

独家策划 数控系统在中国——系列报道之六.....专题专访后

Exclusive Mastermind, CNC System in China —— Series of Reports VI

国内外动态 Information at Home and Abroad.....1

专题专访 Special Topics & Interview

路漫漫其修远兮 吾将上下而求索.....	本刊记者 余 捷 6
——记中国机床工具工业协会第六届第四次常务理事会（扩大）会议 There Is Still a Long Way to Achieve Final Success, I Will Seek Up and Down	Reporter YU Jie
制造业创造未来，成就梦想.....	本刊记者 梁 玉 11
——JIMTOF 2010 展会概览 Manufacturing Industry Creates the Future, Realizes the Dream	Reporter LIANG Yu
知识改变命运 技能成就梦想.....	本刊记者 汪 艺 16
——北京市职工职业技能大赛暨第四届北京市职工数控技能大赛决赛报道 Knowledge Changes One's Fate, Skill Realizes One's Dream	Reporter WANG Yi
让世界转起来.....	本刊记者 谭弘颖 17
——记 2010 铁姆肯公司中国科技峰会 Keep the World Turning	Reporter TAN Hongying
顺应市场，推陈出新.....	本刊记者 梁 玉 19
——山高刀具 2010 秋季新产品发布会暨媒体恳谈会小记 Complying with Market, Bringing out New Products	Reporter LIANG Yu
打造一个专业的交流平台.....	本刊记者 刘 艳 20
——欧特克 2010 年度卓越工程师评选颁奖典礼 Making a Professional Communication Platform	Reporter LIU Yan
——Autodesk 2010 Awarding Ceremony for Excellent Engineer	

智能化技术 Intelligent Technology

加工中心防碰撞措施探讨.....	殷 翔 21
The Discussion of Collision Prevention in CNC Machining Center	YIN Xiang
基于 AMESim 的静压导轨自适应供油系统的研究.....	张 亮 戴惠良 刘思仁 25
Study on the Self-Adaptive Oil Supply System of Hydrostatic Slider Based on AMESim	ZHANG Liang, DAI Hui liang, LIU Siren
基于 CBR-RBR 的工艺专家系统在滚动轴承磨削中的应用.....	邓朝晖 于振金 张晓红 蔡英 朱凯旋 29
Application of Process Expert System Based on CBR-RBR in Rolling Bearing Grinding	DENG Zhaohui, YU Jinzheng, et al.
基于 BP 神经网络的盘形成形铣刀的刀具磨损诊断研究.....	陈 捷 张成强 34
Research on Tool Wearing Diagnosis of Disk Milling Cutter Based on BP Neural Network	CHEN Jie, ZHANG Chengqiang
一种液压恒功率自适应控制系统设计.....	姚春东 姜桂荣 38
The Design of a Constant Power Adaptive Control Hydraulic System	YAO Chundong, JIANG Guirong
基于模糊分类的炭素制品 X 射线图像的缺陷识别研究.....	叶邦彦 刘晓楠 41
The Defect Recognition Research of Carbon Products X-ray Images Based on Fuzzy Classification	YE Bangyan, LIU Xiaonan
基于模糊 PD 控制理论的电解加工机床控制系统研究.....	郑华林 彭钢 陈坚 45
Study on Electrochemical Machining Machine Tool Control System Based on Fuzzy PD Control Theory	ZHENG Hualin, PENG Gang, et al.

综述 Special Reports

我国机床制造业发展途中必须解决的几个核心问题.....	常全富 50
——中国数控机床展引发的思考 Several Core Issues Which Must Be Settled during Chinese Machine Tool Manufacturing Industry Development	CHANG Quanfu
——Thought about CCMT 2010	

