



RS-25K / Towing Dynamometer



RS-25K Towing Dynamometer

Taylor Dynamometer's RS-25K Towing Dynamometer is designed for testing today's full-sized SUVs and light trucks. The RS-25K is built with a heavy-duty steel frame, an aerodynamic body and rides on an independent, air ride suspension using two eddy current absorbers with special high temperature coils to absorb energy. The RS-25K is powered by an industrial generator so 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

Total Test Success

RS-25K Specifications

- Heavy-duty, eddy current absorbers for maximum drawbar pulls (disengageable for transport)
- Industrial generator for power (no batteries to charge)
- Secure ballast tray
- Adjustable ball 2-5/16 in. and 2-1/2 in. Pintle Ring included
- 3.73:1 or 4.10:1 gear options available
- Hitch height adjustable from 17 cm to 49.5 cm
- Touch screen wireless controller with an integrated graphic heads up display
- DynPro₂ Software with Advanced Hill Simulation
- Wireless or CAT5 communication
- Independent air ride suspension with onboard air compressor and automatic ride height adjustment
- Largest drawbar shaft in its class
- Hydraulic actuated surge disc brakes
- Parking brake and break-away brake system
- Heavy-duty nose wheel
- Euro or U.S.A. approved lighting and LED beacon
- Steel body and fenders with internal spare tire storage
- For DOT Vehicle Class 3 and 4 vehicles (Heavy-Duty Pick Up / Box and Straight Frame Trucks, 10,001 lbs to 16,000 lbs GVWR)
- Maximum drawbar: 25,000 Newtons (5,620 lb)
- Weight: 3,250 kg (7,165 lb) empty
- Fully Ballasted: 3,645 kg (8,036 lb)
- Length: 510 cm (201 in.)
- Width: 200 cm (78.75 in.)
- Height: 128 cm (50.3 in.)
- EU (CE certified) or US models available

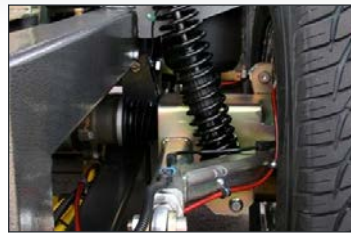
Notes:

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.

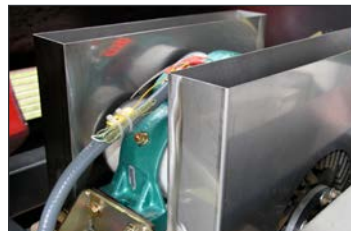
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- Independent air ride suspension with onboard air compressor and air reservoirs
- Heavy-duty anti-sway bar



