TM1000 High Power. Enrich your farming.
With the world population expected to grow by 27 percent to 8.9 billion people by 2050, demand for agricultural products will certainly rise. With a limited amount of arable land available on the planet, farming needs to become more productive and efficient. New technology will certainly drive the industry, while choosing the right tire solution will become crucial to maximize the performance of tractors. Trelleborg’s strategic goal is to develop innovation to meet modern needs of an ever-growing market while respecting the environment.

```
“Produce more, with less.”
```

1969, the man lands on the moon.
2007, the Rover Spirit explores the red planet.
2030 is when experts foresee the first human journey to Mars (www.marssociety.org).
The human colonization of other planets will start together with the adoption of future farming techniques to feed the first humans on these planets.
At Trelleborg we know today the requirements that future farming will have. It’s what modern agriculture increasingly demands: innovation and technology to produce more in a sustainable way. We want to bring the technology of the future that is available now, to increase farming cost efficiency and crop productivity. To do this while respecting planet Earth, through the reduction of our company’s environmental footprint along with the promotion of sustainable farming.
The BlueTire™ technology allows up to a 6% reduction in CO₂ emissions (compared to standard tires). 1 year of BlueTire™ production led to an emission reduction of 13,700 tons of CO₂, the equivalent to about 2,884 personal vehicles in the course of a year.

On the sidewall of the tire, the logo represents the improvements, patents and production procedures that the TM1000 High Power manufacturing process has been through in order to help farming professional to produce more with less.

The new range has been eco-designed* according to the which includes:
- new eco-friendly materials
- advanced tread and bead concepts
- new sidewall designs
- eco-friendly manufacturing procedures

13,700 CO₂ tons emissions = 2,884

* Eco-design methodology:
LCA (life Cycle Assessment) certified by THINKSTEP
Learn more on thinkstep.com
According to recent research into the food industry’s environmental footprint, farming cultivation is responsible for a significant portion of CO₂ emissions from the production of food. As a consequence, in the coming years it is essential that the agricultural industry boosts performance through the reduction of its environmental footprint.

**Example of Cereals based food production**

<table>
<thead>
<tr>
<th>Process</th>
<th>Carbon Footprint GWP*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw materials cultivation</td>
<td>53%</td>
</tr>
<tr>
<td>Milling</td>
<td>7%</td>
</tr>
<tr>
<td>Packaging</td>
<td>8%</td>
</tr>
<tr>
<td>Pasta production</td>
<td>20%</td>
</tr>
<tr>
<td>Distribution</td>
<td>12%</td>
</tr>
</tbody>
</table>

*GWP = Global Warming Potential: It represents emissions’ contribution to the global warming and climate change of earth.*
The new BlueTire™ technology, recently launched by Trelleborg, guarantees the lightest touch on the earth.

As illustrated in the chart below, the BlueTire™ technology represents a 6% reduction in carbon footprint over the working life of a Trelleborg tire.

Trelleborg tires reduce your tractor’s CO₂ emissions by 6%

The chart shows the % of CO₂ emission for a standard tire during its working life. Lower is better. Trelleborg tires reduce CO₂ emissions by 6% compared to a standard tire.

*GWP = Global Warming Potential
LCA (Life Cycle Assessment) certified by PE INTERNATIONAL
Unbeatable traction performance

The new TM1000 High Power line has been co-designed together with leading tractor manufacturers to equip the latest generation of high powered tractors. The new Trelleborg range is able to transfer to the ground the entire engine power, along with the torque driven by the latest breed of transmissions. TM1000 High Power. Boost the traction capability of your tractor.

The “wing effect” enlarges the tread width of the tire, ensuring an extra wide footprint on the ground.

Test Conditions:
Front tractor: 360 hp
Brake tractor: 350 hp
Speed: 7.8 Km/h
Soil characteristics:
texture = loamy sand - moisture = 18%
Sizes: IF 710/70R42 – IF 600/70R30
p = 1.0 bar

TRACTION Index

Up to +28%

Higher is better
During ploughing operation, the new TM1000 High Power line performs better than premium brand competitors and significantly better than the average of the market. The reduced working time per hectare results in lower emissions and higher cost efficiency.

