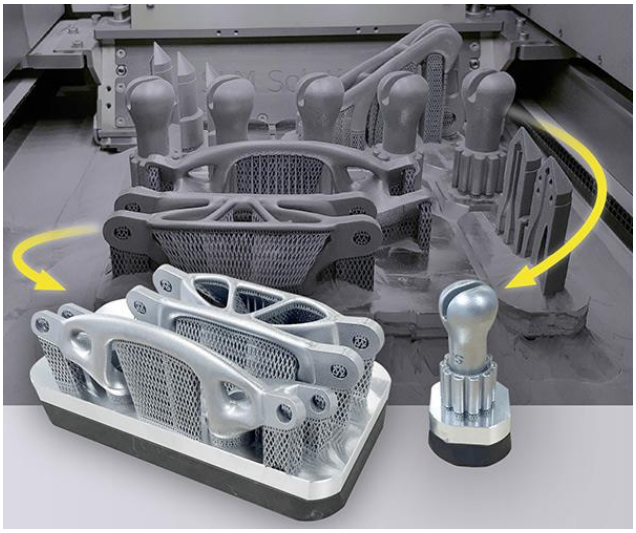
ADDITIVE TECHNOLOGY/ RAPID PROTOTYPING
INTEGRATION with VACUUM SPUTTERING METAL COATINGS

3D printing processes (SLA, SLS, MJP, CJP and DMP) are revolutionizing the way of design, manufacture and use of many components, both polymer and metal, for applications in industry and in everyday life.

With this technology it is possible to quickly print 3D parts (based on custom designs) of plastics (PA11, PA11, composites, other polymers and elastomers) and metals (titanium, stainless steel, aluminum alloys, nickel super alloys, Kovar, etc.) .



KOLZER PVD metal coating machines solve common problems of 3D printed parts: the correct PVD coating on a 3D printed mold could prove to reduce the impact of wear, friction, harsh chemicals and materials or heat, while increasing durability and the performance of the mold (we are talking about nanometric thicknesses, so they do not create tolerance problems).

Surface preparation, cleaning and handling are fundamental. Metals are much easier than non-metals, as they don't absorb oils and aren't porous like non-metals, so there's no air trapped, for example. Plastic parts are more porous and take longer to clean and prepare within the vacuum process chamber.

The combination of KOLZER PVD metal coating machines and 3D printing systems guarantees a better future for everyone!

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