



# 目次 Contents

## 工程聚焦 Project Focus

- 01** 松花江大桥扩建工程获国家批复 言西早  
Songhua River Bridge Expansion Project is Approved
- 02** 牡丹江至镜泊湖将建轻轨 张波  
Light Rail Will Be Constructed from Mudanjiang to Jingpohu
- 03** 宁波舟山第二座跨海大桥年底开工 晟华  
Second Cross-sea Bridge of Ningbo-Zhoushan Starts Construction in the End of This Year
- 04** 广珠铁路高速前进 杜卫华  
Guangzhou-Zhuhai Railway Project Goes Forward at High Speed

## 独家视角 Exclusive View

- 07** 美国高铁困局 Liam Julian  
The Trouble with High-Speed Rail

## 行业动态 Business & Trend

- 13** 三一新一代SR360旋挖钻捷战世界最大跨度铁路桥 郑纪攀  
New SR360 Rotary Drilling Machine of SANY is Successfully Applied to Railway Bridge with Largest Span
- 15** 续写新的百年辉煌 唐伟琼  
Continue to Write a New Century of Glory
- 17** 石家庄:英达热再生机组让“30岁”老路重焕青春 龚鲁义  
Shijiazhuang: Freetech Hot Recycling Set Makes 30 Years Old Road Return to Youth

## 本刊特稿 Special Story

- 20** 铁路路基新型支挡结构 冯瑞玲  
New Retaining Structures for Railway Subgrade
- 24** 公路支挡结构类型及设计、施工技术要点探讨 张小荣





# 目次 Contents

Discussion on Design and Construction Technology of Highway Retaining Structure

- 28** 山区公路路基新型支挡结构 俞永华  
New Types of Retaining Structures for Highway Subgrade in Mountainous Area

## 产品大观 Product Overview

- 34** 德基机械DG5000型沥青搅拌站 张宇  
DG5000 Asphalt Mixing Plant of D&G Machinery
- 35** 山推SR20M-E/SR20MP-E振动压路机 丁兴华  
SR20M-E and SR20MP-E Vibratory Rollers of Shantui
- 36** 全球最重全液压轮胎压路机实现销售 谭建国  
Heaviest Hydraulic Tire Roller in the World Starts Selling

## 管理大家谈 Management Forum

- 37** 设备管理Q&A谈 魏晓江  
Q&A of Equipment Management

## 施工机械 & 施工技术 Construction Machinery & Construction Technology

- 39** 水泥稳定碎石基层离析原因及防治措施 冉明, 张华  
Causes of Segregation and Preventative Measures for Cement Stabilized Macadam Base
- 41** 煤矸石填筑路基冲击压实施工关键技术研究 申文胜  
Study on Key Construction Techniques of Impact Compaction of Coal Gangue Subgrade
- 44** 振动成型法的施工工艺与质量控制 曹裕兴, 刘骏  
Construction Technology and Quality Control of Vibratory Shaping Method
- 47** 双层钢筋混凝土路面荷载应力分析 赵华, 陈栓发  
Analysis on Load Stress of Double-layer Reinforced Concrete Pavement
- 51** 土石方工程施工机械的合理配置 李建涛  
Reasonable Deployment of Construction Machinery in Earthwork





# 目次 Contents

## 养护机械 & 施工技术 Maintenance Machinery & Construction Technology

- 54** 雾封层技术在高速公路预防性养护中的应用 张朝山  
Application of Fog Sealing Technology in Preventive Maintenance of Expressway
- 57** 微表处施工常见问题与处治措施 付亚琴, 苏旭盛, 贾宝航  
Common Problems and Treatment Measures of Micro-surfacing Construction
- 60** 水泥稳定碎石基层裂缝的控制 张丽宏, 廖福星, 刘巨伟  
Cracks Control of Cement Stabilized Macadam Base

## 桥隧机械 & 施工技术 Bridge and Tunnel Machinery & Construction Technology

- 64** 赣江西支持大桥深水基础施工技术研究 占劲松, 涂文玲  
Research on Construction Technology for Deep-water Foundation of Ganjiang West-branch Grand Bridge
- 67** 粘贴加固材料厚度与钢筋混凝土T梁极限承载力分析 张柳煜, 邬晓光, 李启乾  
Analysis on Thickness of Reinforcement Material and Ultimate Bearing Capacity of RC T-section Beams Strengthened with Steel Plate and CFRP
- 70** TSP203超前地质预报系统在田坝岭隧道中的应用 赵玉成, 隋传毅, 张艳东  
Application of TSP203 System in Tianbaling Tunnel

## 设备管理 & 维修技术 Equipment Management & Maintenance Technology

- 73** 功率控制对外负荷在发动机调速特性上配置的影响 马鹏宇, 胡永彪, 张忠海  
Influence of Power Control on Load Distribution of Engine Speed Regulation Characteristics
- 76** 公路施工机械的管理工作和控制建议 吴道流  
Management of Road Construction Machinery and Suggestion on Control
- 78** 半挂牵引工程车改装设计研究 鲍晓东  
Study on Transform Design of Semi-trailer Tractor
- 81** 基于虚拟仪器的液压加载测功系统的研究 金立艳, 刘成平, 王道峰  
Study on Power Measuring System of Hydraulic Loading Based on Virtual Instrument