设计与研究 Design and Research

基于 Proteus 的双直流稳压电源的设计与仿真.....	李雪丽 陈伟 李运生 赵惠英 赵则祥	53
Design and Simulation of Dual DC Regulated Power Supply Based on Proteus	LI Xueli, CHEN Wei, LI Yunsheng, ZHAO Huiying, et al.	
基于模糊可靠性理论的玉器雕机主轴优化设计.....	石怀荣 芮延年	57
The Optimization Design for the Spindle of Multifunctional Jade Sculpture Machine Based on the Theory of Fuzzy Reliability	SHI Hairong, RUI Yannian	
基于 ARM+FPGA 的嵌入式数控装置设计.....	费继友 周茉	61
Design of Embedded CNC Device Based on ARM + FPGA	FEI Jiyou, ZHOU Mo	
基于 Solidworks 建立轴承标准件库方法的探究.....	姜玉珍	64
Research of Establishing Bearing-standard-library Based on Solidworks	JIANG Yuzhen	
液压举升机构的高精度同步控制系统设计与仿真.....	刘忠 梁承杰 资富年	67
Simulation and Design on High Precision Synchronization System of Hydraulic Lifting Mechanism	LIU Zhong, LIANG Chengjie, ZI Funian	
一种新型的数控维修实训设备的研制与开发.....	汪彬 张龙	71
Research and Development of a New Type of CNC Maintenance Training Equipment	WANG Bin, ZHANG Long	
便携式复合功能磁吸气割机设计.....	蒋晓刚 黄徐琦 蔡华春 曹罡	75
The Design of Portable-multipurpose Magnetic-gas Cutting Machine	JIANG Xiaogang, HUANG Xuqi, CAI Huachun, CAO Gang	
圆孔火焰切割专机的设计及应用.....	吴小邦 尤新华	76
Design and Application of Hole Flame Cutting Machine	WU Xiaobang, YOU Xinhua	
嵌入式数控系统加工仿真功能的研究与开发.....	肖苏华 李迪	80
Research and Development of Embedded CNC Machining Simulation	XIAO Suhua, LI Di	
基于有限元的双滚珠丝杠同步驱动轴动力学建模与分析.....	何王勇 唐小琦 李勇波	83
Dynamics Modeling and Analysis of a Motion Axis Driven by a Synchronous Dual Ball Screw Based on FEA	HE Wangyong, et al.	

工艺与检测 Technology and Test

数控立式铣床立柱定位的注胶工艺.....	梁桂芝 李忠亮 尹玉生 陈亚菊	87
Injection Technology of CNC Vertical Milling Machine Pillar Position	LIANG Guizhi, LI Zhongliang, YIN Yusheng, CHEN Yaju	
大圆周分布孔的分段镗削法.....	康红艳 许艺萍 邹聆昊	89
The Section Boring Method in Distribution of Large Diameter Circular Distribution Holes	KANG Hongyan, XU Yiping, ZOU Linghao	
气弹簧缸体一次成形技术.....	曾聪敏 杨芳	93
Forming Technology of Air Springs Cylinder	ZENG Congmin, YANG Fang	
坐标变换在大半径短圆弧精密测量中的应用.....	刘兴富	96
Application of Coordinate Transformation in the Large Radius Short Arc Precision Measurement	LIU Xingfu	
注塑模具硬态高速铣削力研究.....	黄红辉 王凌云	100
Milling Force of Plastic Mold Parts in the High Speed Hard Milling	HUANG Honghui, WANG Lingyun	
位图矢量化在激光雕刻技术中的应用.....	张金龙 宋文学	104
Application of Picture Vectorization in Laser Engraving Technology	ZHANG Jinlong, SONG Wenxue	
微切削加工 Al7050-T7451 过程力学性能及表面完整性研究.....	魏永强 周军	107
The Study on Forces and Surface Integrity in Microcutting Al7050-T7451 Process	WEI Yongqiang, ZHOU Jun	
精密刀库机械手换刀位置调整工具.....	宋明宽	113
Precise Position Adjusting Facility for Mechanical Tools Changing	SONG Mingkuan	
高速铣削与数控编程技术.....	刘波 张世蓉 贾凤瑞 李红义	114
The Technology of High-speed Milling and NC Programming	LIU Bo, ZHANG Shirong, JIA Fengrui, LI Hongyi	
陶瓷 / 金属复合材料制备工艺及实验装置设计.....	贺辛亥 王俊勃 申明乾 杨敏鸽 付 赵郁	118
Ceramic/Metal Composites Technology and Experimental Device	HE Xinhai, WANG Junbo, SHEN Mingqian, YANG Minge, et al.	

