



ikos dynamant®
technologies powered by cleanpart

Dynamant® is a coating based on diamond-like carbon (DLC coating of type a-C:H:X). A huge variety of materials can be coated using PACVD technology. Using the Dynamant® coating surfaces can be modified in terms of hardness and friction properties. The other characteristics of Dynamant® surfaces also open up a whole range of interesting perspectives.

- Very high hardness (< 2500 HV)
- High elasticity
- High shock resistance (90% elastic resilience)
- Very low dry friction ($\mu < 0.05$)
- No intrinsic roughness
- Chemically inert, no corrosion
- Hydrophobic or hydrophilic surface characteristics can be set

Areas of implementation

- Process plant construction
- Automotive industry
- Tools
- Sliding components such as sliding bearings, gears, chains, joints, rollers, etc.
- Medical industry
- Design

Procedures

Individual pieces to line production (max. 1.100m)

Parts > 2m by special arrangement

Materials

- Steel and steel alloys
- Aluminium and aluminium alloys
- Most metals
- Oxydic and non-oxydic ceramics
- Glass and plastics

Standard coating thicknesses

2.5 μm for the base materials steel and ceramics

8.0 μm for softer base materials

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