



RS-10K / Towing Dynamometer



RS-10K Towing Dynamometer

Taylor Dynamometer's RS-10K Towing Dynamometer is designed for testing today's mid-sized cars and SUVs. The RS-10K is built with an all aluminum frame, an aerodynamic body and rides on an independent, air ride suspension and uses an eddy current absorber with special high temperature coils to absorb energy. The RS-8K is powered by an industrial generator, so unlike battery/alternator Towing Dynamometers, there are no lead-acid batteries to charge and testing time is unlimited at low speeds.

DynPro₂

Taylor Dynamometer's DynPro₂ state-of-the-art data acquisition and control system makes testing simple, but also fully controls the dyno wirelessly. The DynPro₂ system offers hill simulation that goes far beyond typical load testing by allowing the engineer to create and store automated hill simulations.



Includes a wireless, touchscreen tablet

Additional Features of DynPro₂:

- Graphical representation of an automated test cycle with driver identification (Driver's Trace)
- Real-time measurements including speed, acceleration, distance and direction
- Simulate real-life driving conditions from mapped or official data specifications using reference tables
- Calculate acceleration, accumulated count, towing load equation and track road load in real time using statistic channels
- Automatically run a program, open a document, set channel values or even start a test all upon startup

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

Everything you need to succeed

RS-10K Specifications

- Heavy-duty, eddy current absorbers with high temperature coils for maximum drawbar pulls
- Industrial generator for power (no batteries to charge)
- Stainless steel ballast box centered over the axle to maintain constant tongue weight
- Adjustable hitch height with 50 mm or 2 in. ball hitch available
- Ruggedized, WiFi, touch screen tablet PC controller with integrated heads-up display
- DynPro₂ software
- Wireless or CAT5 communication
- Independent air ride suspension with onboard air compressor and automatic leveling
- Largest drawbar shaft in its class
- Surge brake with large disc brakes
- All aluminum powder coated frame
- Parking brake and easy use jockey wheel (easy to move dyno by hand)
- Euro and U.S.A. approved lighting
- LED amber warning beacon
- Aerodynamic, fiberglass body
- Global standard tire size
- Max drawbar: 10,000 Newtons (2,248 lb)
- Weight: 1,400 kg (3,086 lb)
- Length: 400 cm (157.5 in.)
- Width: 200 cm (78.75 in.)
- Height: 100 cm (39 in.)

Options

- 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.

The data acquisition and control system offered here includes a software license that allows the system to operate and collect data. Please be aware that the license initially installed is a temporary license that is only active for 120 days from the date of shipment from Taylor Dynamometer. You must contact the Taylor Dynamometer Customer Support Team before the 120-day license expires to obtain the license key to update to your permanent (regular) license. The system will shut down and become non-operational should the system registration key (license) expire. The purchased equipment must be paid for in full prior to obtaining the valid and permanent license key.



- Independent air ride suspension with onboard air compressor and air tank
- Heavy-duty anti-sway bar



- Height adjustable hitch for maximum control
- Largest drawbar shaft in the industry



