



## DL coat PLASTIT®

### Process description:

#### DL coat PLASTIT®:

This is a low-temperature DLC coating applied by means of the PACVD method. This coat has been developed for wear protection and for minimisation of friction.

### Industries using this process:

→ Injection moulding of plastics, mechanical engineering, chemical industry, precision components, etc.

### Materials:

→ Low-temperature annealed steels (> 200°C)  
→ Tool steels  
→ Aluminium

### Main features:

→ Anthracite coloured coat  
→ Water-repellent  
→ Electrically insulating  
→ a-C:H:Si layer

### Major use and purpose of the process:

→ Wear protection  
→ Minimisation of friction  
→ Inserts of plastic moulds  
→ Decorative coats

### Coat thickness:

→ ~2 µm

### Coat hardness:

→ ~2.000 HV

### Maximum component dimensions:

→ Suitable for small component up to max. 100 mm x 200 mm x 400 mm

### Throughput duration:

→ By appointment, usually within one week

### Process duration:

→ Depends on the coat thickness

### Possible preparation treatment of the surfaces for optimum surface condition:

→ Metal blank surface  
→ No corrosion  
→ Micro-blasting  
→ Free of grease, oil, processing agents or drawing and casting skins  
→ Polishing  
→ Annealing  
→ Clean cooling channels  
→ No strain hardening through e.g. mechanical processing



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### Required information:

- Material
- Definition of the area to be nitrided
- Indication of the installation surfaces (they will not be coated)
- Previous heat treatment processes

### If you wish for a consultation and recommendations, we would need the following information:

- Application area of the component
- Purpose of the coating
- Previous and further process steps
- Are we allowed to perform micro blasting?

### Important:

- Installation surfaces are not treated

### Contact:

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