

VIP

VARIABLE INFLATION PRESSURE

Trelleborg VIP. Ready for



Precision Farming represents a tremendous opportunity for Agriculture to use the world's available resources more efficiently and effectively, in order to meet future challenges such as the increasing global population and the creation of sustainable alternatives to fossil fuels.

Leading agricultural machine producers are developing a wide range of integrated Precision Farming solutions, which are GPS enabled, drone assisted, cloud connected and App interfaced. Independent tractors, driverless machines and robots are becoming a reality in modern agriculture. The Internet of Things (IoT) along with the Big Data environment will make tools, farmers and machines fully connected. This will ensure the best farming procedures,

using the right resources, at the right time and in the right place. This is the essence of Precision Farming. A “puzzle” of advanced technologies to make farmers produce more, with less.

Latest research suggests that Precision Farming technologies are, today, adopted over some 5% of cultivated land* and is projected to approach 20% within the next decade.

At Trelleborg, we believe there is a piece of this



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*Europe and North America

sion ring

“puzzle” that is yet to be discovered. A piece capable of boosting the potential of these great technologies. But, what is the role of the agricultural tire in the Precision Farming environment?

The Trelleborg VIP™ system comes with the ambition to answer this question. A smart, intelligent, self-adjustable variable inflation pressure system capable of adopting the right pressure in any situation.

All of that, without the intervention of the operator while allowing full connectivity with the farm network, mainframe, tools and machine fleet.

**Choose Trelleborg VIP for your machine and move Precision Farming forward.
Trelleborg. Innovation for sustainable farming.**

**BLUE TIRE
TECHNOLOGY**

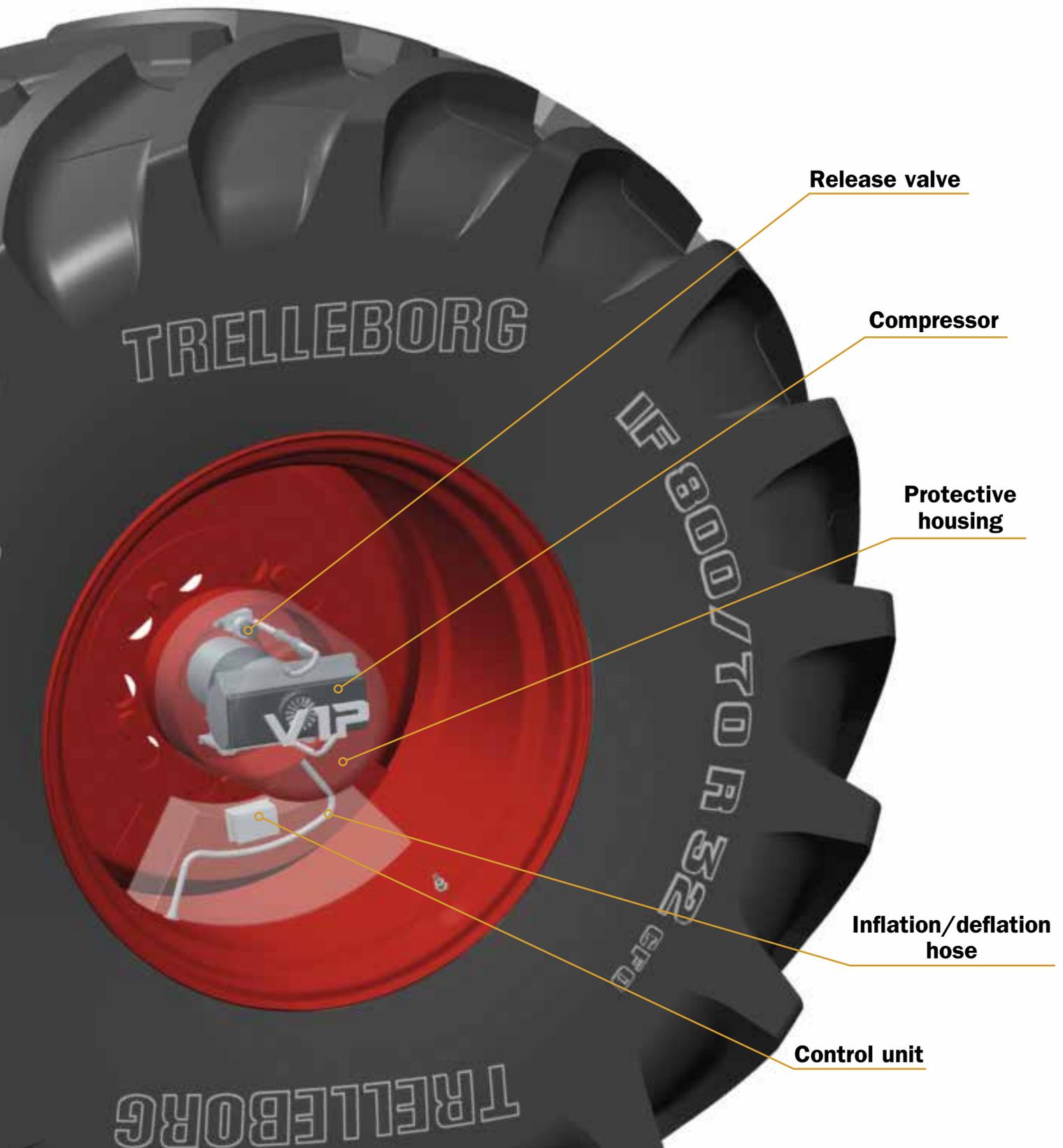
Watch the video on TrelleborgAgri to discover more about the VIP™.
[Youtube.com/TrelleborgAgri](https://www.youtube.com/TrelleborgAgri)