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



- Absorbers have high temperature coils
- Each absorber temperature is monitored



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

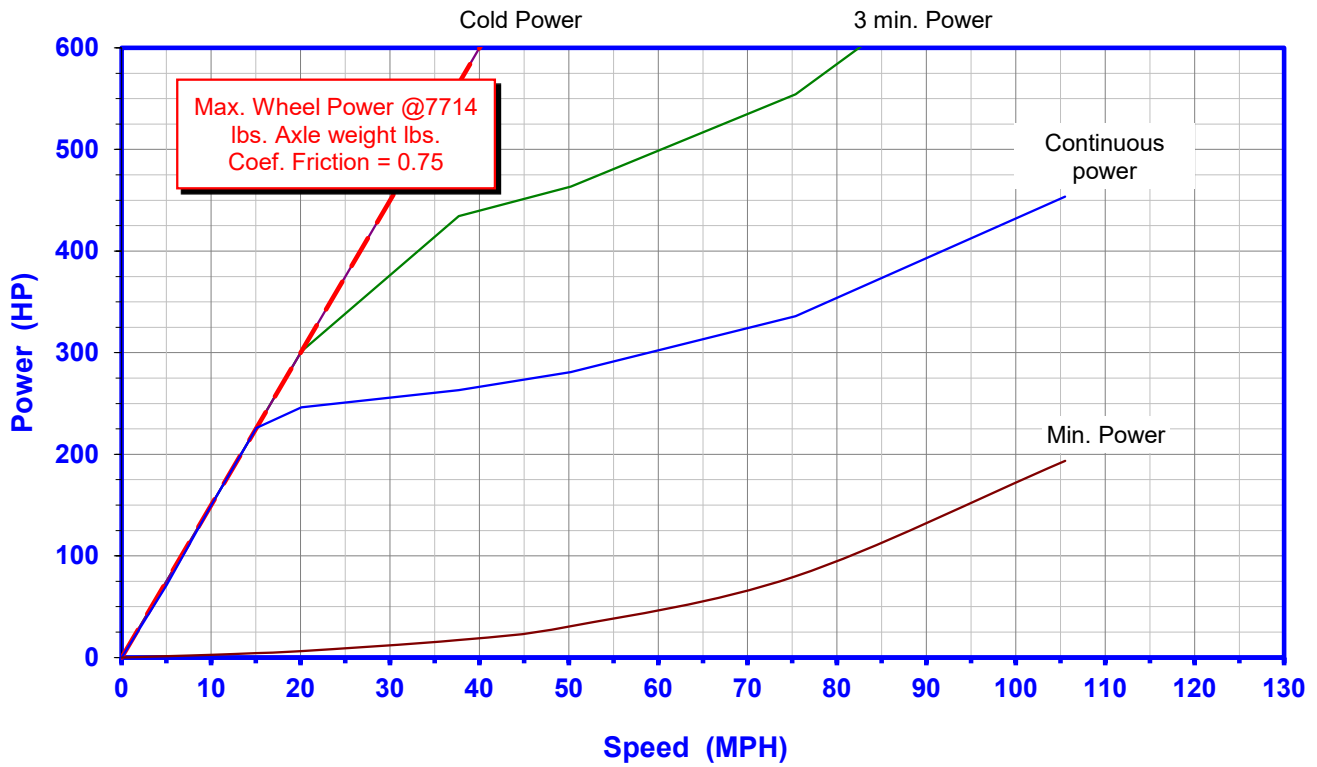