### PLOUGHING
Time to plough (min./Ha)

<table>
<thead>
<tr>
<th></th>
<th>Best</th>
<th>Avg. of the market</th>
<th>Worst</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM1000 High Power</td>
<td>37.0 min./Ha</td>
<td>43.0 min./Ha</td>
<td>38.0 min./Ha</td>
</tr>
<tr>
<td>Premium Competitor</td>
<td>38.0 min./Ha</td>
<td></td>
<td>39.5 min./Ha</td>
</tr>
<tr>
<td>Avg. of the market</td>
<td>39.5 min./Ha</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Budget Competitor</td>
<td>43.0 min./Ha</td>
<td>(Slippage: 11.3%)</td>
<td>(Slippage: 13.3%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Slippage: 14.5%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Slippage: 15.5%)</td>
</tr>
</tbody>
</table>

Test Conditions and Calculations
- 75% field, 25% road
- Tractor: 360 hp
- Speed: Avg. 8 km/h
- Soil characteristics: texture = loamy sand - moisture = 18%
- Working conditions: ploughing out of furrow
- working depth = 40 cm - working width = 220 cm
- Rear axle: Single fitment (2 tires)
- Sizes: IF 710/70R42 – IF 600/70R30
- p = 1.0 bar

The economic benefits driven by the reduction of operating time result in significant overall savings, including costs such as fuel, maintenance and manpower.

**TIME TO PLOUGH 500 Ha**
(vs. average of the market)

- Average working costs per hour = 75 €
- Including cost evaluation related to the tire wear performance

up to **21 hours saved** = **1,620 € saved**
TM1000 High Power provides extra wide footprint, giving premium flotation and low soil compaction.

The soil returns to its original state as an organic reactor, capable of absorbing air-bound nutrients, recycling crop residues and retaining water.
The extra wide footprint of Trelleborg TM1000 High Power minimises the crop loss through your farming operations. As a result, your productivity per hectare grows significantly. Recent tests performed jointly with Dresden University prove that a 12% wider footprint drives up to 2% higher crop yield.
Select the right tire
"Wider is better"

The FEM Analysis (Finite Element Analysis) shows the degree of compaction gets rapidly worse and much deeper with a narrow tire. Recent research proves that at a 10 cm depth the soil compaction is double with the narrow solution and becomes triple at 30 cm depth. The wide TM1000 High Power tire provides very low soil compaction, boosting the yield from the crops.

SOIL COMPACTION PERFORMANCE. NARROW vs. WIDE

Test Conditions
Soil characteristics:
texture = sand 18% - silt = 47% - clay = 35%
pH: 7.3 - O.M.: 2.0%
Soil moisture: 18% - 20%
The shape, width and length, as well as the materials of the lugs of TM1000 High Power have been studied to increase wear performance while reducing consumption and emission.

The wide lug head shape maximizes wear resistance for long mileage of your tire.
On the road, the advanced design along with new carcass and tread materials, ensure to your TM1000 High Power the longest life in the market. In addition, the reduced rolling resistance results in low fuel consumption and emissions.

ON THE ROAD
Fuel consumption and Life time

Test Conditions and Calculations
50% road, 50% field
Tractor: 360 hp
Fuel cost: 0.65 €/lt
Rear axle: Single fitment (2 tires)
Sizes: IF 710/70R42 - IF 600/70R30

Fuel consumption: **-13%**

Your TM1000 High Power uses 13% less fuel and lasts 860 hours more than the market average.

On the road, save up to 1,760 € after 1,000 hours vs. the average of the market.

Life time: **+860** hours
Superior comfort for demanding farming

Compared to the market average, the TM1000 High Power provides you with better handling and safety performances.

The BlueTire technology avoids vibration to provide premium comfort, essential for your long and demanding farming operations.

**DRIVER COMFORT**
(Score from 1 to 10)

<table>
<thead>
<tr>
<th>Score</th>
<th>TM1000 High Power</th>
<th>Premium Competitor</th>
<th>Average of the market</th>
<th>Budget Competitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Test Conditions:
- Vehicle front ballasted
- Inflation pressure: 1.2 bar
- Speed: 40 Km/h
Get the most out of your TM1000 High Power.
Make your own calculation.

Download the Trelleborg Load Calculator and Tire Efficiency from App Store or Google Play.

