

起重运输机械®



QIZHONG YUNSHU JIXIE

HOISTING AND CONVEYING MACHINERY

2021 17

2021年9月
中国机械工业联合会 主管

起重运输机械



2021年第十七期(九月)



安全可靠 坚固耐用 维护简便 高效便捷

STAHL CraneSystems

是全球先进的葫芦和起重机部件制造商之一，是防爆起重技术方面的专家，产品独具特色并且丰富全面，满足多样化需求。我们为您提供一站式、定制化的工程解决方案

万方数据

斯泰尔起重设备(上海)有限公司

STAHL CraneSystems(Shanghai) Co.,Ltd

地址: 上海市普陀区怒江北路399号901室

电话: 021-66083737

邮箱: infochina@stahlcranes.com

网址: www.stahlcranes.com.cn

ISSN 1001-0785



17>

(广告)

CONTENTS

目录

◆ 业内资讯 | INFORMATION

P16 中国机械联召开推进会 力促机械工业基础高级化、产业链现代化

CMIF holds a promotion meeting to promote advanced machinery industry foundation and industrial chain modernization

9月8日,中国机械联组织召开“全国机械工业产业基础高级化、产业链现代化推进会”。

On September 8, China Machinery Industry Federation organized and held the “National Promotion Meeting for Advanced Industrial Foundation and Industrial Chain Modernization of Machinery Industry”.



江苏港口新上线两操作系统 智慧港口建设添新成果

Jiangsu Port launches two new operating systems, adding new achievements in construction of smart ports

近日,“运河集装箱TOS系统”和“流程电动料斗智能集中控制系统”分别在徐州国际集装箱码头、扬子江港务成功上线,科技创新的引擎作用进一步凸显。

Recently, “Canal Container TOS System” and “Intelligent Centralized Control System of Process Electric Hopper” were successfully launched at Xuzhou International Container Terminal and Yangtze River Port, respectively, and the engine function of technological innovation has become further highlighted.



坚持科技创新 推动融合发展——中工国际设立科技发展部

Persist in technological innovation and promote integrated development-CAMCE establishes the Technology Development Department

P17 北海电厂新建工程 SEW 立磨减速机下线仪式隆重召开

Beihai Power Plant holds the grand launch ceremony of SEW vertical mill reducer

ZPMC6 台轮胎吊顺利发运上海浦东

ZPMC's 6 tire cranes are successfully shipped to Shanghai Zhendong

灵动科技获人民日报点赞,硬核实力再受认可!

Praised by the People's Daily, Forwardx is recognized again by its hardcore strength!

◆ 特别报道 | SPECIAL REPORT

P18 《起重运输机械》青年编辑委员会待任编委名单公示

The list of pending members of the Young Editorial Committee of Hoisting and Conveying Machinery is released

◆ 会议报道 | CONFERENCE REPORT

P20 中工国际:“十四五”战略规划发布,践行国内国际双循环

CAMCE: The “14th Five-Year” strategic plan is released to implement the domestic and international dual circulation

9月8日下午,中工国际(002051.SZ)召开“十四五”战略规划发布会。公司首次将“二次创业”理念纳入战略规划中,并宣布未来将启动业务创新和转型,奋力实现国内国际双循环相互促进的新发展格局。

On the afternoon of September 8, CAMCE (002051.SZ) held the “14th Five-Year” strategic planning meeting. For the first time, the company incorporated the concept of “secondary entrepreneurship” into its strategic planning, and announced to initiate business innovation and transformation in the future, striving to achieve the new development pattern featured by mutual promotion of domestic and international dual circulation.