- Powered by a generator instead of batteries

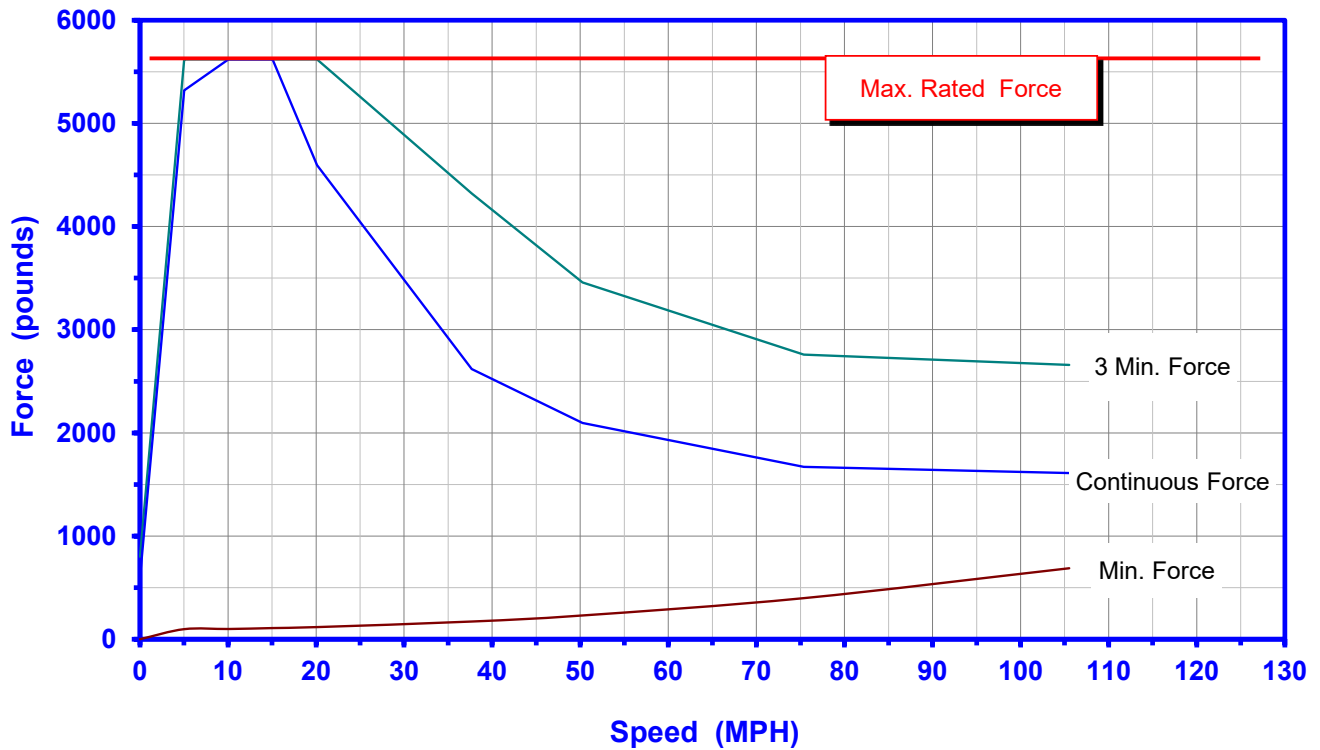


- Easy access maintenance and spare tire

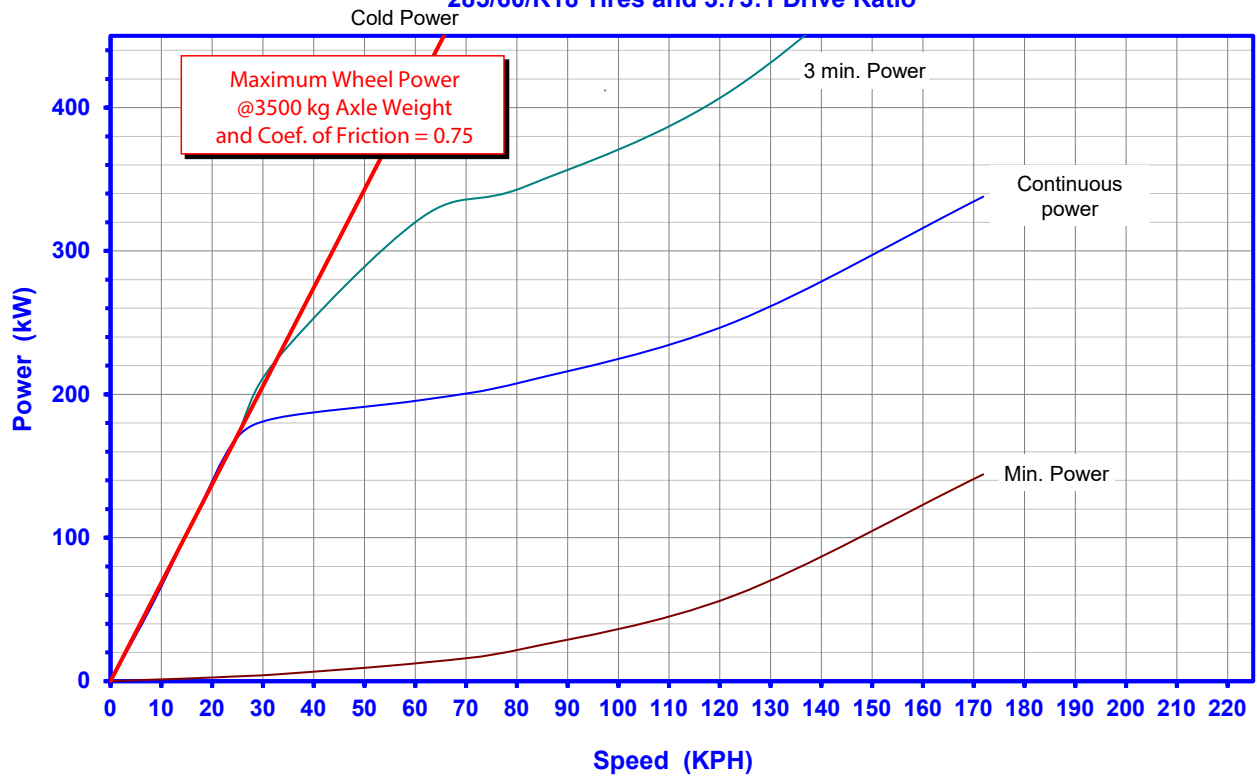
RS-25K Power Absorption
285/60/R18 Tires and 3.73 :1 Drive Ratio



