

精密成形工程

JOURNAL OF NETSHAPE FORMING ENGINEERING

月刊 2022.10

封面文章

内高压成形合模力对变径管尺寸精度的影响

作者 / 崔晓磊 / 王祎纯 / 温时宇 / 徐旺成

精密成形工程

第十四卷
第十期

二〇二三年十月

目次 CONTENTS

塑性成形 Plastic Forming

1 液态模锻材料及其研究进展

Materials for Molten Metal Die Forging (MM MDF) and Their Research Progress

邢书明, 高文静, 闫光远, 鲍培玮, 潘琦俊, 胡柏丽, 王超, 叶伍文

XING Shu-ming, GAO Wen-jing, YAN Guang-yuan, BAO Pei-wei, PAN Qi-jun, HU Bai-li, WANG Chao, YE Wu-wen

12 内高压成形合模力对变径管尺寸精度的影响

Influence of Clamping Force on Dimensional Accuracy of Variable-diameter Tubular Part in Hydroforming

崔晓磊, 王祎纯, 温时宇, 徐旺成

CUI Xiao-lei, WANG Yi-chun, WEN Shi-yu, XU Wang-cheng

19 等温压缩工艺参数对 N-BK7 玻璃元件失效的影响

Effect of Isothermal Compression Process Parameters on the Failure of N-BK7 Glass Element

李健志, 杨高, 龚峰

LI Jian-zhi, YANG Gao, GONG Feng

26 航空锻件常见外观缺陷及其控制研究

Study on Control of Common Appearance Defects of Aviation Forgings

孙朝远, 周杰, 赵博, 蒋佳君, 谢静, 刘洋

SUN Chao-yuan, ZHOU Jie, ZHAO Bo, JIANG Jia-jun, XIE Jing, LIU Yang

34 不同加工成形方法对银靶微观组织性能的影响

Effect of Different Processing Methods on Microstructure Properties of Silver Target

窦程亮, 柳旭, 黄晓猛, 齐岳峰

DOU Cheng-liang, LIU Xu, HUANG Xiao-meng, QI Yue-feng

40 连续变通道挤压-剪切工艺对镁合金薄壁管材组织性能的影响

Effect of Continuous Variable Cross-section Extrusion and Shear(CVCES) on Microstructures and Properties of Magnesium Alloy Thinned-wall Tube

张威, 胡红军, 张慧玲, 赵健行, 赵辉, 张丁非

ZHANG Wei, HU Hong-jun, ZHANG Hui-ling, ZHAO Jian-xing, ZHAO Hui, ZHANG Ding-fei

49 DP780 高强度 U 形弯曲回弹影响因素及优化

Influence Factors and Optimization of U-shaped Bending Springback of DP780 High-strength Steel

丁华锋, 潘俊杰, 晏洋, 金先志, 李红兵, 胡泽奇, 周昌钰

DING Hua-feng, PAN Jun-jie, YAN yang, JIN Xian-zhi, LI Hong-bing, HU Ze-qi, ZHOU Chang-yu

56 A356 铝合金车轮轮辋旋压成形工艺优化

Optimization of Spinning Process for A356 Aluminum Alloy Wheel Rim

张立娟, 常海平, 罗文哲, 黄长清

ZHANG Li-juan, CHANG Hai-ping, LUO Wen-zhe, HUANG Chang-qing

63 空化水射流冲击微成形数值模拟与实验研究

Numerical Simulation and Experimental Study of Cavitation Water Jet Impact Microforming

张宁菊, 李富柱, 黄天博

ZHANG Ning-ju, LI Fu-zhu, HUANG Tian-bo

71 管式充液成形生产线效率分析

Efficiency Analysis of Tubular Hydroforming Production Line

张绍君, 卜嘉音, 王林, 马新, 贾振越, 王耀

ZHANG Shao-jun, BU Jia-yin, WANG Lin, MA Xin, JIA Zhen-yue, LANG Li-hui, WANG Yao

78 大线能量钢板 EH40 轧制工艺和焊接性能研究

Research on Rolling Process and Welding Properties of EH40 Suitable for Large Heat Input Welding