P23 2021年ISO/TC96/SC5国际标准会议以视频会议形式召开

2021 ISO/TC96/SC5 International Standard Conference is held in form of video conference

◆ 编委之声 | VOICE OF EDITORS

P24 尹军琪:科技为“伍”“强”化创新“智能”升级“科技”引领

Yin Junqi: VSTRONG strengthens innovation with technology and leads in “technology” with “intelligent” upgrade



近20年来,随着物流市场的蓬勃发展,我国物流系统集成商也迎来了一波快速发展期。北京伍强智能科技有限公司就是这样一家集成商,作为科技型服务公司,伍强科技已完成众多代表性、示范性的物流中心项目,持续引领行业发展。就伍强科技的创建初衷、发展历程、行业前景、技术趋势等话题,董事长尹军琪在北京总部接受了本刊专访。

In the recent two decades, China's logistics system integrators have ushered in a period of rapid development with vigorous development of the logistics market. Beijing VSTRONG Technology Co., Ltd. is an integrator that has completed many representative and exemplary logistics center projects and continues to lead the industry development as a technology-based service company. On topics such as VSTRONG Technology's original intention, development history, industry prospects, technology trends, etc., Chairman Yin Junqi accepted an exclusive interview with the Journal at the Beijing headquarters.

◆ 专栏 | COLUMN

P28 推进数字化转型的五个任务方向

Five mission directions for boosting digital transformation

分析研究 | ANALYSIS RESEARCH

履带起重机主臂风场流固耦合分析*/姚峰林 崔耀东 孟文俊 李辉 石国善.....	30
Fluid-structure coupling analysis of wind field of crawler crane main boom/Yao Fenglin, Cui Yaodong, Meng Wenjun, Li Hui, Shi Guoshan	
基于量纲分析方法的水平螺旋输送机离散元仿真研究/李郁 崔可源.....	36
Discrete element simulation of horizontal screw conveyor based on dimensional analysis method/Li Yu, Cui Keyuan	
船用起重机吊重减摇控制方法及仿真研究/王旭辉 曹旭阳 王殿龙.....	41
Research on anti-swing control method and simulation of load of ship crane/Wang Xuhui, Cao Xuyang, Wang Dianlong	
在役起重机械防风抗滑性能评估方法研究*/何山 陈敏.....	47
On the evaluation method of windproof and anti-sliding performance of hoisting machinery in service/He Shan, Chen Min	
制动器静态制动力矩与动态制动力矩的对比/张国臣.....	51
Comparison of static braking torque and dynamic braking torque of brake/Zhang Guochen	
钢架结构及涂层承载能力分析/王书浩.....	55
Analysis of steel frame structure and bearing capacity of coating/Wang Shuhao	

设备技术 | EQUIPMENT TECHNOLOGY

安全激光扫描仪在工业车辆防碰撞中的应用/兰婉玉 刘冠伯 韩晴晴.....	59
Application of safety laser scanner in anti-collision of industrial vehicles/Lan Wanyu, Liu Guanbo, Han Qingqing	
轮胎式起重机小车运行齿条施工关键技术/黄叶锋 王培娟.....	63
Key construction technology of running rack of tire crane trolley/Huang Yefeng, Wang Peijuan	

信息技术 | INFORMATION TECHNOLOGY

一种用于起重机械的离散数据采集分析系统系统设计/常中龙 赵丽媛 鄢鹏程.....	67
Design of a discrete data collection and analysis system for hoisting machinery/Chang Zhonglong, Zhao Liyuan, Yan Pengcheng	

新产品新技术 | NEW PRODUCT NEW TECHNOLOGY

900 t 缆载起重机设计*/梁辉.....	72
Design of 900 t cable crane/Liang Hui	
腰部外骨骼线性自抗扰控制研究*/季心宇 吴洪明 王大帅 徐克锋 孙健铨.....	79
On linear active disturbance rejection control of lumbar exoskeleton/Ji Xinyu, Wu Hongming, Wang Dashuai, Xu Kefeng, Sun Jianquan	

测试试验 | TESTING EXPERIMENT

轿厢意外移动保护装置检验要点的研究*/姚国龙 石乐 尹鹏 吴尚兵.....	84
On Key inspection points of car accidental movement protection device/Yao Guolong, Shi Le, Yin Peng, Wu Shangbing	