



# Tire Rolling Resistance Test System



TMSI's Tire Rolling Resistance Test System provides the highest quality measurements in tire rolling resistance testing according to ISO 28580, ISO 18164, SAE J1269, SAE J2452, and any other standards predefined by the customer. All of the measurements are performed by either the "Force" method, the "Torque" method, the "Coast Down" method, or multiple methods at the same time. The system can perform testing for passenger car, light truck, and commercial truck tires, with a single station or a two station configuration. The system is guaranteed to exceed the repeatability requirements of a **reference system** as defined in ISO 28580.

## Technical Specification

	PCR & LTR	TBR
<b>Roadwheel Drum</b>		
<i>Diameter, mm</i>	1700 or 2000	
<i>Width, mm</i>	508 (standard), 600, or 650	
<i>Surface Coating (Optional)</i>	80-grit Safety Walk	
<i>Max. Rotating Speed, km/h</i>	250	
<b>Tire Sizes</b>		
<i>Max. O.D, mm</i>	930	1700
<i>Min. O.D, mm</i>	430	500
<i>Max. Tread Width, mm</i>	450	610
<i>Max. Tire Weight (with Wheel), kg</i>	150	250
<b>Load Cell Measurement</b>		
<i>Max. Radial Load Fz, N</i>	22,000	66,000
<i>Fz Instrument Accuracy, N</i>	±7.5	±10
<i>Max. Spindle Load Fx, N</i>	±6,000	±25,000
<i>Fx Instrument Accuracy, N</i>	±0.3	±0.6
<b>Tire Pressure</b>		
<i>Range, kPa</i>	689	1350
<i>Control Accuracy, kPa</i>	±1.4	±1.4
<i>Measurement Accuracy, kPa</i>	±0.7	±0.7

**Note:** Above specifications can be customized per customer request. Call our machine specialists for more information.

## High Quality Tire Measurements

-  Rolling Resistance
  - Force Method
  - Torque Method
  - Coast Down Method
-  RPK Testing
-  Loaded and Rolling Radius



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