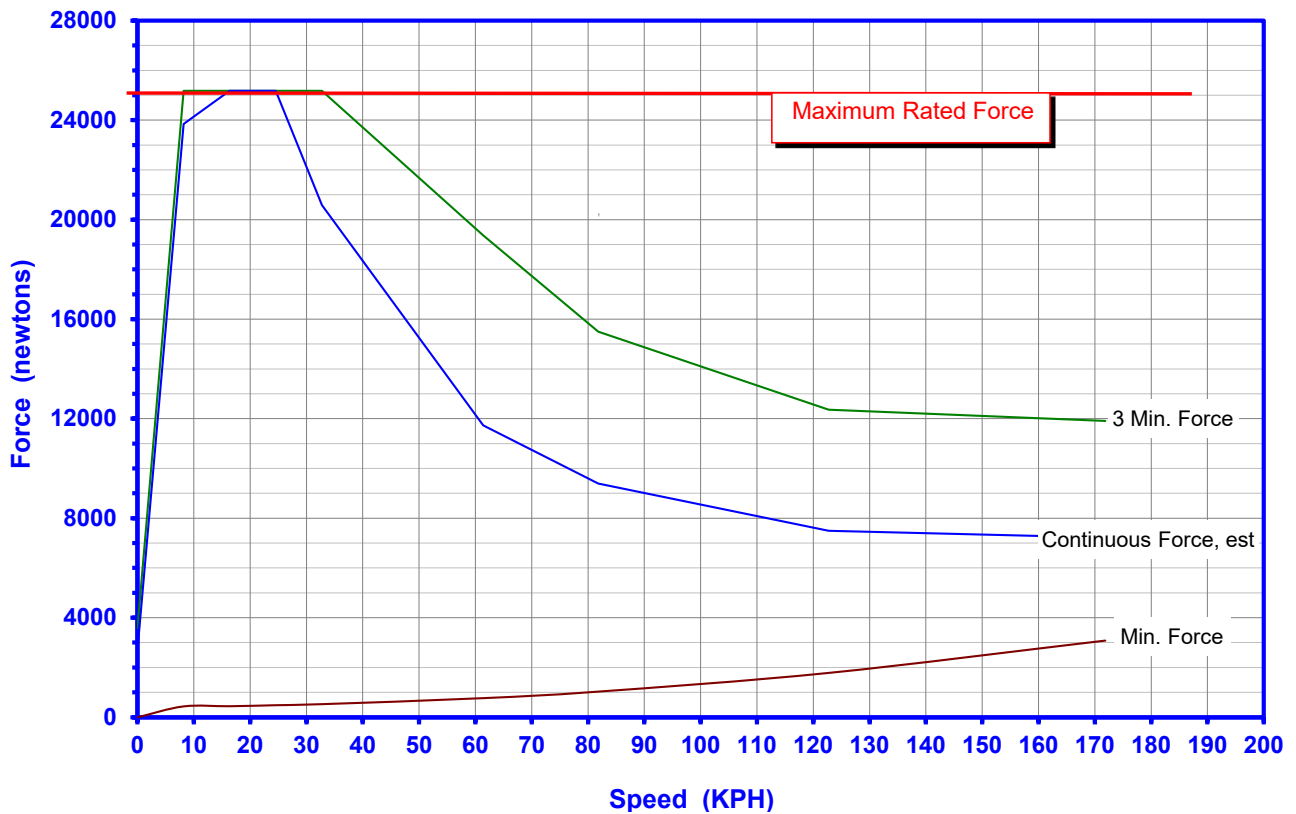
RS-25K Drawbar Pull
285/60/R18 Tires and 3.73:1 Drive Ratio



