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Influence of Tire Uniformity on Vehicle Running Deviation

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Abstract: In this paper, the measurement standards of tire uniformity was described briefly, and the mechanism and effects of lateral force deviation, conicity and plysteer were analyzed in detail. The tire-induced vehicle running deviation problems were discussed with special emphasis on the conicity of tires. Through real tests, the relationship between the overall conicity of tires on the front axle and vehicle offset was obtained. In practical, precisely controlling conicity and regulating mounting directionality were effective methods to avoid tire-induced vehicle running deviation.

Key words: tire uniformity; conicity; plysteer; vehicle running deviation

Mitas新增VF系列收割机轮胎

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美国《现代轮胎经销商》(www.moderntiredealer.com)2015年8月18日报道:

Mitas推出了应用超高屈挠(VF)技术的联合收割机轮胎。增加了Mitas VF 710/70R42 CFO(循环田间操作)HC 3000(如图1所示)后,该公司现在可提供全系列VF技术的轮胎。



图1 Mitas VF 710/70R42 CFO HC 3000轮胎

Mitas VF 710/70R42 CFO HC 3000是一款新的联合收割机轮胎,具有高屈挠胎侧,可以扩展接地印痕,在许多方面可与橡胶履带竞争。

公司称,与标准轮胎相比, Mitas VF

710/70R42 CFO HC 3000轮胎可在循环田间操作过程中提供更高的最大承载力和较低的充气压力。

与同规格的标准轮胎相比, Mitas VF 710/70R42 CFO HC 3000轮胎在循环田间操作中充气压力可减小26%,从而显著减少土壤板结。除了对土壤保护有直接影响外, Mitas HC 3000轮胎具有更小的断面宽度,给需要提高机动性的农民带来了额外的优势。

“现在Mitas可提供全系列VF技术轮胎。除了HC 3000轮胎专为收割机设计以外, Mitas还为喷撒机提供HC 1000、为大功率拖拉机提供HC 2000轮胎,” Mitas农业轮胎产品经理Pavel Kott说。

Mitas VF 710/70R42 CFO HC 3000轮胎提供“B”速度级别,速度可达 $50 \text{ km} \cdot \text{h}^{-1}$,承载能力可高达 14.31 t ($14.5 \text{ km} \cdot \text{h}^{-1}$ 循环)。这款超高屈挠轮胎的主要优点是具有在任何速度下保持恒定充气压力的能力。

超高屈挠轮胎在美国爱荷华州查尔斯城以及捷克共和国奥特罗科维采的米塔斯工厂生产。VF 710/70R42 CFO HC 3000轮胎现已在美国出售。

(吴淑华摘译 李静萍校)