王纳, 张宇, 麻晗, 秦亚飞

WANG Na, ZHANG Yu, MA Han, QIN Ya-fei

先进焊接与连接 Advanced Welding and Joining

85 TC4 合金等离子-MIG 复合焊过程温度场的数值模拟

Simulation of Temperature Field in Plasma-MIG Hybrid Welding of TC4 Alloy

王卓然, 曾敏

WANG Zhuo-ran, ZENG Min

91 5A02 铝合金 TG-TLP 焊接接头的组织及性能

Effect of Temperature Gradient on 5A02 Aluminum Alloy Welded by TG-TLP

程国文, 牛文涛, 谢吉林, 徐维义, 张成聪, 黄永德

CHENG Guo-wen, NIU Wen-tao, XIE Ji-lin, XU Wei-yi, ZHANG Cheng-cong, HUANG Yong-de

98 基于熔池图像特征的焊缝质量指标设计与分析

Design and Analysis of Weld Quality Index Based on Image Features of Molten Pool

徐梓惠, 姚屏, 宾坤, 陈晔, 何剑朋, 陈飞昕

XU Zi-hui, YAO Ping, BIN Kun, CHEN Ye, HE Jian-peng, CHEN Fei-xin

105 活性剂对铁素体不锈钢 A-TIG 接头熔深及组织性能研究

Study on Penetration Depth and Microstructure Properties of Ferritic Stainless Steel A-TIG Welding Joint

朱嘉文, 李佳, 杨成刚, 吴集思, 张鑫

ZHU Jia-wen, LI Jia, YANG Cheng-Gang, WU Ji-Si, ZHANG Xin

113 ZK60 镁合金光纤激光焊接工艺参数及接头性能研究

Technology and Joint Performance Research of Fiber Laser Welded ZK60 Magnesium Alloy

马龙, 吴恒

MA Long, WU Heng

120 不锈钢激光点焊接头组织和力学性能研究

Microstructure and Mechanical Properties of Stainless Steel Laser Spot Welding Joints

王丽娟, 牛瑞利

WANG Li-juan, NIU Rui-li

增材制造 Additive Manufacturing

126 激光选区熔化成形工艺对 304L 不锈钢冲击韧性的影响

Effect of Selective Laser Melting Process on Impact Toughness of 304L Stainless Steel

李艳丽, 吴代建, 陈诚, 门正兴, 张宏

LI Yan-li, WU Dai-jian, CHEN Cheng, MEN Zheng-xing, ZHANG Hong

133 激光熔化沉积铝合金显微组织及力学性能

Microstructure and Mechanical Properties of Aluminum Alloy Deposited by Laser Melting

张建巧, 孙旋, 罗兆伟

ZHANG Jian-qiao, SUN Xuan, LUO Zhao-wei

139 选区激光熔化用高强合金钢粉末制备及其成形性研究

Preparation and Formability of High-strength Alloy Steel Powder for Selective Laser Melting

居琪萍, 汪立高, 魏明炜

JU Qi-ping, WANG Li-Gao, WEI Ming-Wei

应用技术 Applied Technology

147 模具电极加工生产线设备信息管理系统的设计与开发

Design and Development of the Information Management System for the Die Electrode Processing Line

程思竹, 罗永康, 肖刚锋, 程秀全, 吕佳穗

CHENG Si-zhu, LUO Yong-kang, XIAO Gang-feng, CHENG Xiu-quan, LYU Jia-sui

155 基于局部应变能密度法的缺口多轴疲劳寿命评估

Assessment of Notch Multiaxial Fatigue Life Based on Local Strain Energy Density Method

张云平

ZHANG Yun-ping

广告索引

封二 国防科技工业复杂构件挤压成形技术创新中心

插页

封三 西南技术工程研究所

A1 国防科技工业复杂构件挤压成形技术创新中心

A2 表面技术杂志

期刊基本参数: CN 50-1199/TB * 1983 * m * A4 * 161 * zh * P * ¥35.00 * 5000 * 22 * 2022-10

