



RS-90K / Towing Dynamometer



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 dynamometer 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.

DynPro₂

Taylor Dynamometer's DynPro₂ state-of-the-art data acquisition and control system makes testing simple, but also fully controls the dynamometer 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-90K Specifications

- Ruggedized, WiFi, touch screen tablet PC controller with integrated heads-up display
- DynPro₂ 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

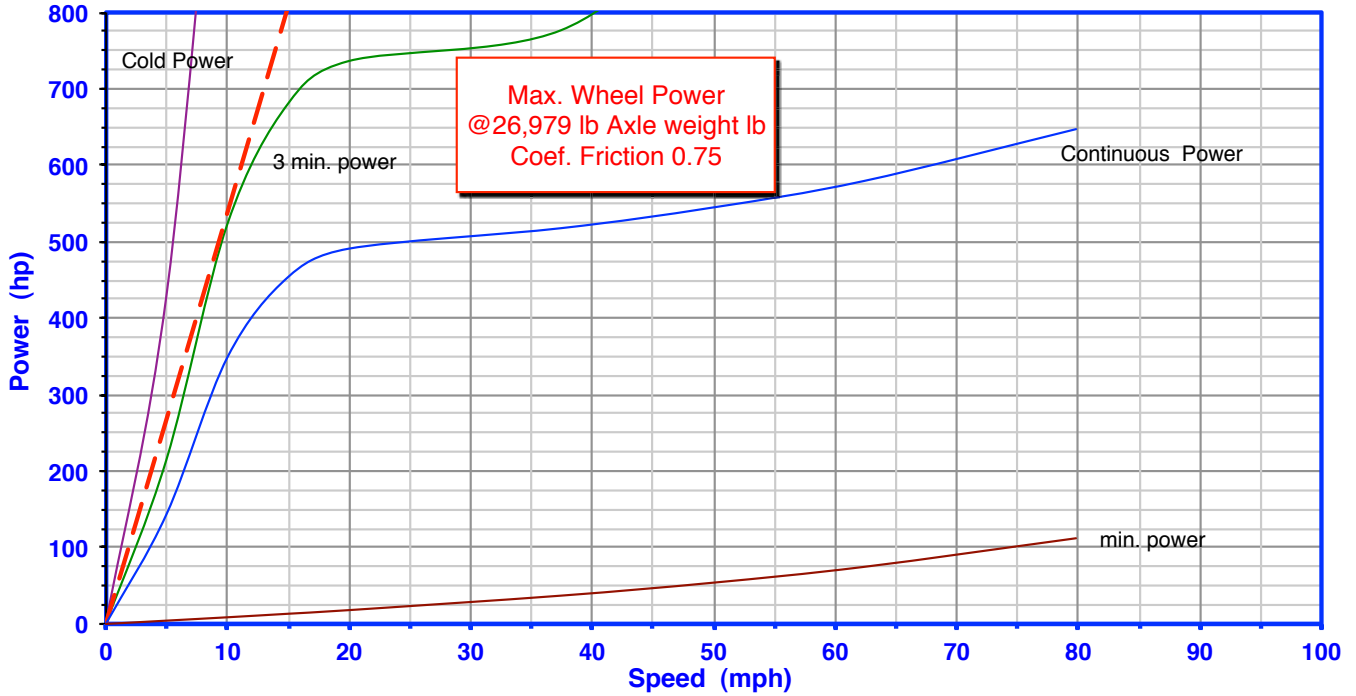
Notes:

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

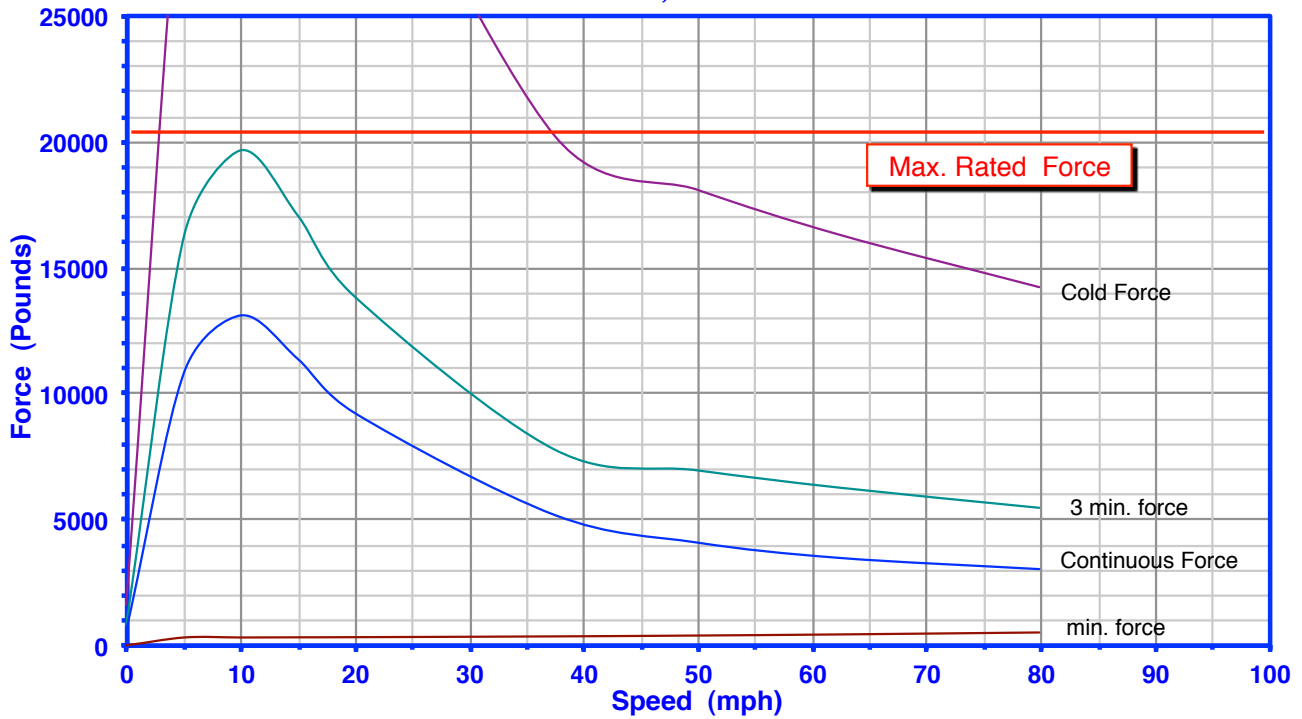
Taylor's RS and RSL series towing dynamometers are intended to be used on a test track. While Taylor stands behind the road worthiness of the trailers, the specialized control features and handling interactions between the towing dynamometer and test vehicle result in our recommendation to use them within controlled test facilities. Obtaining regulatory approvals for road licensing is the responsibility of the end user.

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.

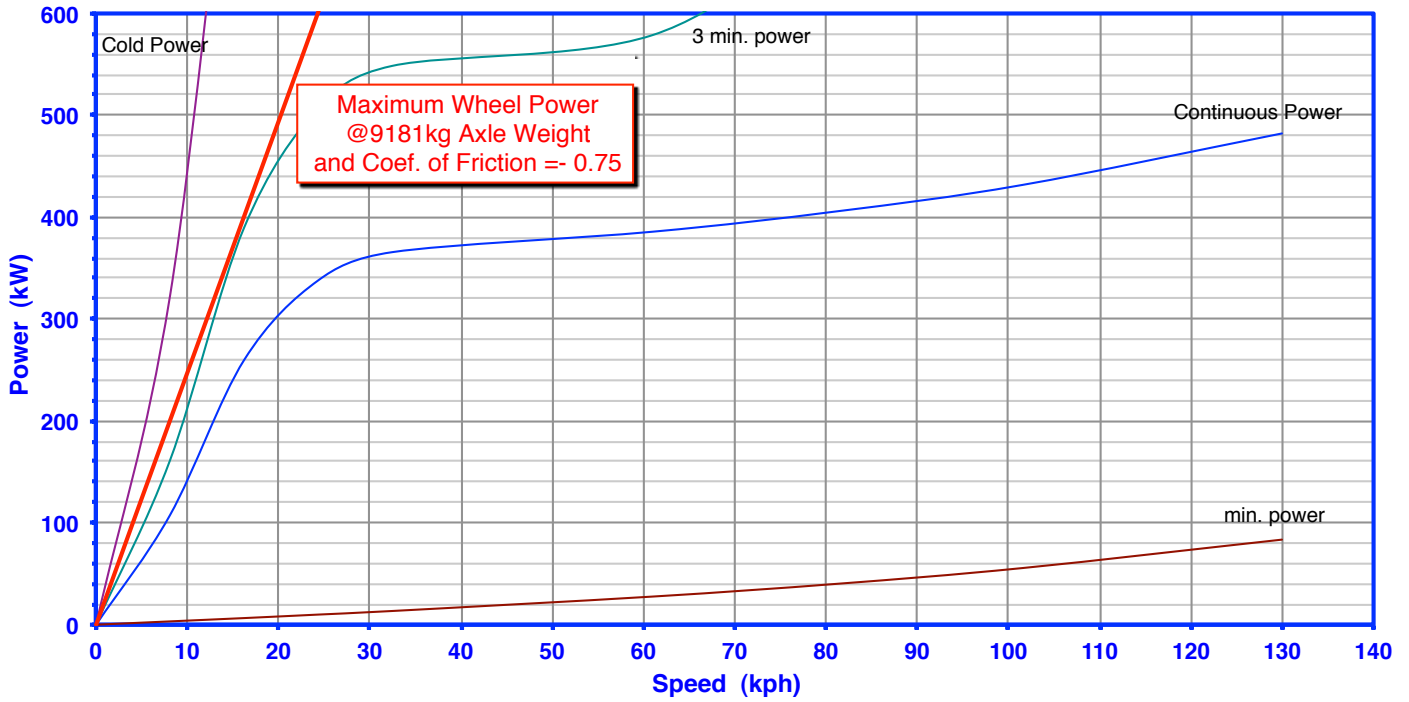
RS-90K Power Absorption
11.00 24.5 Tires, and 5.13 :1 Drive Ratio