- Absorber has high temperature coils
- Absorber is temperature monitored



- Parking brake with break-away brake system
- Wheel brakes on all dyno models

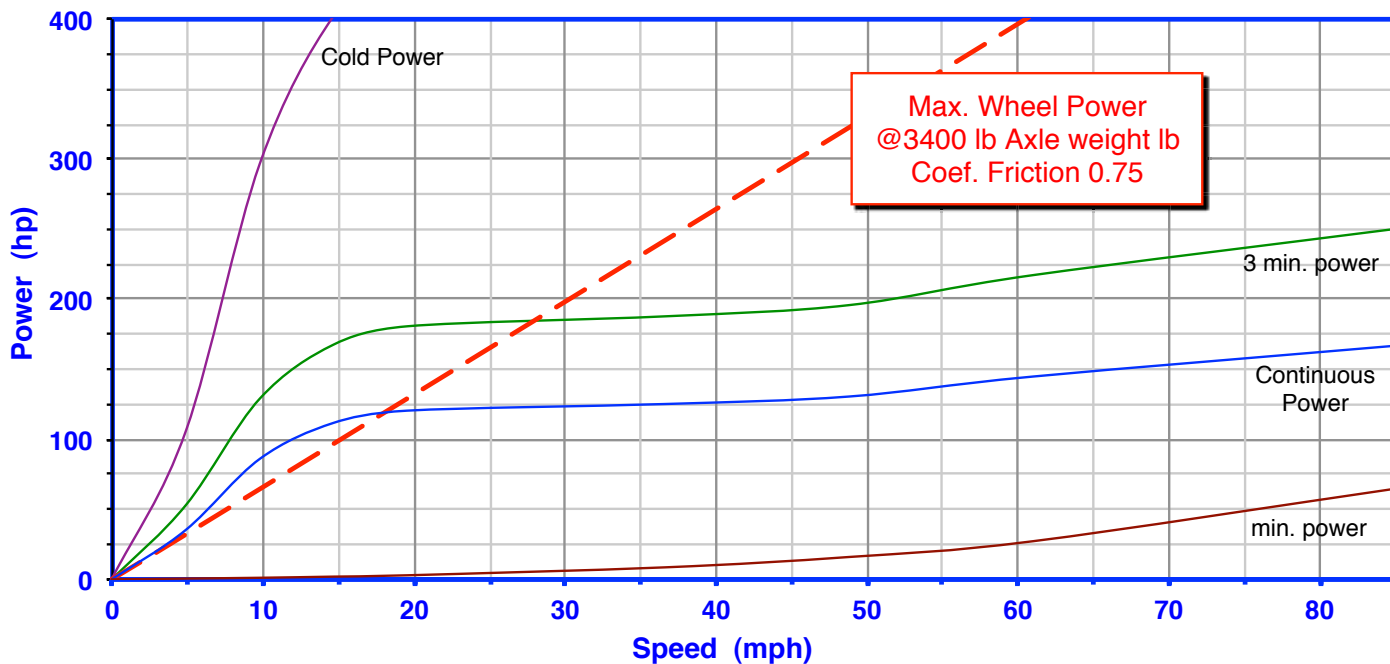