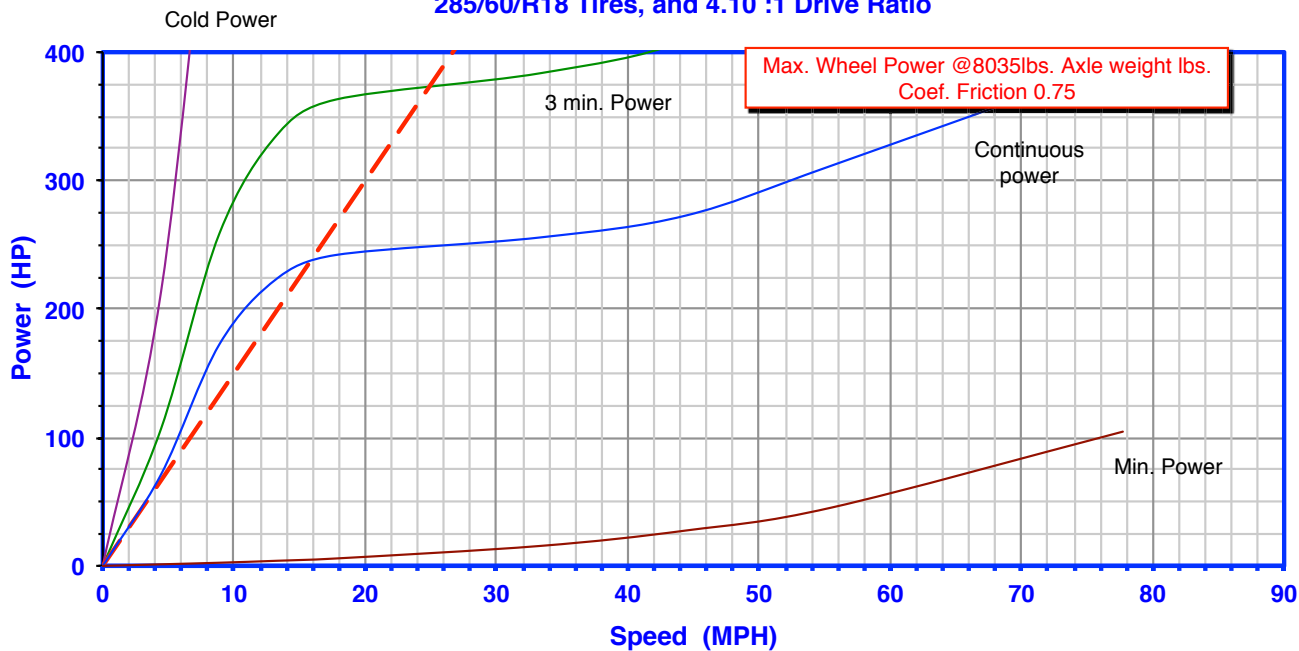
RS-25K Power Absorption
285/60/R18 Tires and 3.73:1 Drive Ratio