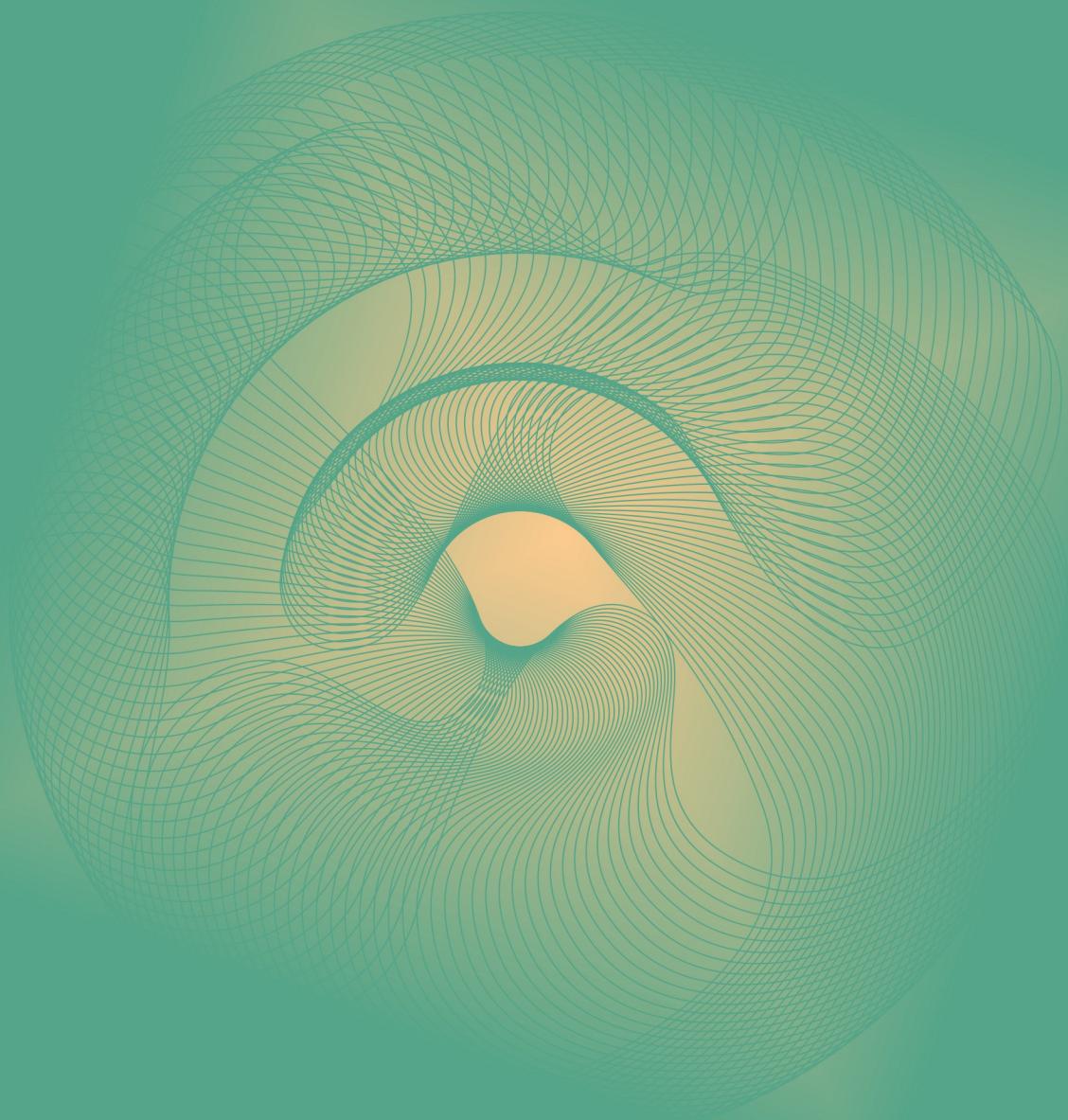


精密成形工程

主办单位:

中国兵器工业第五九研究所

国防科技工业精密塑性成形技术研究应用中心



精密成形工程

第十四卷
第十期

二〇二三年十月

ISSN 1674-6457

连续出版物号

ISSN 1674-6457
CN 50-1199/TB

邮发代号: 78-235 定价: 35.00元



9 771674 645224

万方数据