- Wireless and CAT5 connection is standard on every dynamometer

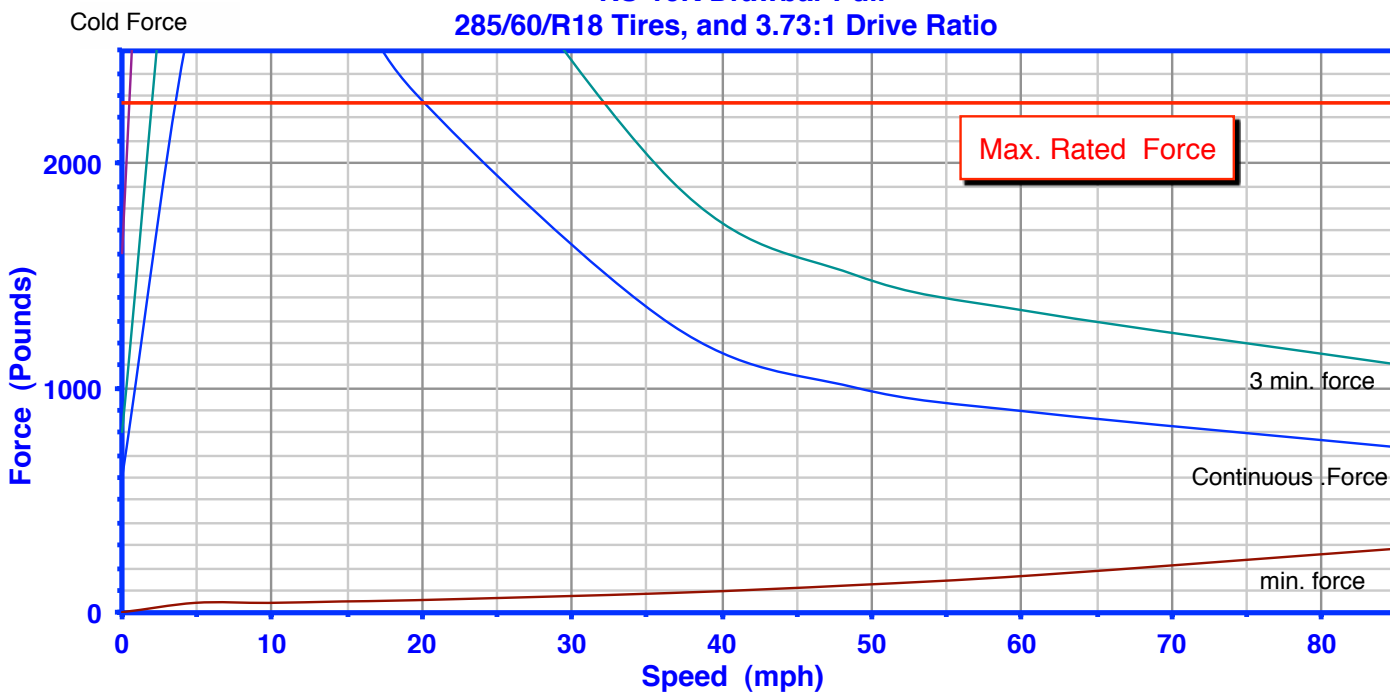


- Powered by a generator instead of batteries

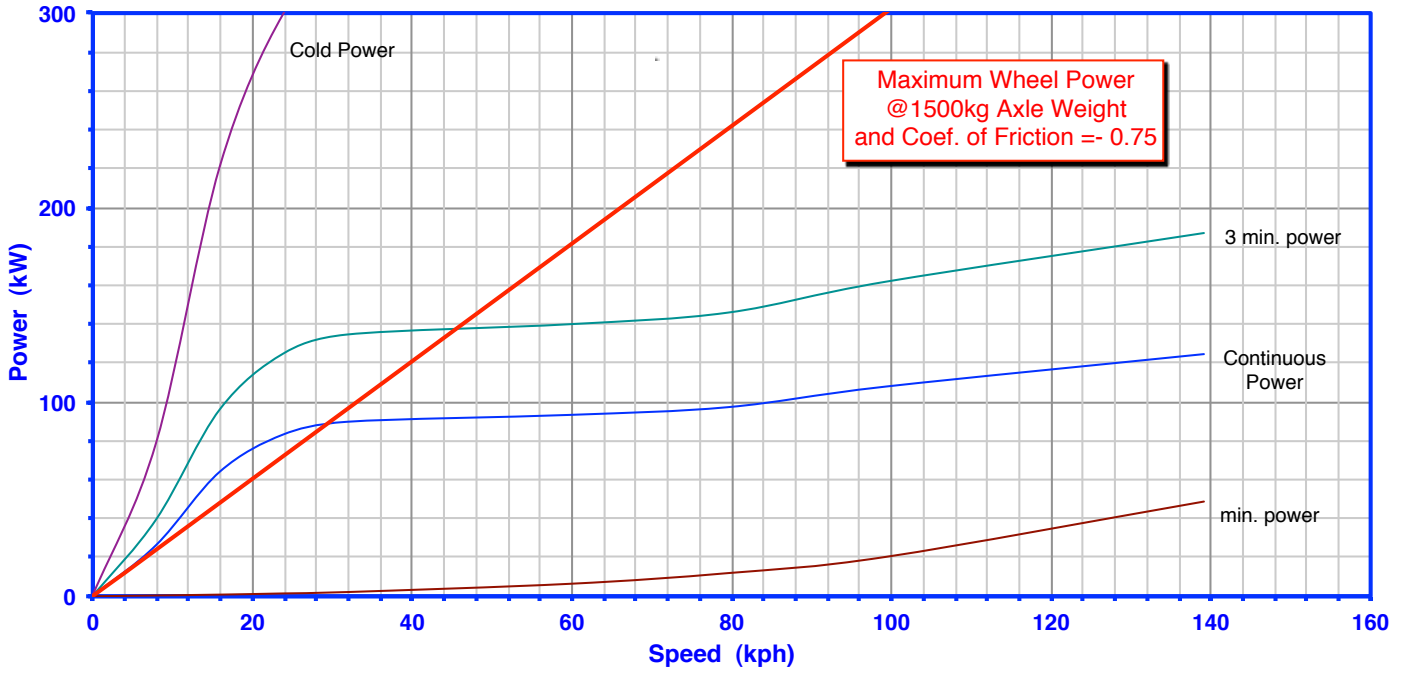
RS-10K Power Absorption
285/60/R18 Tires, and 3.73 :1 Drive Ratio



