



Braking Test Unit

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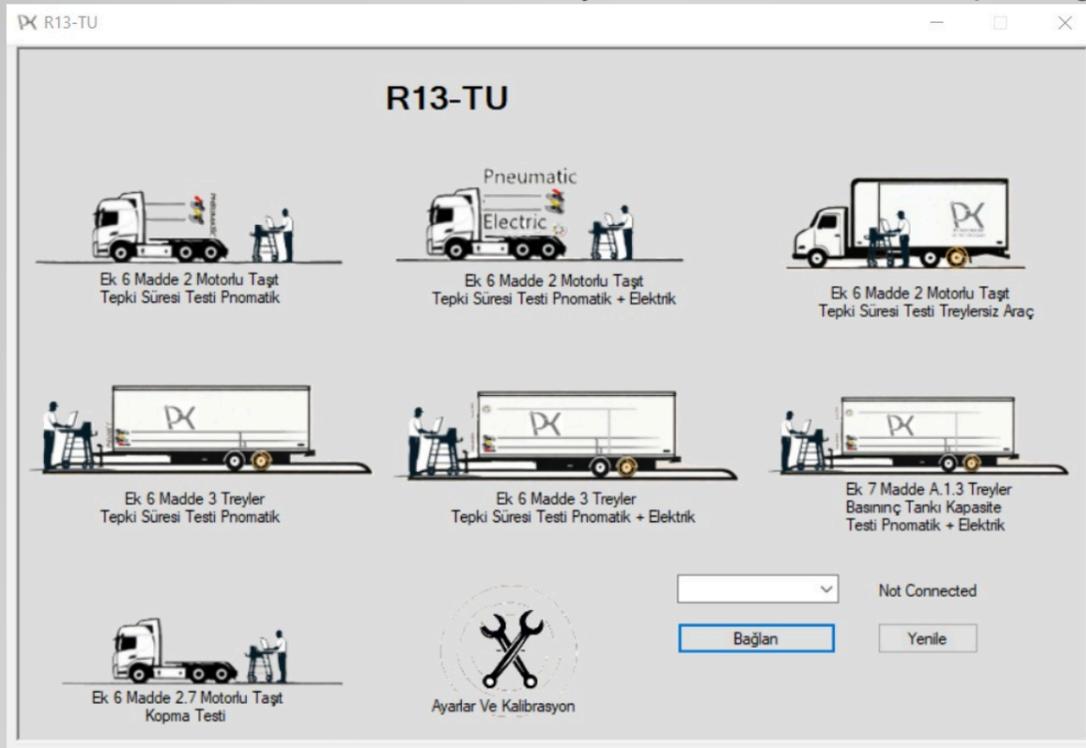
UNECE R13 and EU2015/68 Compliant Braking Test Unit



CAN-Bus Protocol :
Full compliance with ISO 11992 communication protocols

High Sampling Rate: High-speed Data Acquisition (DAQ) at 1 kHz and above for millisecond-accurate response time measurements.

User-Friendly Interface: PC-based test management featuring real-time graphical analysis and automated reporting.



Trailers

Annex 6: Response Time Testing The system simulates the towing vehicle by delivering instantaneous pneumatic pressure or digital signals (braking via CAN-Bus) to the control line. It captures and records data from trailer-mounted pressure sensors with millisecond precision.

Automatic Reservoir Capacity Validation (8-Stroke Test) according to ECE R13 Annex 7 This test verifies the capacity of the trailer's air reservoirs to ensure safe braking performance even after the energy source (towing vehicle) is disconnected.



M, N and T Category Vehicles (Motor Vehicles)

Annex 6 - Response Time

"Precision Timing via Dual-Switch Triggering"

The R13-TU features an advanced brake pedal trigger mechanism equipped with dual high-speed switches to eliminate operator-induced latency.

Initial Contact Switch (T0): Captures the exact millisecond the pedal begins its travel, fulfilling the ECE R13 requirement for starting the response time clock.

Full-Stroke Switch (Tmax): Identifies the moment of maximum displacement, allowing for a comprehensive analysis of the system's pressure build-up curve.