VIP Key Components

The VIP™ system consists of a set of sensors measuring several parameters including load, pressure and temperature along with an electronic central processor controlling a compressor and a valve to adjust the pressure. The VIP™ system is directly integrated on the tire rim.

The VIP™ system provides you with a wide range of significant benefits, such as a constant footprint and low soil compaction. In few words, VIP™ stands for better efficiency and productivity without the need for any manual intervention.



Constant Footprint

With a standard wheel the pressure within the tire is constant therefore the footprint varies according to the load, limiting the exploitation of the potential of the tire. Through Trelleborg VIP™ the pressure changes depending on the load

and consequently, the footprint remains constant always at its maximum dimension, throughout the machine's operation. This results in better flotation, up to -10.5% lower soil compaction and up to +5% higher crops yield.

FOOTPRINT AREA

VIP

Variable Pressure
1.2 bar



STANDARD

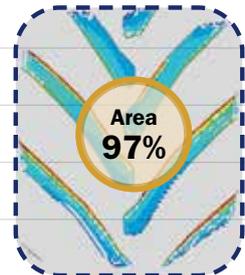
Constant Pressure
2.2 bar



Variable Pressure
2.2 bar



Constant Pressure
2.2 bar

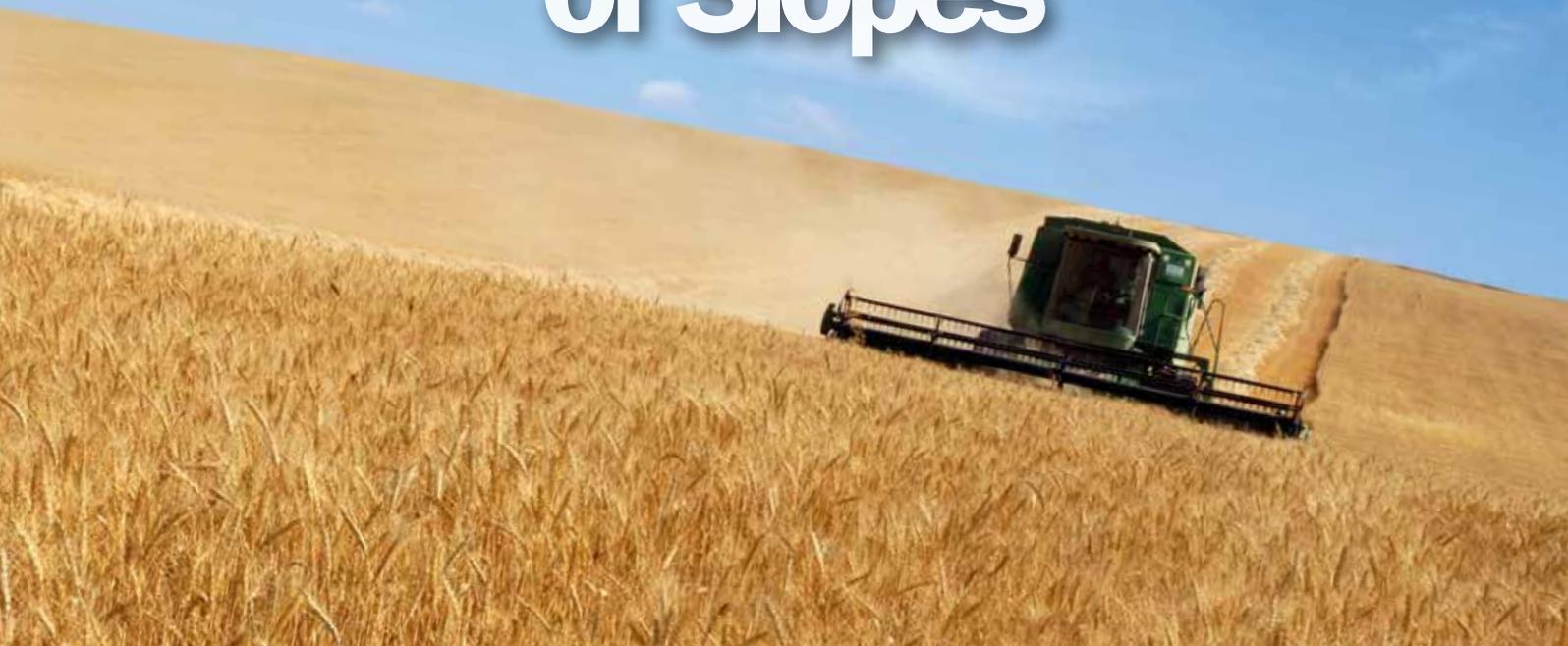


Test conditions:
Model of harvester: Fendt 9490X
Empty tank: 22 Tons
Full tank: 31 Tons
Tire size: IF 800/70R32 CFO TM3000