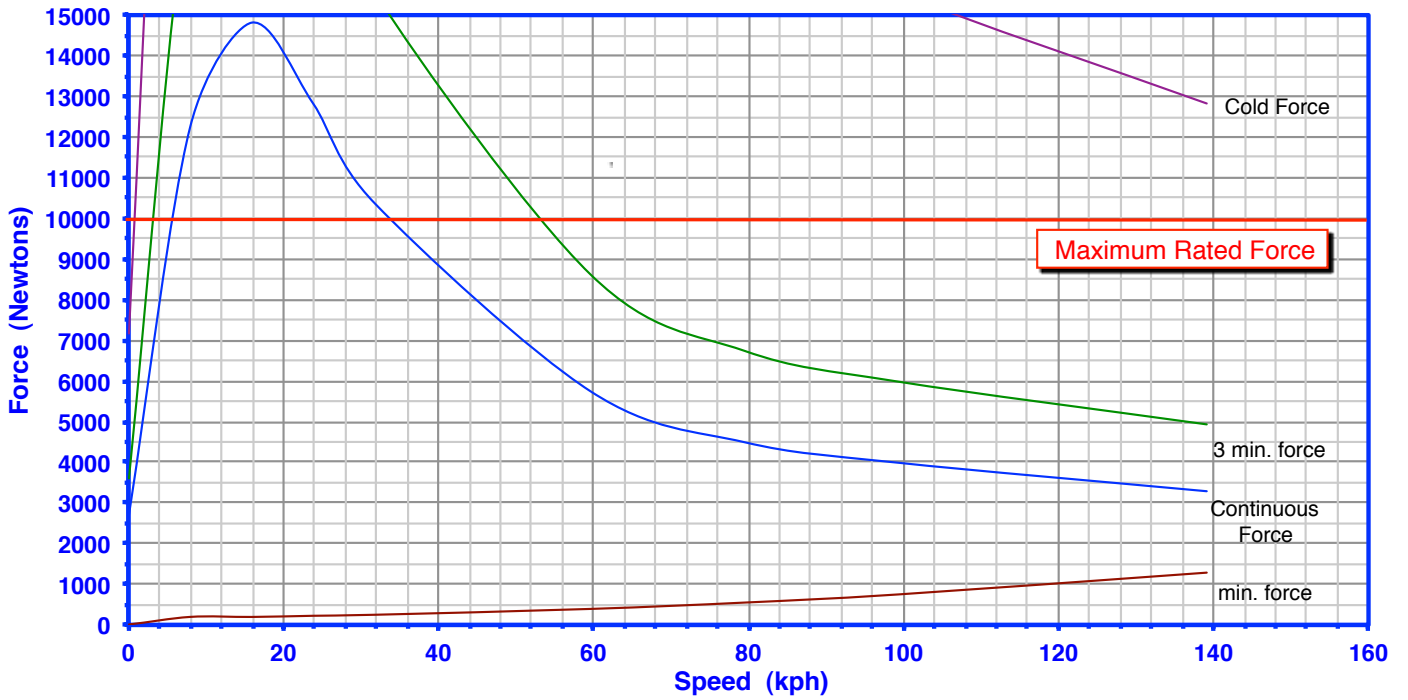
RS-10K Drawbar Pull
285/60/R18 Tires, and 3.73:1 Drive Ratio



