RS-90K Towing Dynamometer
Taylor Dynamometer’s RS-90K towing dynamometer is designed for testing Class A trucks and is the most full-featured, reliable and accurate towing dynamometer in the industry. The RS-90K is built with a heavy-duty steel frame, heavy-duty industrial axles and rides on an air ride suspension. The RS-90K is designed to maintain 90,000 Newtons of constant drawbar pull and the ability to simulate an uphill slope of 25%. The towing dyno uses absorbers with special high temperature coils powered by an industrial generator so there are no lead-acid batteries to charge and testing is unlimited at low speeds.

DynCntrl-II Software
Taylor Dynamometer’s DynCntrl-II Instrumentation system includes a ruggedized, Wi-Fi, touchscreen tablet PC. The easy to use, intuitive DynCntrl-II software not only makes testing simple, but also fully controls the dyno wirelessly and displays multiple channels of real time data. Our hill simulation features exceed far beyond typical load testing by allowing the engineer to create and store automated hill simulations.

Hill Simulation Features
- Simulate slope
- Compensate for actual slope
- Simulate trailer weight and aero
- Compensate for vehicle weight
- Reference slope input
- Import/export Excel® file
- Save, name and file hill profile
- Auto record data
- Integrated heads up/drivers trace display
RSL-90K Specifications

- Ruggedized, WiFi, touch screen tablet PC controller with integrated heads-up display
- DynCntl-II software
- Wireless or CAT5 communication
- Heavy-duty steel frame construction
- Air ride suspension
- Heavy-duty, industrial diesel generator (with remote start)
- Storage cabinet
- NEMA enclosure for electronics
- Absorbers with high temperature coils
- Highly advanced 5th wheel drawbar assembly
- Max speed with transfer case in low gear: 55 kph (34 mph)
- Max speed with transfer case in high gear: 120 kph (75 mph)
- Tire size: 11R/24.5
- Max drawbar pull: 90,000 Newtons (20,232 lb)
- GVW: 25,000 kg (56,202 lb)
- Weight Dry: 12,500 kg (27,577 lb)
- Length: 1,262.3 cm (497 in.)
- Width: 259 cm (102 in.)
- Height: 317.5 cm (125 in.)

Options

- Instrumented fifth wheel/dolly
- LED amber warning beacon
- Water or concrete ballast system
- CE Certification

Notes:
Specifications are subject to change without notice to improve the product without sacrificing quality or performance.

Taylor’s RS and RSL series towing dynamometers are intended to be used on a test track. While Taylor stands behind the road worthiness of the trailers, the specialized control features and handling interactions between the towing dynamometer and test vehicle result in our recommendation to use them within controlled test facilities. Obtaining regulatory approvals for road licensing is the responsibility of the end user.
RS-90K Power Absorption
11.00 24.5 Tires and 5.13:1 Drive Ratio

RS-90K Drawbar Force
11.00 24.5 Tires and 5.13:1 Drive Ratio

Maximum Wheel Power @9181kg Axle Weight and Coef. of Friction = 0.75
RS-90K Power Absorption
11.00 24.5 Tires, and 11.44:1 Drive Ratio (Low Range)

RS-90K Drawbar Pull
11.00 24.5 Tires, and 11.44:1 Drive Ratio (Low Range)

Max. Wheel Power
@37,471 lb Axle weight
Coef. Friction 0.75

Max. Rated Force

Power (hp)
Speed (mph)

Force (Pounds)
Speed (mph)