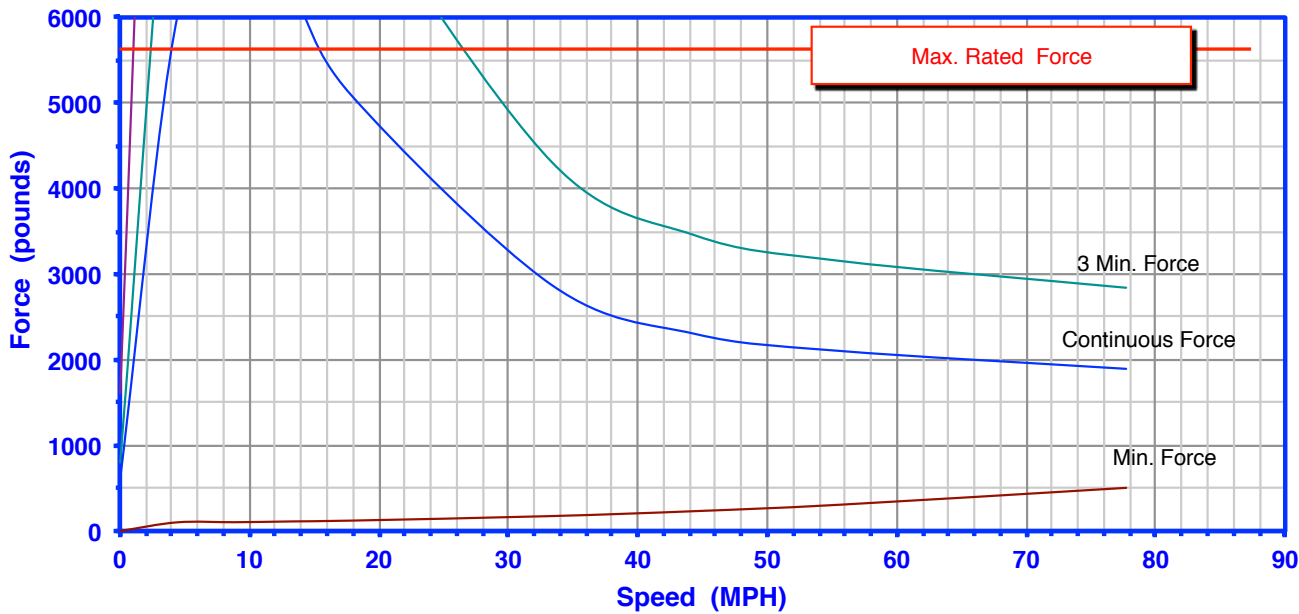
RS-25K Drawbar Force
285/60/R18 Tires and 3.73:1 Drive Ratio



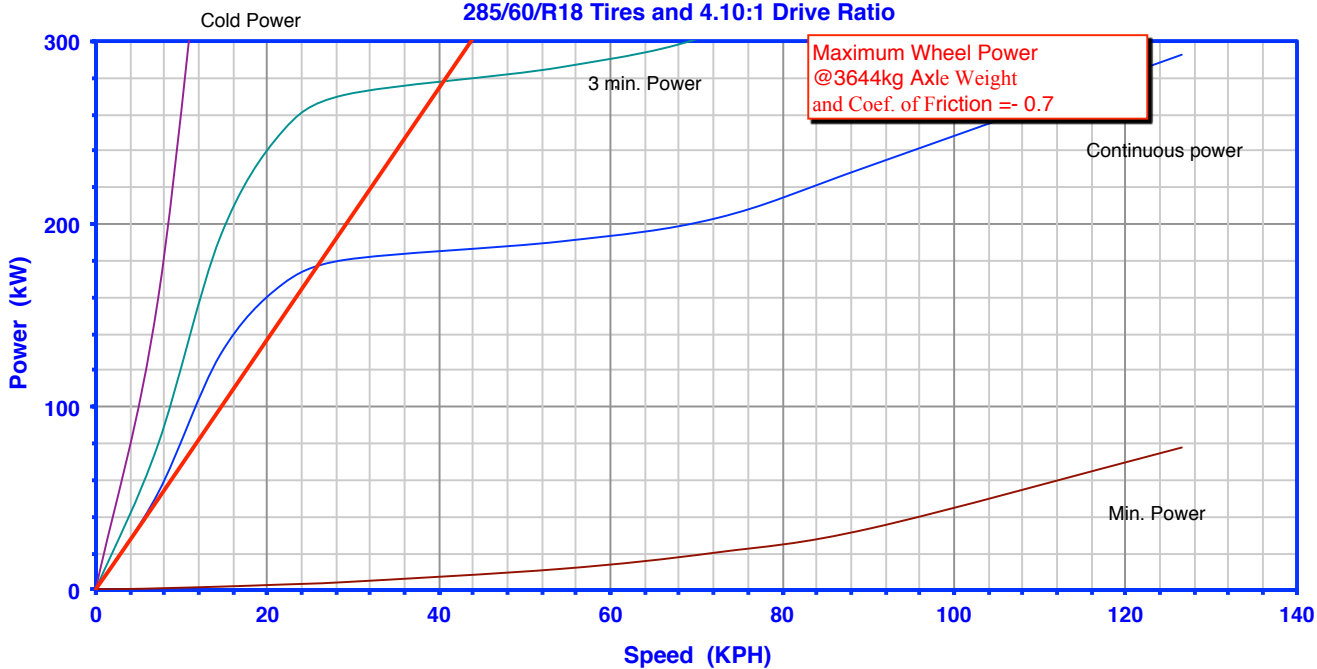
RS-25K Power Absorption
285/60/R18 Tires, and 4.10 :1 Drive Ratio