Download for free on:

www.trelleborg.com/wheels/agri/apps

<table>
<thead>
<tr>
<th>SIZE</th>
<th>Tread Pattern</th>
<th>SW mm</th>
<th>OD mm</th>
<th>SLR mm</th>
<th>RC mm</th>
<th>SRI</th>
<th>Rim</th>
<th>Permitted Rims</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>IF 600/70R30 190D</td>
<td>TM1000 High Power</td>
<td>605</td>
<td>1610</td>
<td>695</td>
<td>4750</td>
<td>750</td>
<td>DW21B</td>
<td>DW20B</td>
<td>TUBELESS</td>
</tr>
<tr>
<td>IF 650/60R34 190D</td>
<td>TM1000 High Power</td>
<td>645</td>
<td>1660</td>
<td>725</td>
<td>4955</td>
<td>775</td>
<td>DW23B</td>
<td>TUBELESS</td>
<td></td>
</tr>
<tr>
<td>IF 650/60R34 1610</td>
<td>TM1000 High Power</td>
<td>650</td>
<td>1720</td>
<td>750</td>
<td>5105</td>
<td>825</td>
<td>DW23B</td>
<td>TUBELESS</td>
<td></td>
</tr>
<tr>
<td>IF 710/60R34 1640</td>
<td>TM1000 High Power</td>
<td>710</td>
<td>1715</td>
<td>740</td>
<td>5105</td>
<td>825</td>
<td>DW25B</td>
<td>TUBELESS</td>
<td></td>
</tr>
<tr>
<td>IF 650/65R38 1690</td>
<td>TM1000 High Power</td>
<td>660</td>
<td>1840</td>
<td>830</td>
<td>5510</td>
<td>875</td>
<td>DW23B</td>
<td>TUBELESS</td>
<td></td>
</tr>
<tr>
<td>IF 710/60R38 1720</td>
<td>TM1000 High Power</td>
<td>720</td>
<td>1840</td>
<td>825</td>
<td>5515</td>
<td>875</td>
<td>DW25B</td>
<td>TUBELESS</td>
<td></td>
</tr>
<tr>
<td>IF 710/70R42 1790</td>
<td>TM1000 High Power</td>
<td>735</td>
<td>2060</td>
<td>920</td>
<td>6190</td>
<td>975</td>
<td>DW25B</td>
<td>TUBELESS</td>
<td></td>
</tr>
<tr>
<td>IF 710/75R42 1780</td>
<td>TM1000 High Power</td>
<td>730</td>
<td>2160</td>
<td>940</td>
<td>6410</td>
<td>1025</td>
<td>DW25B</td>
<td>DW23B</td>
<td>TUBELESS</td>
</tr>
<tr>
<td>IF 900/60R42 1860</td>
<td>TM1000 High Power</td>
<td>880</td>
<td>2155</td>
<td>945</td>
<td>6425</td>
<td>1025</td>
<td>DW30B</td>
<td>DW23B*</td>
<td>TUBELESS</td>
</tr>
<tr>
<td>IF 710/65R46 1830</td>
<td>TM1000 High Power</td>
<td>710</td>
<td>2090</td>
<td>947</td>
<td>6325</td>
<td>1025</td>
<td>DW25B</td>
<td>TUBELESS</td>
<td></td>
</tr>
<tr>
<td>IF 750/75R46 1860</td>
<td>TM1000 High Power</td>
<td>750</td>
<td>2305</td>
<td>1030</td>
<td>6915</td>
<td>1125</td>
<td>DW25B</td>
<td>TUBELESS</td>
<td></td>
</tr>
<tr>
<td>IF 900/65R46 1900</td>
<td>TM1000 High Power</td>
<td>890</td>
<td>2310</td>
<td>1030</td>
<td>6930</td>
<td>1125</td>
<td>DW30B</td>
<td>TUBELESS</td>
<td></td>
</tr>
</tbody>
</table>

* Narrow Rim Option (NRO)
Strong and light at the same time? That's why we've created the TM1000 High Power tire. It provides an extra-wide footprint, reducing ground pressure, protecting soil from compaction and ensuring high crop yields. Moreover, its reduced rolling resistance results in low fuel consumption and emissions, helping you to produce more in a sustainable way.

www.trelleborg.com/wheels
Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Our innovative engineered solutions accelerate performance for customers in a sustainable way. The Trelleborg Group has local presence in over 50 countries around the world.

WWW.TRELLEBORG.COM/WHEELS