



# Tribologie der zinkphosphatfreien Kaltmassivumformung (German Edition)

*Patrick-Marcel Mattfeld*

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**Tribologie der zinkphosphatfreien Kaltmassivumformung (German Edition)** Patrick-Marcel Mattfeld

Zur Substitution von Zinkphosphatschichten auf Halbzeugen für die Kaltmassivumformung wird ein tribologisches System vorgestellt, das die technologischen Funktionen der Reibungsreduktion und des Verschleißschutzes durch alternative tribologische Effekte abbildet. Durch die gezielte Interaktion einer gestrahlten mikroskopischen Halbzeugtopografie, einer keramischen Werkzeugbeschichtung auf PVD-Basis und einem flüssigen Esterschmierstoff gelingt die zinkphosphatfreie Kaltmassivumformung nicht nur auf Laborebene, sondern auch unter industriellen Randbedingungen.

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