramic components, Decorative parts, Special tools, Watchcases, Recycling materials (carbide scrap).



## SOLUTIONS

**Decoating:** Depending on the substrate, typical coatings, Ti or Si based can be removed easily with our Ferrodec 56, Uniceral 308 or Excarbonite 222.

**Cleaning:** Our Vacukleen range will offer perfect cleaning results while protecting parts from corrosion or cobalt leaching.

## APPLICATIONS

Medical devices  
Automotive & Aerospace  
Cutting tools  
Moulds and Mints

## WHY NGL?

Our cleaning and decoating range of products will guarantee perfect surface preparation prior to PVD coating.

With our NGL Academy, you can train your staff and optimize your existing decoating processes.

Technical Data Sheet on a specific material is available at [kontakt@ngl-group.com](mailto:kontakt@ngl-group.com)

## CARBIDE DECOATING



### UNICERAL 308

Acidic liquid product for the decoating of titanium, aluminium or zirconium PVD layers on carbide tools without cobalt leaching.

- Benefits:
- Ready to use
  - Optimized protection of carbide substrates
  - Shiny effect after stripping process
  - No damage to tools edges
  - No cobalt leaching



### CERALTIN 211

Alkaline Liquid product for the decoating of chromium or silicon based layers on carbides.

- Benefits:
- No cobalt leaching
  - Optimized protection of Carbide substrates
  - No crystallization of the bath and no vapor condensate
  - Shiny Effect

## STEEL DECOATING



### FERRODEC 56

Powder product for the decoating of titanium and aluminium based layers on steel tools.

- Benefits:
- Cost-effective
  - Fast decoating
  - Efficient decoating on Ti, Al and Si based PVD/CVD coatings



### EXCARBONITE 222

Powder alkaline liquid product for the decoating of chromium based layers on steel tools.

- Benefits:
- Very efficient on Cr layers
  - Suitable for all types of Steel
  - Efficient decoating on DLC(Cr) or DLC(Si) layers

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