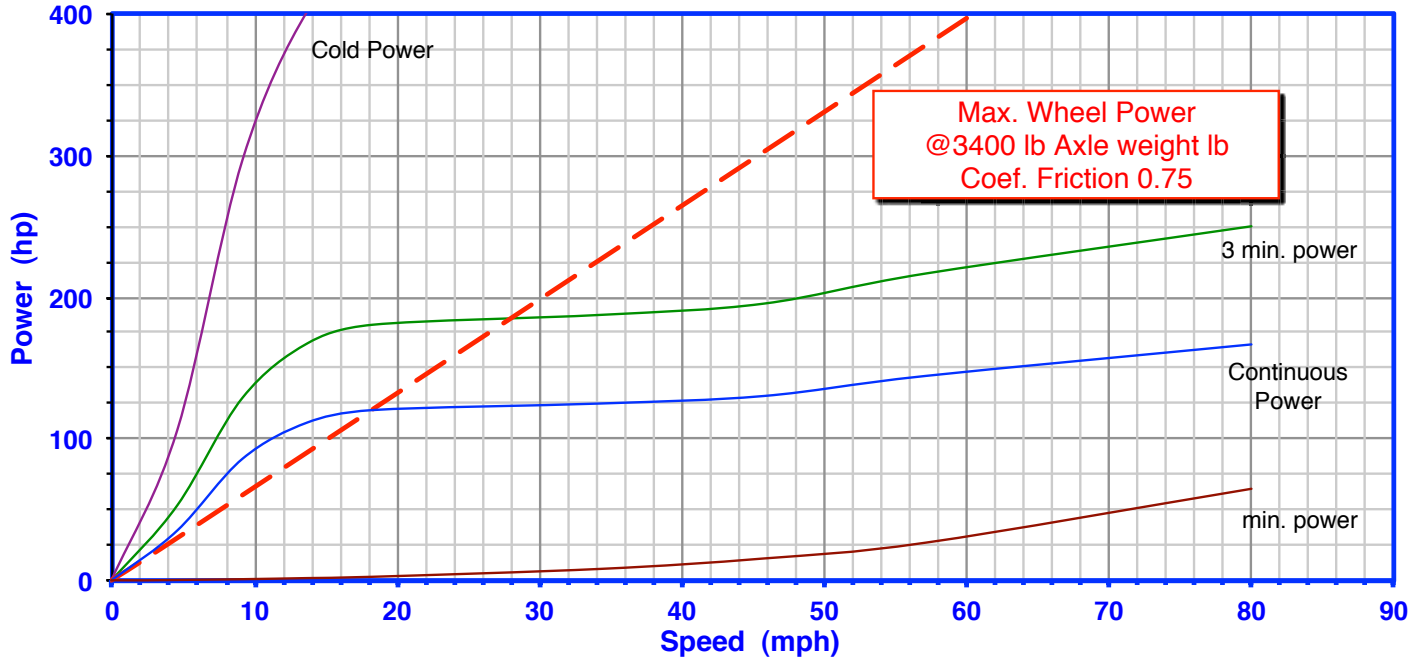
RS-10K Power Absorption
285/60/R18 Tires and 3.73:1 Drive Ratio



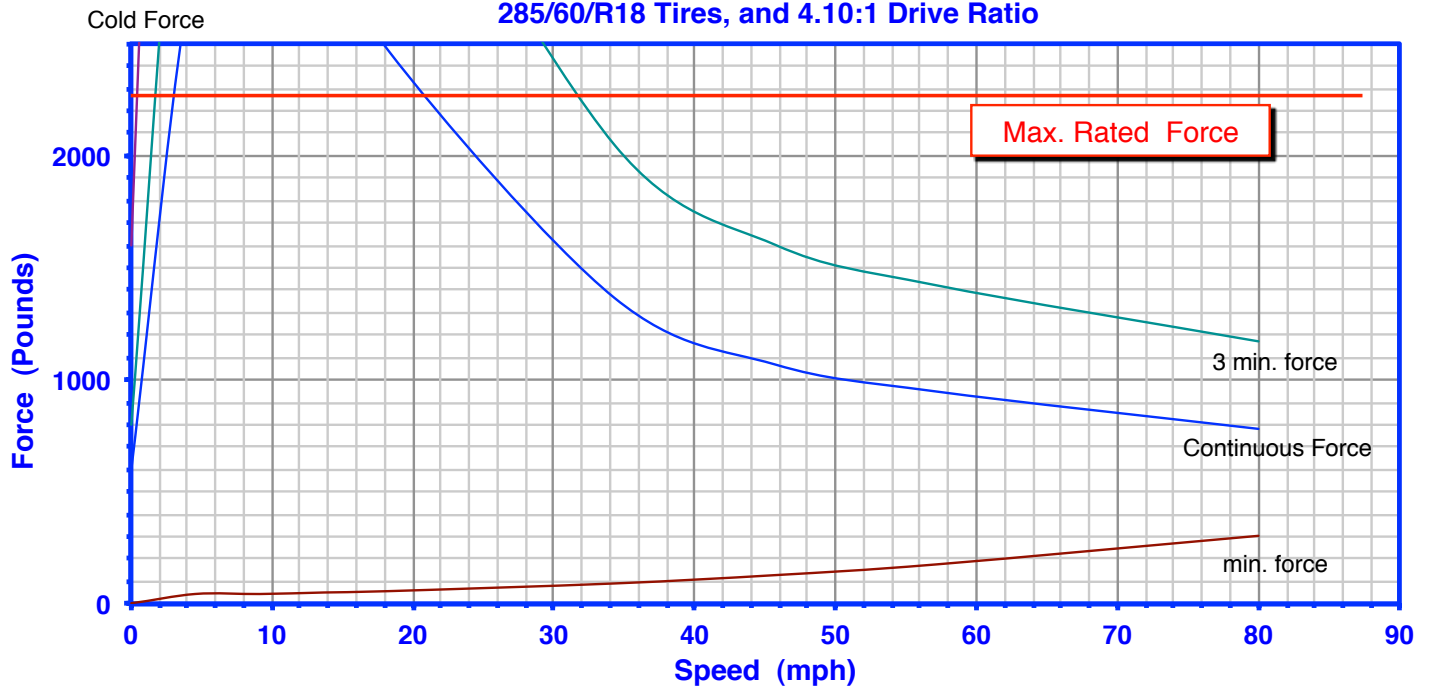
RS-10K Drawbar Force
285/60/R18 Tires and 3.73:1 Drive Ratio