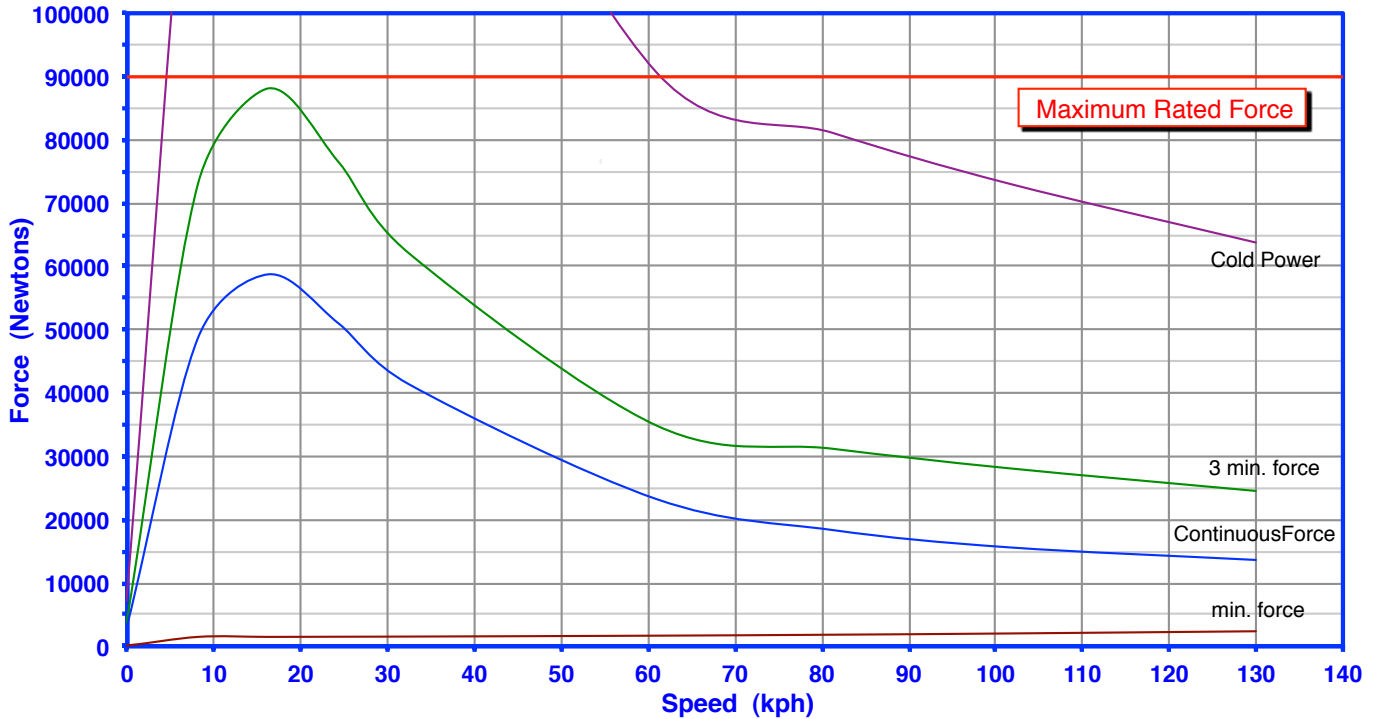
RS-90K Drawbar Pull
11.00 24.5 Tires, and 5.13:1 Drive Ratio



