

CONSTRUCTION MACHINERY TECHNOLOGY & MANAGEMENT

建设机械技术与**管理**

CMTM

中华人民共和国 主管
住房和城乡建设部

No. **06** 2013

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The Key Point of New Water-stabilized Paving Technology
is to Solve the Problems of Liqueate and Compaction



ISSN 1004-0005



9 771004 000136

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封面说明

近二十年来,中国公路建设中半刚性基层沥青路面结构占了很大的比重,而半刚性基层又以水稳层碎石基层为主。对于20cm以上的水稳铺层由于受摊铺及压实设备的限制,采用分层分幅摊铺压实的办法。为消除层间链接,提高了施工效率,近几年公路修建市场出现水稳层大厚度宽幅一次性摊铺成型的新工艺和新设备。对于这样一项新工艺和新设备,其技术上到底取得了哪些进步?该工艺及设备在实际应用中效果如何?新工艺发展的现状和未来的前景是什么?笔者采访了研发生产厂家相关专家以及采用新工艺的施工者,就有关新工艺相关问题进行了采访,读者们可以从中学解读一二。图为2013年4月,中联重科SUPER165超级摊铺机在芜湖市长江南路新建工程项目以16m的摊铺宽度及300mm的摊铺厚度进行稳定土摊铺施工,中联重科SUPER165是目前国内摊铺宽度最宽摊铺厚度最大的摊铺机。



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P47 从bauma 2013展看路面机械发展

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P19**The Key Point of New Water-stabilized Paving Technology is to Solve the Problems of Liquefaction and Compaction**

In recent years, the technology of one-time pavement with thick and wide single machine, changed from the water-stabilized layer pavement with layering dual-machine, has appeared in the road construction market. The pavement thickness of water-stabilized layer with this technology is more than 20cm and the width more than 8cm. With the use of the technology, the water-stabilized layer will be made into an integrated plate structure and the efficiency and quality are also substantially raised. In terms of the construction parties and the proprietors, the new technology has some advantages when compared with the layering and framing construction, but it is not extensively accepted and applied in the whole country because it is not effectively verified and queries exist in the new technology and its maturity. In terms of the R&D manufacturers, the market demands have increased the R&D and promotion intensity of the technology, but the promotion effect is not so desirable because of the specification restriction and technological breakthrough. In 2001, many manufacturers represented by Shanxi Jointark Machinery Group started the R&D and promotion of the thick and wide paver for water-stabilized layer. In 2012, Zoomlion Heavy Industry Science & Technology Development Co., Ltd., backbone enterprise of the domestic paver, launched the super paver in Shanghai bauma Exhibition, of which the pavement width is 16.5m and width 50cm. Such kind of paver began to enter the special market segment and aroused much more extensive attention in the industry.

**P29****The Unreliable Concrete Goes Reliable, Guizhou Chengshangcheng Concrete Producing Fine Concrete in Continuous Gradation Mixing Plant**

Chengshangcheng Concrete Engineering Co., Ltd. won the laurel of the biggest concrete order in Guiyang and people played a joke and said that Zhou Kaiqing got the pennies from the heaven. However, the reason why the 500,000m³ concrete order chose Zhou Kaiqing instead of others indeed afforded much food for thought.

I believe that you will be touched after seriously reading this real case in our report. In the commercial concrete market with fierce competition, we make more painstaking efforts but acquired less we want. Is that because we are not working harder enough? Or are we less competent? No..., see the analysis of this article for the details.

**P59****Sobratema Lighting up Construction and Mining Machinery Market in Brazil**

On April 16, 2013, Brazil Technical Equipment and Maintenance Association (Sobratema) held a press conference at bauma 2013. On the conference, Mr. Marques made an overall introduction (see this issue) of Brazil Construction and mining machinery market between 2013 and 2017. At the same time, the chairman of Sobratema introduced some organization and preparation situations concerning the exhibition. It is estimated that the technological construction with key investment developed in Brazil in the coming 5 years will boost the development of the key Construction machinery industry and heavy equipment spare parts industry as well as the whole supply and service chain. Meanwhile, the sales amount of the Construction machineries will increase by 10.6% averagely till 2017.

At present, Sobratema are holding three exhibitions, of which the most famous one is the M&T Expo-International Exhibition of Construction and Mining Equipment. In 2011, Sobratema launched another two professional trade shows, including Construction Expo-International Trade Show of Solutions for Construction & Infrastructure which will be held from June 5 to 8, 2013. And it is predicted that the second session exhibition, the M&T Parts and Services-Latin-American Trade Fair of Parts and Services for Construction and Mining, will be held from June 4 to 7, 2014. The three exhibitions are held in turn every three years. The situations concerning the construction and mining machinery market of Brazil and the details of the exhibitions will be involved by this editorial.