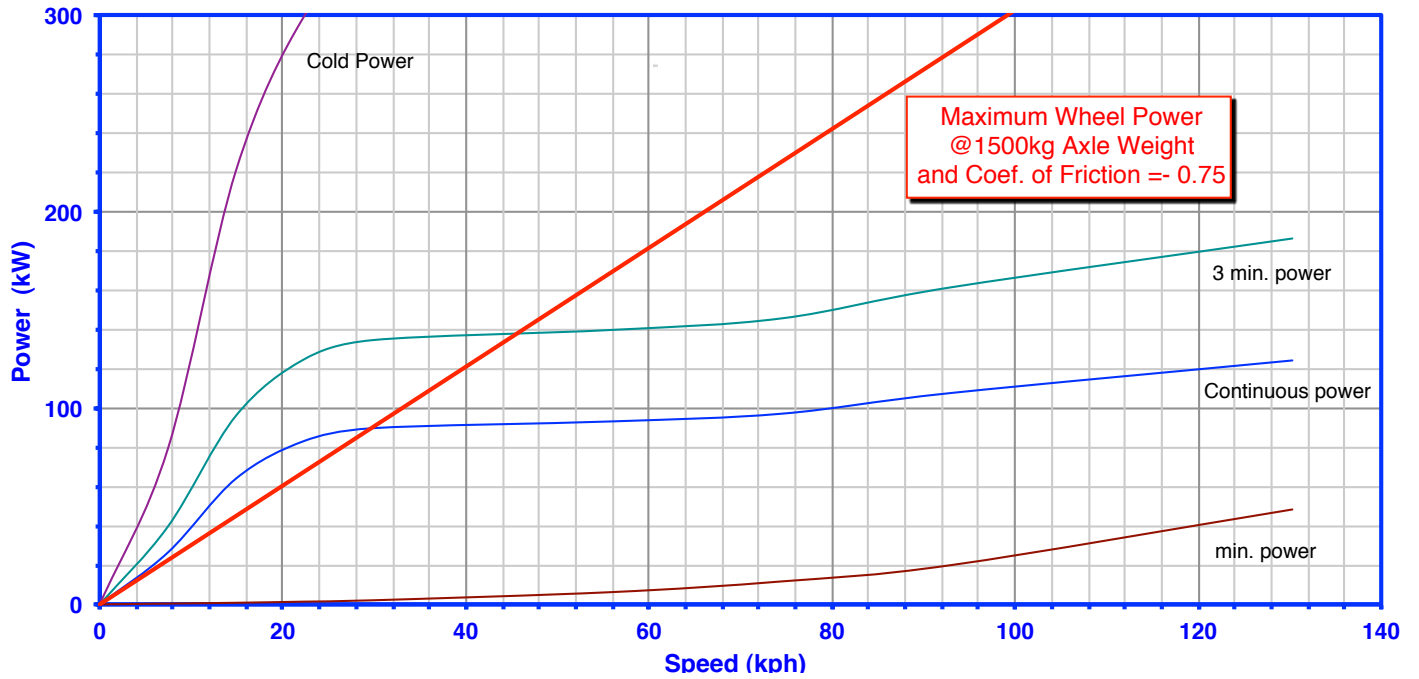
RS-10K Power Absorption
285/60/R18 Tires, and 4.10 :1 Drive Ratio



