

PLASTIT®

Process descriptions:

PACVD coating processes for stripping and removal of titanium and carbon based coats.

GOLD LF PLASTIT®:

The universal hard material coats on TiN basis provides lower friction coefficients (< 0.2) in comparison to steel. First choice for tools in plastics processing.

CARBON LF PLASTIT®:

The multi-coat system based on TiCN is characterised by great hardness and a high degree of wear resistance in the moulding area.

BORON Nanocomp PLASTIT®:

Is a multi-layer coat with nano structure and with TiN / TiB₂ base components. It is characterised by its great hardness (TiB₂) and elasticity thanks to the multi-layer structure. This coat has been developed for aluminium die casting tools since it provides high degree of temperature resistance and wear protection.

DL Coat PLASTIT®:

See data sheet of DL Coat PLASTIT®

DLC Xtended®:

See data sheet of DLC Xtended®

Industries using this process:

→ Plastic processing, aluminium die casting, moulding engineering

Materials:

→ Quenched and tempered steels
→ Tool steels
→ Hot-forming tool steels

Main features:

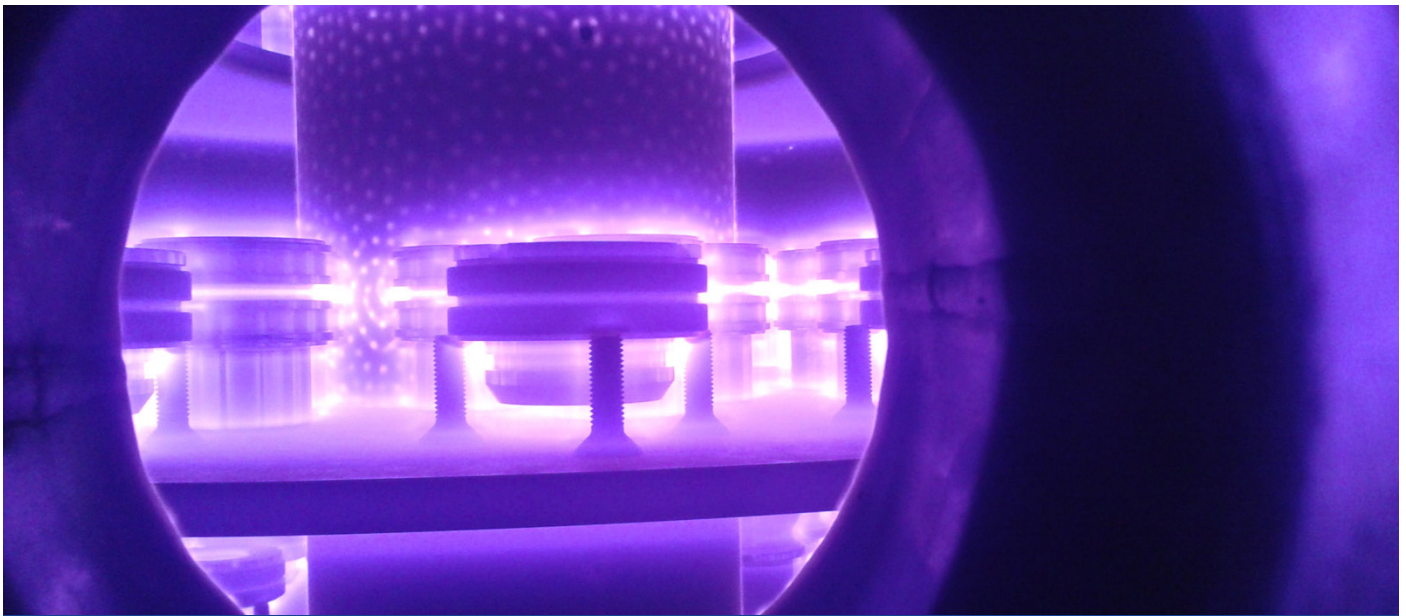
→ Great wear resistance for increase of the service life of tools and dies
→ Very smooth coats (no droplets)
→ Large component dimensions and complex geometries possible

Coat hardness:

→ TiN ~2.000 HV
→ TiCN ~2.500 HV
→ TBN ~4.500 HV

Coat thickness:

→ ~2 µm



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Plant dimensions:

→ 700 mm x 1.200 mm

Major use and purpose of the process:

- Protection against wear of tools and dies
- Increase of service life of tools and dies

Throughput duration:

→ Upon request

Possible preparation treatment of the surfaces for optimum surface condition:

- Free from grease, oil, processing agents or drawing and casting skins
- No corrosion
- Clean cooling channels

Important:

→ Installation surfaces are not treated

Contact:

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