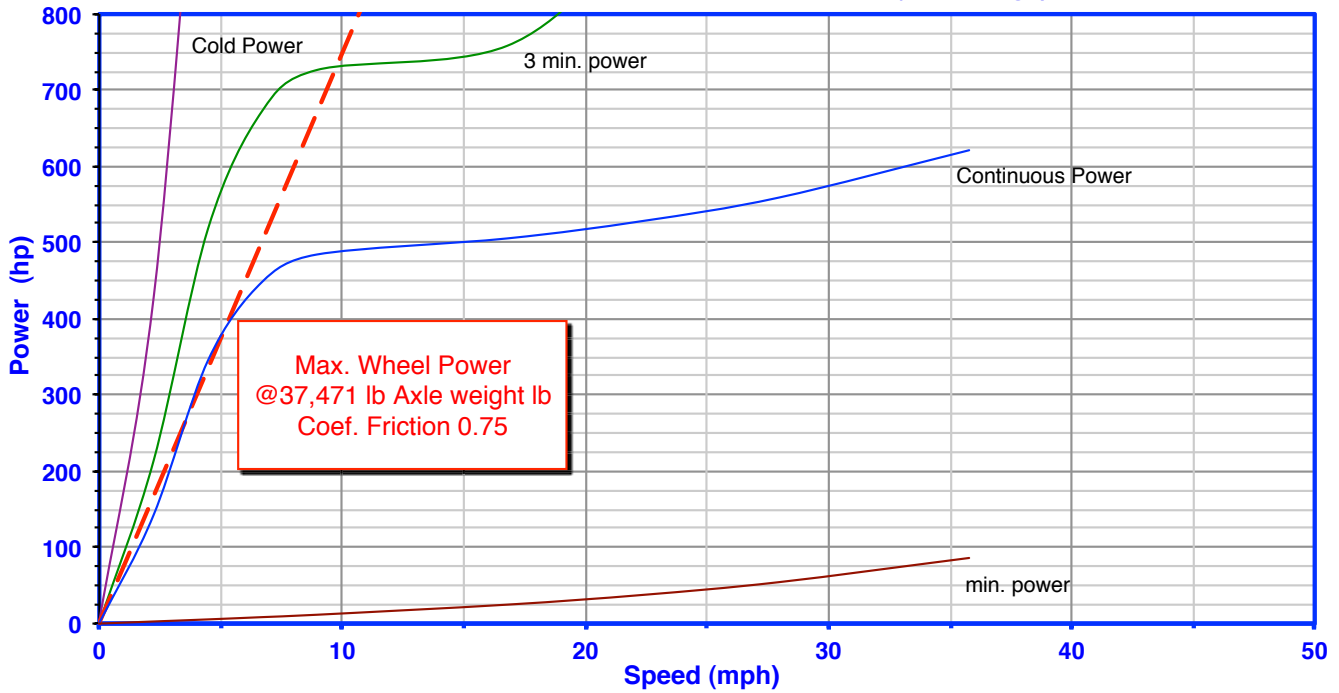
RS-90K Power Absorption
11.00 24.5 Tires and 5.13:1 Drive Ratio



