

Press Release

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Plasma-Assisted Surface Coating - Processes, methods, systems and applications

Innovative plasma-assisted surface coatings and applications allow the economic and environmentally friendly production of hardcoating layers on technical surfaces.

The achievable improvement in efficiency and increase in production afford preservation or actually an advancement of competitiveness for the user.

Plasma-assisted surface coating includes PVD as well as CVD methods. Besides sequential or simultaneous utilization of PVD methods (arc, sputtering, HPPMS) in one process the classic PVD methods coupled with CVD methods are termed as hybrid processes.

Combination processes denotes in particular nitriding of the surface layer prior to hardcoating. The wide range of applications varies from flexible standard applications in modular design to individual special applications or even turnkey solutions.

The title '*Plasma-Assisted Surface Coating*' first was published in Germany in the series '*Die Bibliothek der Technik*' in cooperation with Sulzer Metaplas, a Sulzer Metco company. The focus of this new English reference book is on elaboration of the coating process and application technology. Furthermore, the process technology of PVD and DLC high performance coatings and practical methods from diverse industries are described. The review of current development trends documents the potential of plasma-assisted surface technology for the future.

by Georg Erkens et. al.. München: Süddeutscher Verlag onpact GmbH, 2010. technical cooperation of Sulzer Metaplas GmbH. 72 pages, Hardcover. 8,60 Euro. ISBN 978-3-86236-013-0

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