

Creation of a New Lubrication by Polished Diamond Film

Coating with diamond by hot filament method



Soft diamond deposition

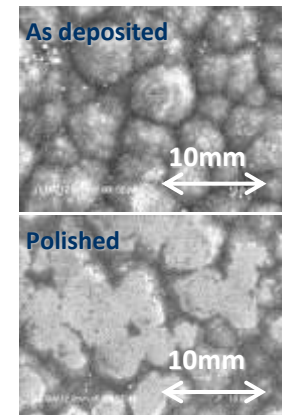
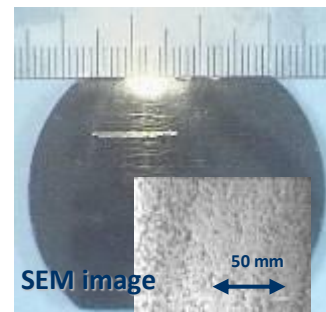
Smooth surface diamond is the key for low friction coefficient

→Partly polished diamond



HFCVD makes it possible to deposit diamond onto complicated surface !

Deposition on spherical body



Diamond deposition by HFCVD

Advanced Systems Evaluation Laboratory, IFS, Tohoku Univ.