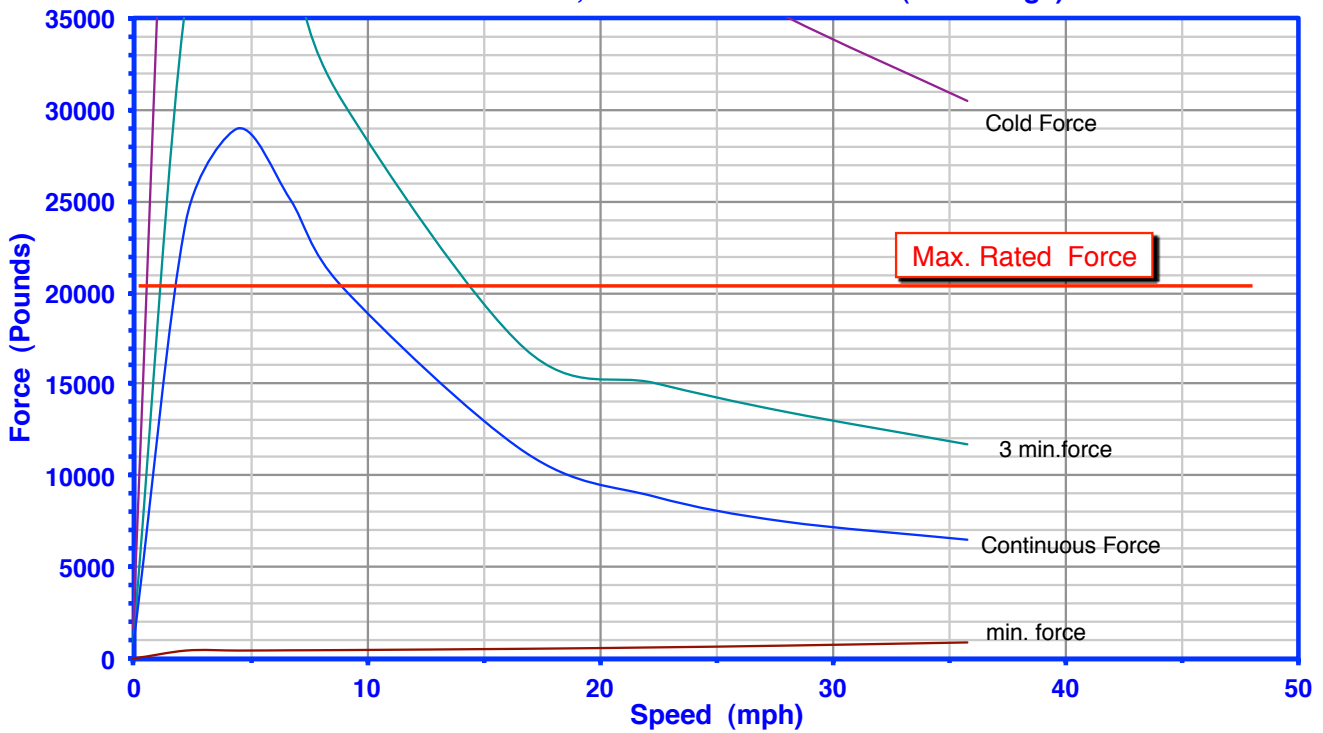
RS-90K Drawbar Force
11.00 24.5 Tires and 5.13:1 Drive Ratio



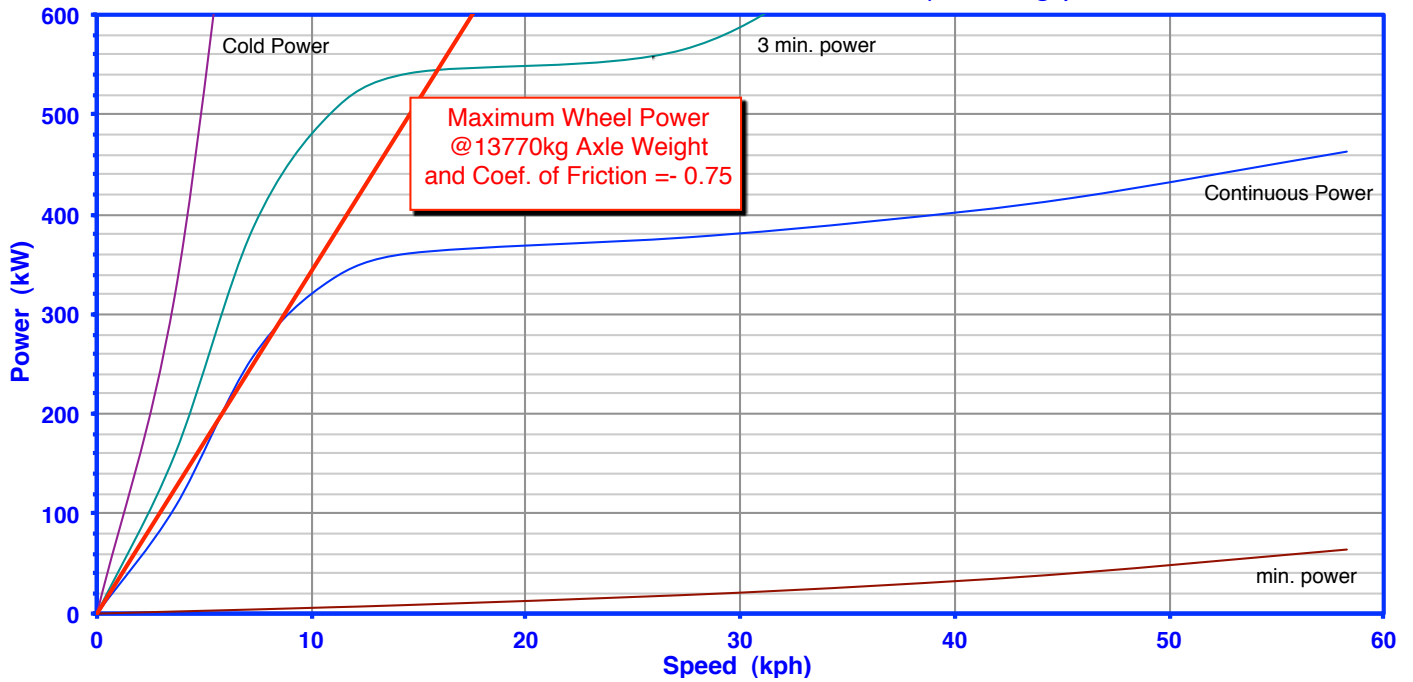
RS-90K Power Absorption
11.00 24.5 Tires, and 11.44 :1 Drive Ratio (Low Range)



