

Data Sheet

Profi-Fit is the perfect solution for low pressure agricultural tyre applications.

Designed by a global team of moveero engineers, the wheel combines durability with reduced weight and easier tyre fitting, bringing benefits for both original equipment manufacturers and end users.

Low pressure tyres are extensively used in agricultural applications in order to minimise the risk of soil compaction. However, these tyres typically have stiffer walls, making them more difficult to fit.

moveero developed Profi-Fit specifically to address this problem. Detailed research has been undertaken using Finite Element Analysis and acquisition of stress data by use of strain gauged wheels. This has enabled moveero to develop a more structurally efficient rim profile with a 10% weight saving, whilst still achieving a 40% stress reduction in critical areas.

The Profi-Fit Wheel has a rolled over flange which improves rim strength and minimises the risk of tyre damage during fitting. It also has a specially angled section, more than double the TRA/ETRTO minimum of 15°. This greatly improves ease of tyre bead seating during inflation and allows tyres to be fitted at pressures below 2 bar.

Highlights

- Innovative design solution
- Enhanced durability
- Reduced weight
- Easier tyre fitting
- Easier inflation of low pressure tyres
- Sustainable wheel design
- Patent protected
- Greater support for the tyre

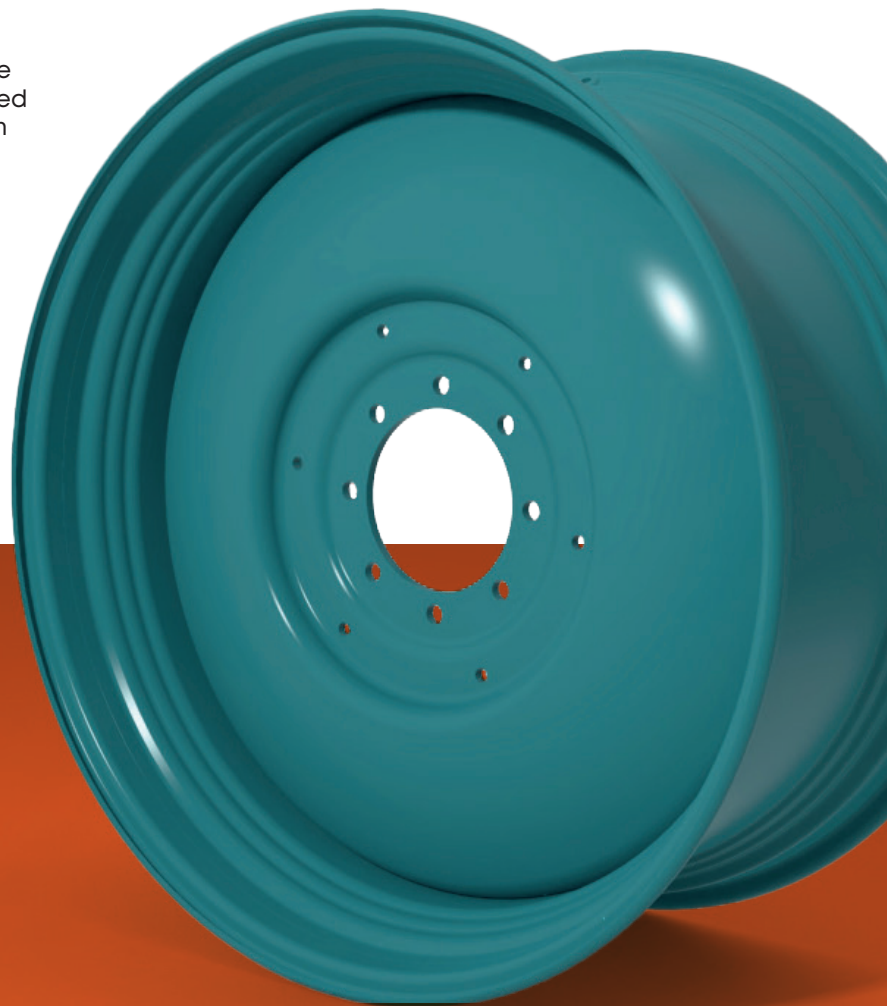
Profi-Fit

moveero

Designed with a unique 'double bump' radius at a critical point where traditional rims are susceptible to ultimate fatigue failure reduces stress, whilst maintaining strength and performance.

The lower weight reduces vehicle group pressure and contributes to savings in fuel consumption and carbon emissions.

The typical application for a Profi-Fit rim includes combines, self-propelled forage harvesters and tractors. It is produced in the UK, Denmark and the USA.

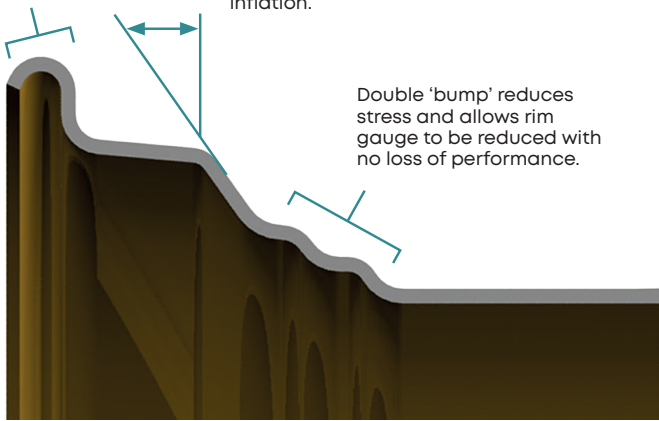


New Profile – 4.7mm thick

Rolled over flange improves rim strength and initial fitting of tire. Improves performance with low pressure tires.

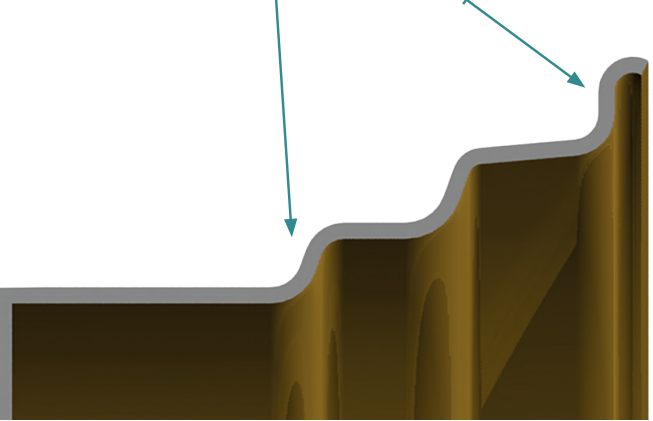
Angle more than double the TRA/ ETRTO minimum of 15°. This greatly improves ease of tire bead seating during inflation.

Double 'bump' reduces stress and allows rim gauge to be reduced with no loss of performance.



Standard DW – 5.2mm thick

Ultimate fatigue failure normally occurs in these radii. This determines minimum rim thickness. The changes to the rim profile reduce the stresses here.



		DIAMETER (")									
		24	26	28	30	32	34	38	42	46	50
RIM WIDTHS (")	TW14L	•		•	•						
	TW15L				•		•	•			
	TW16L	•		•	•		•	•	•	•	•
	TW18L	•	•	•	•		•	•	•	•	
	TW20B			•	•	•	•	•	•	•	
	TW21B					•					
	TW23B				•		•	•	•		
	TW25B						•	•	•		
	TW27B					•		•	•		
	TW30B							•	•	•	



For more information or to discuss your own specific requirements, contact us on sales@moveero.com

Further information about Profi-Fit and our other products can be found at www.moveero.com