-10.5% soil compaction

Up to +5% crops yield

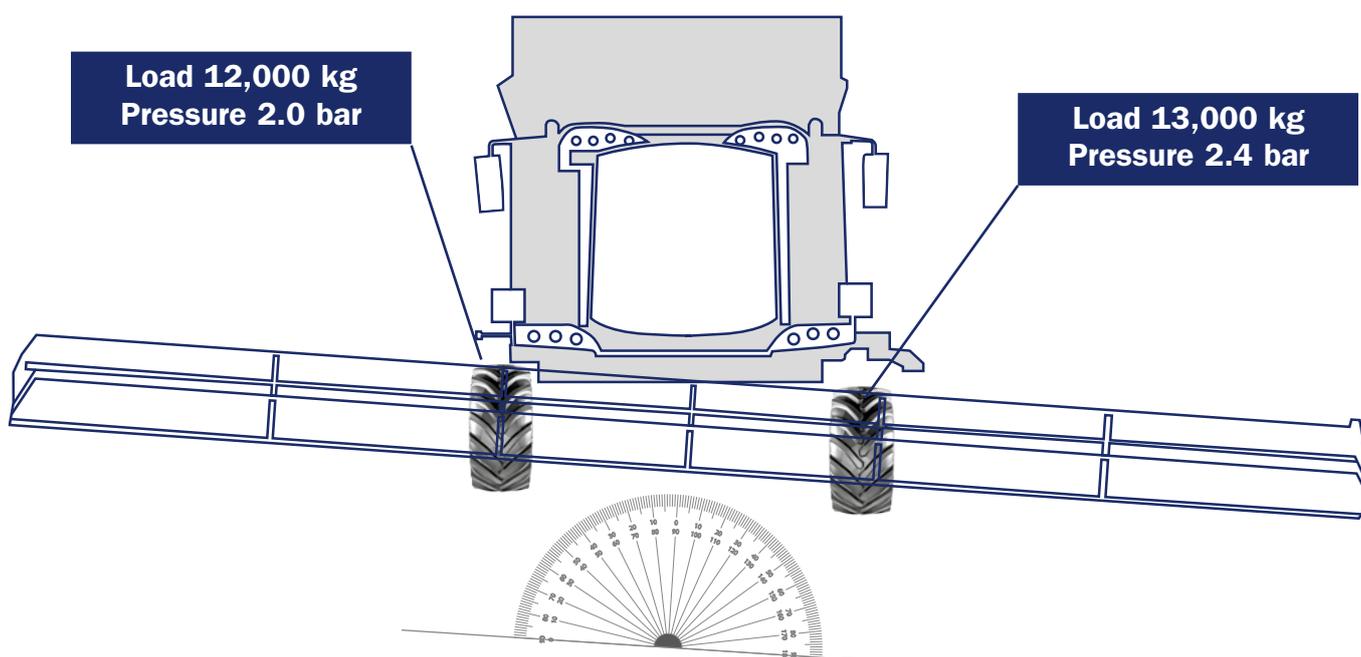
Independent of Slopes



The VIP™ system is capable to detect when the load on the right tire is different from the load on the left tire, on the same axle. This generates a huge advantage on slopes,

where the VIP™ system sets two different pressures according to the measured data generating maximum safety, high flotation, excellent handling and low soil compaction.

Watch the video on TrelleborgAgri YouTube channel to discover what our heroes say about VIP. youtube.com/TrelleborgAgri

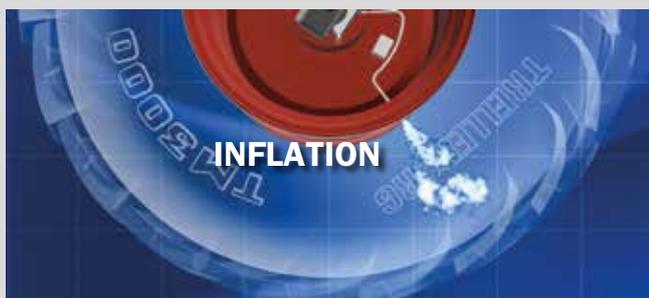


Smart and Self Adjustable

The VIP™ system doesn't require any effort or action from the operator. Being an intelligent system, it is capable of determining and adopting the right pressure at the right time, in the right place. Just as the philosophy

of Precision Farming suggests. In addition, the VIP™ system automatically understands whether the machine is in the field or on the road and modifies the pressure accordingly, inflating on the road or deflating in the field.

Harvester Loading (or road usage) - Pressure Up



Harvester Unloading (or field usage) - Pressure Down



The system is ready for digital interface devices and a specific App is under development. The VIP™ App will allow the operator to have total control of the machine set up, the

footprint area, the tire pressure and the total machine efficiency gained through the VIP™ system.



VIP system Trelleborg Innovation Awards

With the new VIP™ system, Trelleborg has been awarded a gold medal at the 2017 SIMA Innovation Awards.



This prestigious award, within the agricultural industry, recognises Trelleborg's long-standing commitment to developing innovative solutions, boosting productivity and efficiency enhancing agronomic results while reducing operating cost and overall environmental footprint.

The VIP™ system highlights Trelleborg's long-term commitment to the reduction of farming's environmental footprint. The VIP™ reduces fuel consumption and emissions not only during harvesting operations but also in ploughing operations which take place after the harvest.

This because a low compacted soil allows the plough to advance more easily reducing operating cost and working time. Trelleborg VIP™ system: efficiency and productivity under control.



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