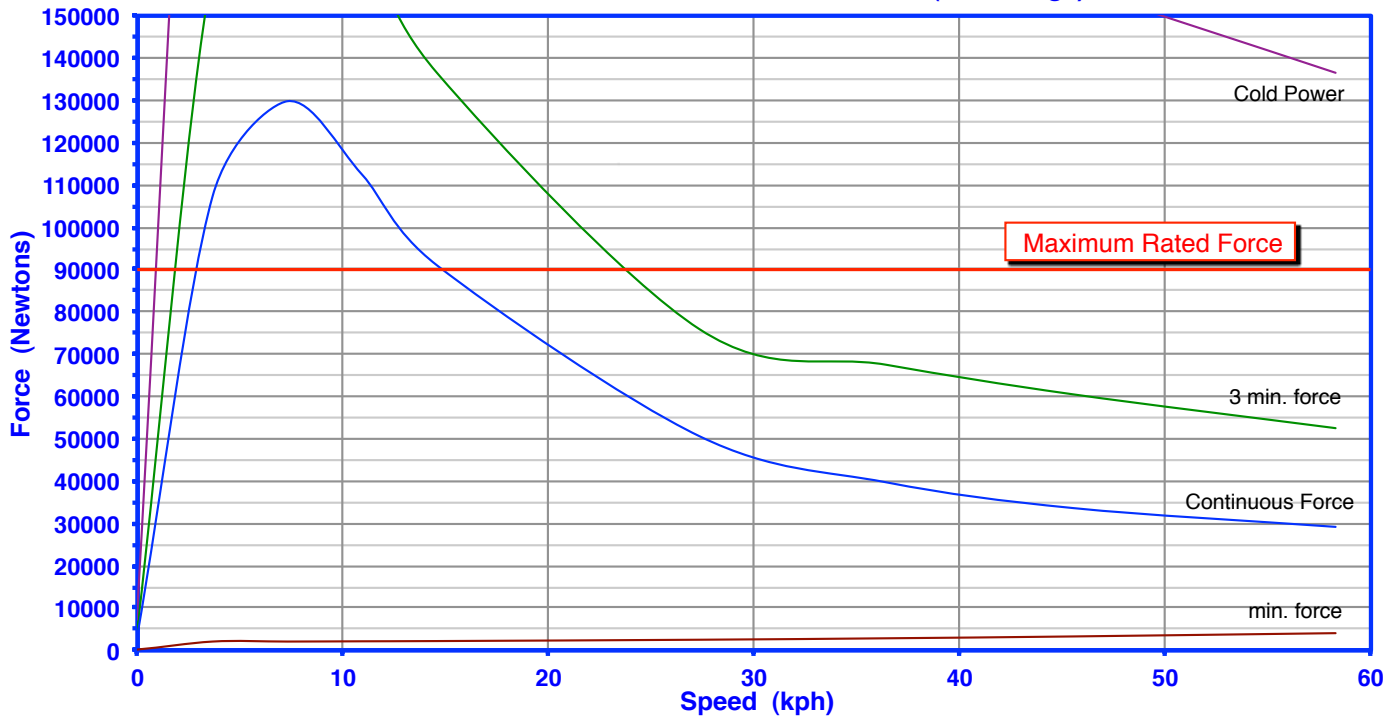
RS-90K Drawbar Pull
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Everything you need to succeed

