



Seefeld (Bremen)

Oberflächenbeschichtung für das schmierstofffreie Tiefziehen hochlegierter rostfreier Stähle

Surface coating for the lubricant-free deep drawing of high-alloy stainless steels

Publikationsverzeichnis

List of Publications

a) Beiträge mit wiss. Qualitätssicherung / *Articles with scientific quality assurance*

Ditsche, A; Seefeld, T

Local laser particle fusion: Fusing of hard particles for the reduction of high contact pressures in MMC tool surfaces

JOM – The Journal of The Minerals, Metal & Materials Society (TMS) 72(7) (2020) 2488-2496
<https://doi.org/10.1007/s11837-020-04190-9>

Ditsche, A; Seefeld, T

Agglomerated tungsten carbide: A new approach for tool surface reinforcement

Key Engineering Materials 809 (2019) 121-127 (online)
<https://doi.org/10.4028/www.scientific.net/KEM.809.121>

Freiße, H; Ditsche, A; Seefeld, T

Reducing adhesive wear in dry deep drawing of high-alloy steels by using MMC tool

Manufacturing Review 6, 12 (2019) 1-12
<https://doi.org/10.1051/mfreview/2019004>

Freiße, H; Bohlen, A; Seefeld, T

Determination of the particle content in laser melt injected tracks

Journal of Materials Processing Tech. 267 (2019) 177-185 <https://doi.org/10.1016/j.jmatprotec.2018.12.018>

Freiße, H; Seefeld, T

Tool surface with a supporting plateau of hard particles for deep drawing of high alloy steel
Proc. of the 5th Intern. Conf. on New Forming Technology (ICNFT 2018) MATEC Web of Conferences 190, 14006 (2018)

<https://doi.org/10.1051/matecconf/201819014006>

Freiße, H; Vetter, K; Seefeld, T; Polte, M; Polte, J

Production of a supporting plateau out of hard particles in a tool surface and its influence in dry sheet metal forming

Proc. of the 7. WGP Jahreskongress, eds.: R. Schmitt, G. Schuh. Apprimus Verlag Aachen (2017) 527-534

<urn:nbn:de:101:1-201711036588>

Freiße, H; Langebeck, A; Köhler, H; Seefeld, T; Vollertsen, F

Investigations on dry sliding of laser clad aluminum bronze

Manufacturing Review 3, 13 (2016) 1-10 <https://doi.org/10.1051/mfreview/2016012>

Freiße, H; Langebeck, A; Köhler, H; Seefeld, T; Vollertsen, F

Dry strip drawing tests on tool surfaces reinforced with hard particles
Proc. Of the 12th International Conference The "A" Coatings 2016, eds. K. Bobzin, K.-D. Bouzakis, B. Denkena, H. J. Meier, M. Merklein. TEWISS-Technik und Wissen GmbH (PZH Verlag) Hannover, Bd. 3 (2016) 169

Freiße, H; Köhler, H; Seefeld, T; Vollertsen, F

Dry metal forming of high alloy steel using laser generated aluminum bronze tools
4th International Conference on New Forming Technology (ICNFT), eds.: Y. Qin, T.A. Dean, J. Lin, S.J. Yuan and F. Vollertsen. Material Science, Engineering and Chemistry. Matec Web of Conferences, Vol. 21 (2015)08011-1-6
[DOI:10.1051/mateconf/20152108011](https://doi.org/10.1051/mateconf/20152108011)

b) Sonstige / Other

Ditsche, A; Seefeld, T

Surface coating for the lubricant-free deep drawing of high-alloy stainless steels
Dry Met. Forming OAJ FMT 6 (2020) 302-315
https://www.trockenumformen.de/app/download/10613244/DMFOAJ_6_2020_302-315_Ditsche.pdf

Ditsche, A; Freiße, H; Seefeld, T

Trockenumformung: Metal-Matrix-Composite Oberflächen für ein schmierstoffreies Tiefziehen
Laser Magazin 4 (2018) 56

Freiße, H; Schmidt, S; Seefeld, T

Characterization of the tribological behaviour of tool surfaces depending on higher contact pressures
Dry Met. Forming OAJ FMT 4 (2018) 52-58
<http://nbn-resolving.de/urn:nbn:de:gbv:46-00106399-10>

Freiße, H; Vetter, K; Seefeld, T; Vollertsen, F

Applying laser dispersion and laser ablation to generate functional layers for deep drawing tools
Lasers in Manufacturing (LIM17) eds.: L. Overmeyer, U. Reisgen, A. Ostendorf, M. Schmidt (2017)
https://www.wlt.de/lim/Proceedings2017/Data/PDF/Contribution5_final.pdf

Freiße, H; Hohenäcker, V; Seefeld, T; Vollertsen, F

Laser generated tool surface out of metal matrix composite
Dry Met. Forming OAJ FMT 3 (2017) 041-044
<http://nbn-resolving.de/urn:nbn:de:gbv:46-00105726-14>

Almohallami, A; Arghavani, M; Böhmermann, F; Freiße, H; Herrmann, M; Mousavi, A; Schöler, S; Scholz, P; Tenner, J; Teller, M; Umlauf, G; Wulff, D; Yilkiran, D; Maier, HJ

How dry is dry? – A critical analysis of surface conditions used in dry metal forming
Dry Met. Forming OAJ, FMT 3 (2017) 90-94
<http://nbn-resolving.de/urn:nbn:de:gbv:46-00105947-10>

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Dry strip drawing test on tool surfaces reinforced by hard particles
Dry Met. Forming OAJ FMT 2 (2016) 001-006
<http://nbn-resolving.de/urn:nbn:de:gbv:46-00105199-11>

Freiße, H; Stroth, M; Seefeld, T; Vollertsen, F Laser generated cooling channel in a forming tool

Dry Met. Forming OAJ FMT 1 (2015) 134-136

<http://nbn-resolving.de/urn:nbn:de:gbv:46-00104818-16>

Freiße, H; Vorholt, J; Seefeld, T; Vollertsen, F

Additive Manufacturing of a deep drawing tool

Lasers in Manufacturing (LIM15) eds.: T. Graf, C. Emmelmann, L. Overmeyer, F. Vollertsen (2015) paper no. 311

https://www.wlt.de/lm/Proceedings2015/Stick/PDF/Contribution311_final.pdf

Freiße, H; Vorholt, J; Seefeld, T; Vollertsen, F

Additive Manufacturing of a deep drawing tool by direct laser deposition

Dry Met. Forming OAJ FMT 1 (2015) 5-10

<http://nbn-resolving.de/urn:nbn:de:gbv:46-00104213-11>