

COIN DIES & PRINTING PLATES



ECOLOGICAL CLEANING SOLUTIONS **•** SWISS QUALITY





CLEANING AND SURFACE PREPARATION

Expanding the lifetime of printing of tools in the coins and notes manufacturing industry: Die punches and printing plates.

SUBSTRATES MATERIALS:

- HSS Steel
- Cold work steel
- Copper

- Tin, TiCN, TiC;
- ALTIN; ALTISIN;
- AlCrN

COATINGS:

CrN





FERRODEC 56

Powdered product for the decoating of aluminium or titanium based layers on steel tools.

Benefits:

- Cost-effective
- Fast decoating
- Abrasive Efficient decoating on Ti and Al base PVD/CVD coatings

TYPICAL DECOATING PRO



Benefits:

Abrasive Blasting

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PRINTING PLATES: COATED COPPER

Used for the Intaglio printing, a critical step of notes manufacturing which makes the note much more difficult to counterfeit.

Engraved copper plates are coated to increase hardness of the surface and sustain the multiple tons pressure of the rolling press while printing up to 1 Million notes before being replaced.

For a perfect PVD coating preparation, our rinsing free and copper compatible detergents will guarantee a spot free result, while a mild acid finish will improve the adherence of your coatings.

DETERGENTS AND FINISHING SOLUTIONS

PRODUCT	рН	ТҮРЕ	FUNCTION	APPLICATION/CONTAMINATION
KORROSTOP 5000	13.7	Detergent Finishing detergent	Spray or ultrasonic process	Corrosion protection
VACUKLEEN SUPRA II	14		Ultrasonic cleaning	Universal cleaner, free rinsing
HELIT 2022	8.4			
RODASTEL 30	0.5			Deoxidation, neutralization and activation of surfaces

CLEANING OF TEMPERED STEEL PARTS:



DECOATING CENTRE IN BOCHOLT, GERMANY

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



NGL develops and provides decoating solutions and services for small to large pieces such as molds, parts sizes up to 1.5m in diameter and weighing up to 5t.

Our expertise extends to intricate and long parts, with blind holes and deep cavities.

Send us blanks for trials if you wish!



EXCARBONITE 222

Verv efficient on Cr and Si lavers

Powdered alkaline liquid product for the decoating of chromium or silicon based layers on steel tools.

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Dry Ice Blasting



material plasma

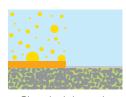
substr

UNICERAL 308

dirt layer Acidic liquid product for the deco of titanium, aluminiµm or zirconiur PVD layers on carbicle tools

Benefits:

- Ready to use
- Optimized protect substrates
- Shiny effect after stripping process
- No damage to tools edges



Sandblasting: Damaged surface Dulled edges

Chemical decoating No damage to edges and surface

COIN DIES:

Carbon steel, HSS, guenched steel, to obtain maximum hardness for cold forming. Parts are often coated with a PVD layer to increase hardness and improve friction, thus extending the lifetime of the tool, up to 200 000 stamped coins.

Once the tool coating starts to wear, the PVD layer can be removed by our chemical process, which does not damage the engraving or edges of the die. Parts can then be cleaned and protected against corrosion until they get recoated.



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