

5 结语

矿用钢丝缓冲层 12.00—20 20PR 工程机械轮胎试制成功,成品外观质量优良,充气外缘尺寸和物理性能符合相应设计和国家标准要求。该产

品的抗刺扎和耐磨等性能比原有矿用斜交轮胎显著提高,投入市场后受到用户一致好评,满足了矿山市场的需要,为企业创造了良好的经济效益。

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Design of 12.00—20 20PR Mine Off-the-road Tire with Steel Breaker Ply

YUAN Ding-jun

(Xin'anjiang Branch, Hangzhou Zhongce Rubber Co., Ltd, Jiande 311607, China)

Abstract: The design of 12.00—20 20PR mine off-the-road tire with steel breaker ply was described. In the structure design, the mold design of mine bias tire was used and the following parameters were taken: overall diameter 1 144.5 mm, cross-sectional width 264 mm, width of running surface 228 mm, arc height of running surface 20 mm, bead diameter at rim seat 510 mm, bead width at rim seat 216 mm, maximum width position of cross-section (H_1/H_2) 0.927 3, mixed tread patterns mainly composed of transverse pattern, block/total ratio 63.80%, pattern depth 30 mm, pattern circular pitch 43. In the construction design, the designs of tread, carcass and bead of original tire were kept unchanged, 2 layers of steel breaker ply were used to replace multilayer nylon breaker, and at the same time the ends of steel breaker ply were wrapped by rubber compound. The steel breaker ply was processed on slanting cutting machine, and the tires were built by using 3B bladder turn-up building machine and cured on B-type press. It was confirmed by the test of finished tires that, the inflated peripheral dimension and physical properties met the requirements in the design and national standard.

Key words: off-the-road tire; steel breaker ply; structure design; construction design

米其林 762 mm(30 英寸)跨度 联合收割机轮胎

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美国《现代轮胎经销商》(www.moderntire-dealer.com)2013年8月29日报道:

米其林北美农业轮胎公司称,这个收获季节,使用新的米其林 MegaXBib 580/85R42 168A8/168B 轮胎,农民将能够在其联合收割机上双胎并装较大体积的子午线轮胎,跨幅达到 762 mm(30 英寸)而不需要更换轮辋。

“柔韧的胎侧、超低轮胎充气压力和超大的气室使其具有乘坐舒适性和出色的操纵稳定性,”米其林北美农业轮胎营销经理 James Crouch 说,“该轮胎安装于 DW18×42 轮辋,承载能力强,可减少土壤板结。”

米其林 MegaXBib 是主要针对漂浮和减少压实而设计的轮胎,其宽度窄,不影响 762 mm(30 英寸)的间距空间。超大印痕兼特殊的胎体设计使轮胎在相对低充气压力下具有超负荷能力。

平坦、坚固的胎面有助于最大限度地提高漂浮能力以尽可能减少土壤板结。轮胎可支承日益增大的具有 14 507~16 321 L(400~450 蒲式耳)储存斗等的 22.7 t 大型联合收割机,它比传统的子午线轮胎有助于减少土壤板结。轮胎将于 2013 年下半年上市。

人们可以在 2013 年 8 月 27—29 日伊利诺伊州迪凯特的农业进步展中看到米其林 MegaXBib 和 MachXBib 轮胎的演示。

(吴淑华摘译 李静萍校)