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 × 200 mm × 400 mm

Throughput duration:
→ See list of deadlines

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
DL coat PLASTIT®

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

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