

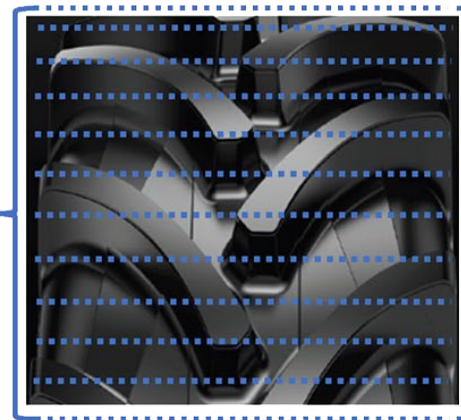
MAXAM Agricultural Technical Bulletin

MAXAM on the Differences Between a Row Crop Sprayer Tire and a Tractor Tire

Like all industries, the agricultural market is constantly being driven by the forces of necessity or by the need to improve an existing product to meet evolving demands. Specifically, when we look at the evolution of agricultural tires to the 45° lug design, this technology improvement has been one of the tire industry's most significant design pillars adopted by all tire manufacturers. The 45° angle tread approach was started in the European market as a solution addressing the lug to void spacing of older tread designs resulting in tire vibration, loss of traction, increased slip, and more fuel consumption when roading or moving tractors from field to field. Comparing tires used in both MFWD or 4WD Tractors and self-propelled or towed sprayers, the common element inherent to both is the requirement of roading the equipment from operation to operation. From the MAXAM perspective the 45° lug design inherent in all our AGRIXTRA family of products allows us the following features and benefits:

Tread Design Advantage:

45° lug design ensures the best profile for superior traction & minimal vibration (when roading): **Constant Contact!**



Road
Surface

Design Feature Benefits:

- Constant Lug Contact = **Improved Traction**
- Improved Traction = **Fuel Efficiency = Grip**
- Minimal Lug to Void Ratio = **Minimal Vibration**
- Thick Lug Center = **Tread Stability & ▶ Wear**





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The advent of VF technology or tires that can carry 40% more load at standard air pressures has allowed high clearance self-propelled sprayer tires the ability to carry the load at reasonable air pressures that can deliver the performance required without compromising soil compaction. In the below example we demonstrate the load capacity of a standard 380/90R46 versus a VF380/90R46:

- Standard 380/90R46 AGRIXTRA N rated at 159A8/B can carry @25/30 mph with a maximum load of 9645 Lbs. at 58 PSI.
- VF380/90R46 AGRIXTRA N rated at 173D can carry @40 mph with a maximum load of 14330 Lbs. at 64 PSI.
- Therefore, at almost the same air pressure the VF tire carries +4600 Lbs. 10 mph faster than the standard tire.
- For a standard tire to carry the 14,000 lbs. you would need to increase the air pressure and slow down the equipment below 30 mph to meet the load.
- In a towed application any Sprayer tire must be inflated to the required axle load or tire load as speed is less of an issue.
- The better the air pressure management, the better the tire performance thus limiting compaction impact to the soil.

MAXAM radial agricultural tractor and sprayer tires have been developed to deliver performance in any working condition worldwide. Our objective is to bring to market radial products in the right sizes, with the right load capabilities, that when operated at the right air pressure will deliver the value and performance our customers expect from MAXAM. Backed by a world-class warranty program, our radial tires are manufactured to maximize performance, reduce compaction, improve traction with superior stability resulting in increased productivity! Try the MAXAM advantage in your operations today!