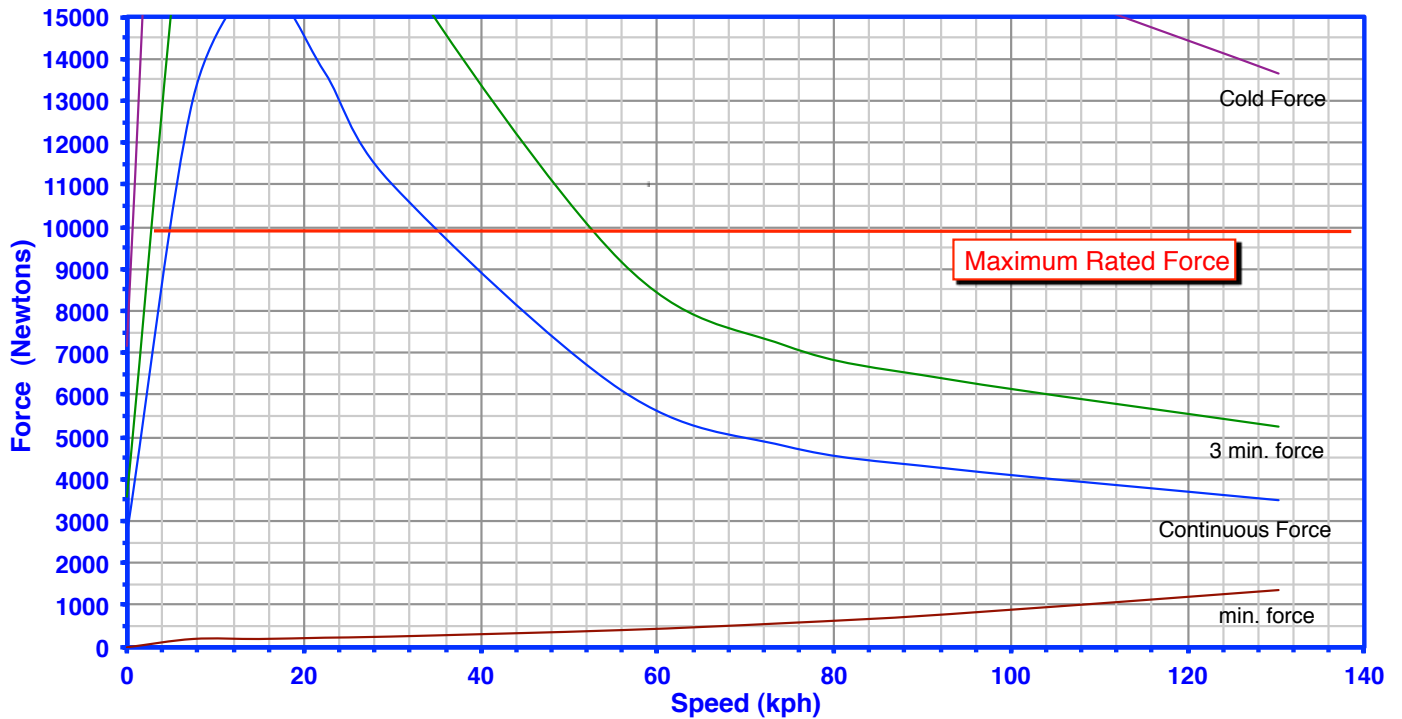
RS-10K Drawbar Pull
285/60/R18 Tires, and 4.10:1 Drive Ratio



RS-10K Power Absorption
285/60/R18 Tires and 4.10:1 Drive Ratio



RS-10K Drawbar Force
285/60/R18 Tires and 4.10:1 Drive Ratio



Everything you need to succeed