改装与维修 Refitting and Maintenance

JCS-013 卧式加工中心主轴故障维修.....	屈建喜 司昌炼 李麒	122
Main Axle Service of the Horizontal Machining Center JCS-013	QU Jianxi, SI Changlian, LI Qi	

PMC 诊断功能在数控机床故障诊断与维修中的应用.....	韩少诚 马运顶	124
Application of PMC Diagnose Function in the CNC Machine Malfunction Diagnose and Maintenance	HAN Shaocheng, MA Yunding	
数控机床典型抖动故障的分析检修与应对策略探讨.....	彭志军	126
The Analyzing and Diagnosing about the Typical Shaking Fault of CNC Machine Tools and Tactics Researching	PENG Zhijun	

功能部件 Function Units

重型卧式车床尾座顶紧力测控装置的研究.....	薛红睿	130
Measuring and Control Device of Heavy Horizontal Lathe Tailstock Top Tight Force	XUE Hongrui	
基于 ABAQUS 的机床主轴箱冲击运动分析.....	王延忠 吕晓宇 孙红梅 刘强 高琦 沈华红 王世慧	132
Impact Motion Analysis of the Machining Center's Headstock Based on ABAQUS	WANG Yanzhong, LV Xiaoyu, SUN Hongmei, et al.	
一种新型砂轮修整器结构及其分析.....	孔振 陶卫军 冯虎田	135
Structure and Analysis of a New Grinding Wheel Dresser	KONG Zhen, TAO Weijun, FENG Huitian	
随夹的自动定位夹紧装置的设计.....	李瑾 李婕 陈涛	140
Design of the Accompanying Jig's Automatic Position and Clamping Device	LI Jin, LI Jie, CHEN Tao	
圆柱包络法形成的单螺杆压缩机啮合区的研究.....	沈阳 栾会玲 王可	142
Research on the Meshing Zones of Single Screw Compressor Formed by Cylindrical Milling	SHEN Yang, LUAN Huiling, WANG Ke	

模具技术 Moulds & Dies

大型塑料托盘注塑成形分析的 FEA 模型创建.....	段贤勇 何顺荣	145
FEA Model Creation of Injection Analysis in Large Plastic Pallet	DUAN Xianyong, HE Shunrong	
模具型面定位五轴加工刀轴方向的优化方法.....	周学良 阮景奎	148
Optimizing Method of Tool Axial Direction of Positional 5-Axis Machining of Die Surfaces	ZHOU Xueliang, RUAN Jingkui	

数控专刊 CNC Seminar

DELCAM 数控软件在“2009 全国大学生工程训练综合能力竞赛”中的应用解析.....	吴波 金绍江	152
Application of DELCAM NC Software in “2009 National Undergraduate Engineering Training Integration Ability Competition”	WU Bo, JIN Shaojiang	
MasterCAM 下西门子钻镗循环的后处理定制技术.....	詹华西 陈亭志	155
Siemens Drilling and Boring Cycle's Post Process Customization Technology Based on MasterCAM	ZHAN Huaxi, CHEN Tingzhi	
正弦函数平方曲线加减速算法研究.....	孙建仁 胡赤兵 王保民	158
Research on a Squared Sine Function Shape Curve Acceleration and Deceleration Algorithm of Continuous Jerk	SUN Jianren, et al.	

广告导航 Leading to Advertisements.....	目录后页
书讯 New Books.....	28、33、52、60、88、112、125、129、134、151、171
更正 Corrections.....	40
2010年《制造技术与机床》总目次.....	162
投稿须知 Notice for Contribution.....	172

下期精彩内容预告

- ◆硬质合金YG8高速磨削工艺试验研究
- ◆Al₂O₃基纳米复合陶瓷刀具切削不锈钢的实验研究
- ◆实施数控设备用户满意工程正朝着健康方向发展
- ◆面向高能效制造的数控机床发展展望
- ◆铝合金Al2024铣削仿真分析与实验研究
- ◆工模间隙率对大径厚比筒形件旋压稳定性的影响研究
- ◆等效法在求解叶片泵排量中的应用研究
- ◆连续变截面板及其应用中存在的关键问题