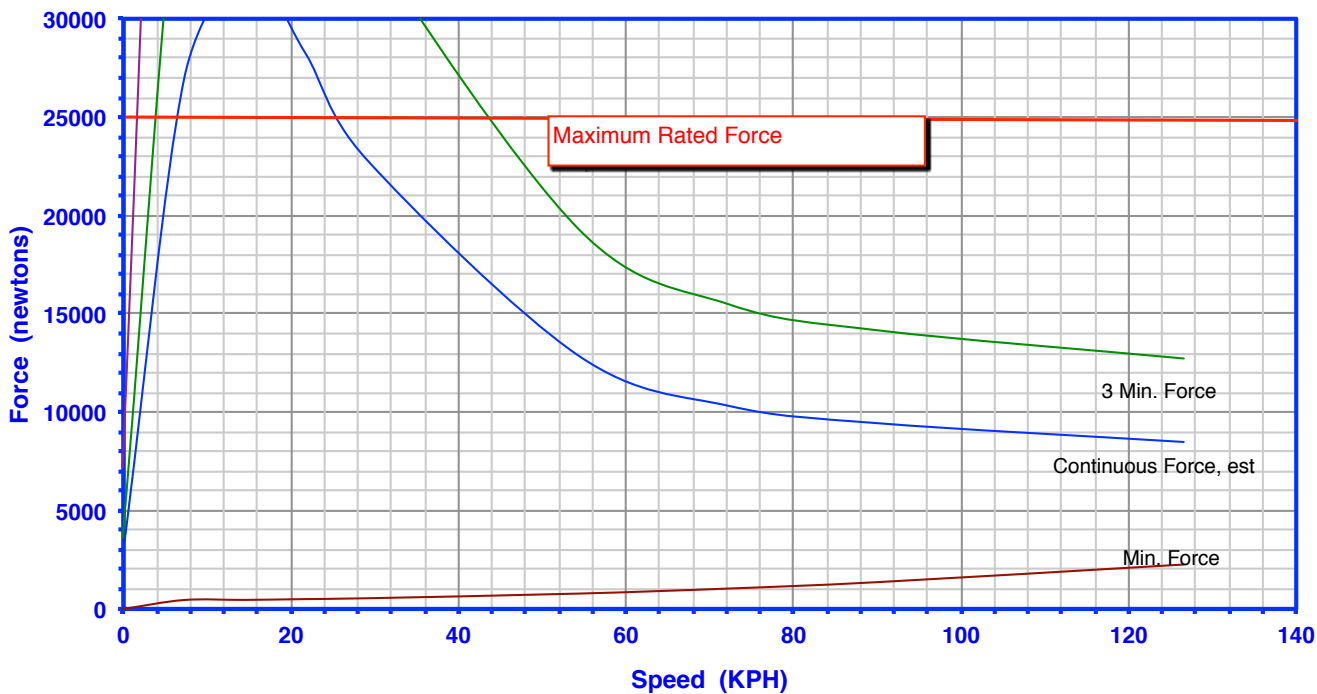
RS-25K drawbar pull
285/60/R18 tires, and 4.10:1 Drive Ratio



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285/60/R18 Tires and 4.10:1 Drive Ratio



RS-25K Drawbar Force
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Everything you need to succeed

