



## RS-40K / Towing Dynamometer



### RS-40K Towing Dynamometer

Taylor Dynamometer's RS-40K towing dynamometer is designed for testing today's DOT Vehicles (Classes 5 and 6) which include trucks and buses. The RS-40K is built with a heavy-duty steel frame, industrial axle and rides on an air ride suspension. The RS-40K is designed to maintain 40,000 Newtons of constant drawbar force and the ability to simulate an uphill slope of 25%. The dyno uses eddy current absorbers with special high temperature coils. The power is provided by an industrial generator. Testing is unlimited at low speeds.

### DynPro<sub>2</sub>

Taylor Dynamometer's DynPro<sub>2</sub> state-of-the-art data acquisition and control system makes testing simple, but also fully controls the dyno wirelessly. The DynPro<sub>2</sub> 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 DynPro<sub>2</sub>:

- 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

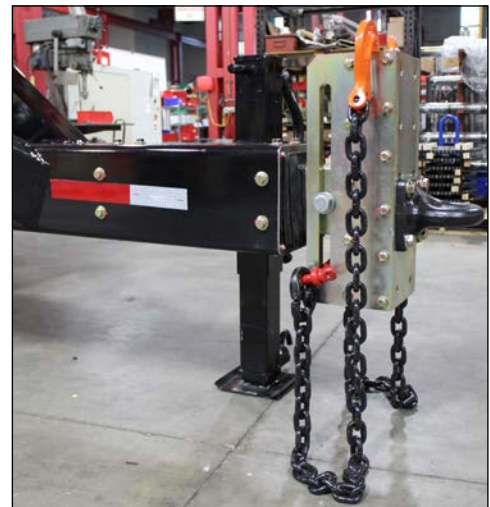
### Hill Simulation Features

- Simulate slope
- Compensate for actual slope
- Simulate trailer weight and aero
- Compensate for vehicle weight
- Import/export Excel® file
- Auto record data
- Drivers trace to aid in testing accuracy

**Everything you need to succeed**

## RS-40K Features and Specifications

- Two Absorbers with high temperature coils (disengageable for transport)
- Industrial diesel generator (with remote start)
- Ruggedized, WiFi, touchscreen tablet PC controller
- Pintle hitch included
- DynPro<sub>2</sub> Software with Hill Simulation
- Wireless and CAT5 communication
- Air ride suspension with on-board air compressor and accessory hose reel
- Surge brakes or glad-hands with ABS
- On-board air system
- Heavy-duty steel frame construction
- Parking brake and break-away brake system
- Landing leg
- NEMA enclosure for electronics
- LED amber warning beacon
- Tire size: 22.5 or 24.5 dually or super singles available
- Maximum drawbar: 40,000 N (8,992 lbf) on surfaces with a coefficient of traction of 0.8 or higher
- Max speed with transfer case in low gear: 55 kph (34 mph)
- Max speed with transfer case in high gear: 120 kph (75 mph)
- Weight: 5,829 kg (12,846 lb)
- Length: 583 cm (230 in.)
- Width: 244 cm (96 in.)
- Height: 272 cm (107 in.)
- Calibration stand (optional)
- CE Certification (optional)



### Notes:

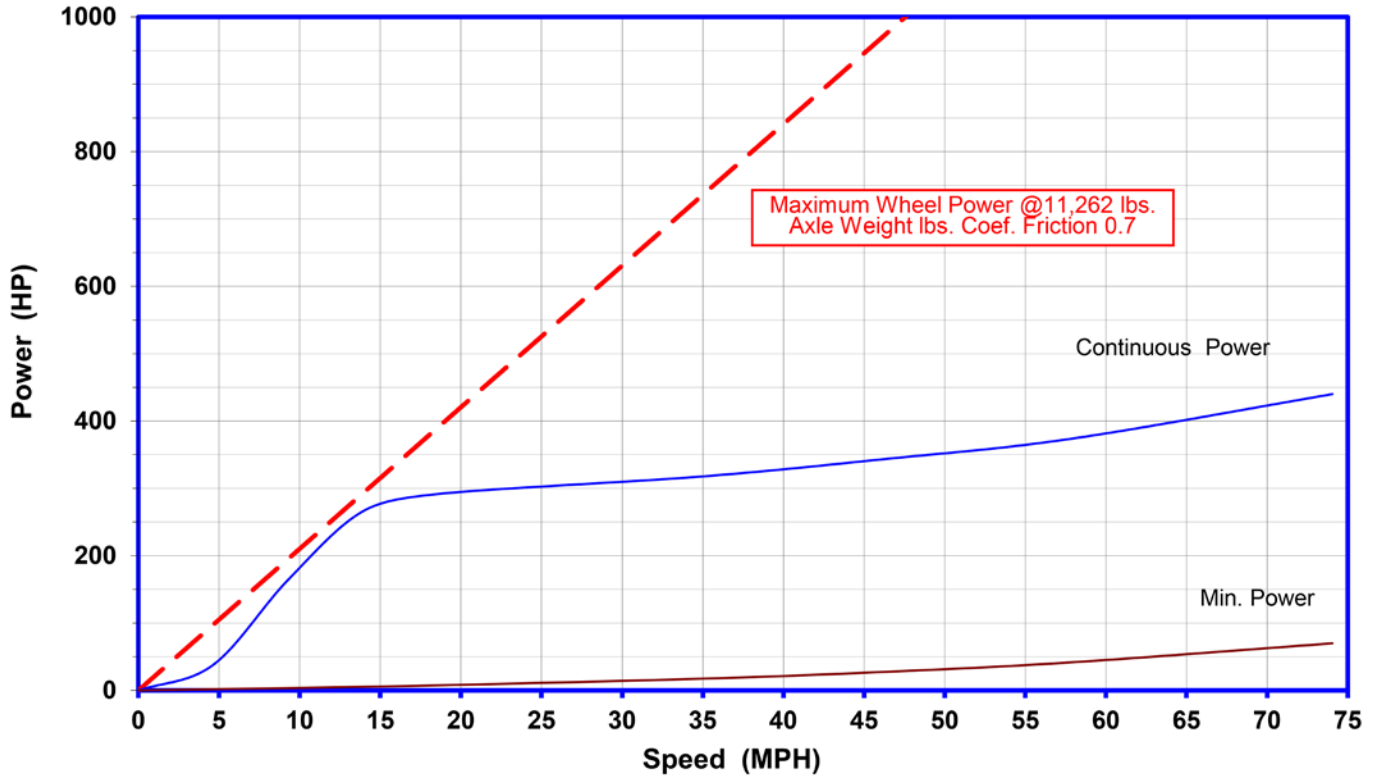
Specifications are subject to change without notice to improve the product without sacrificing quality or performance.

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.

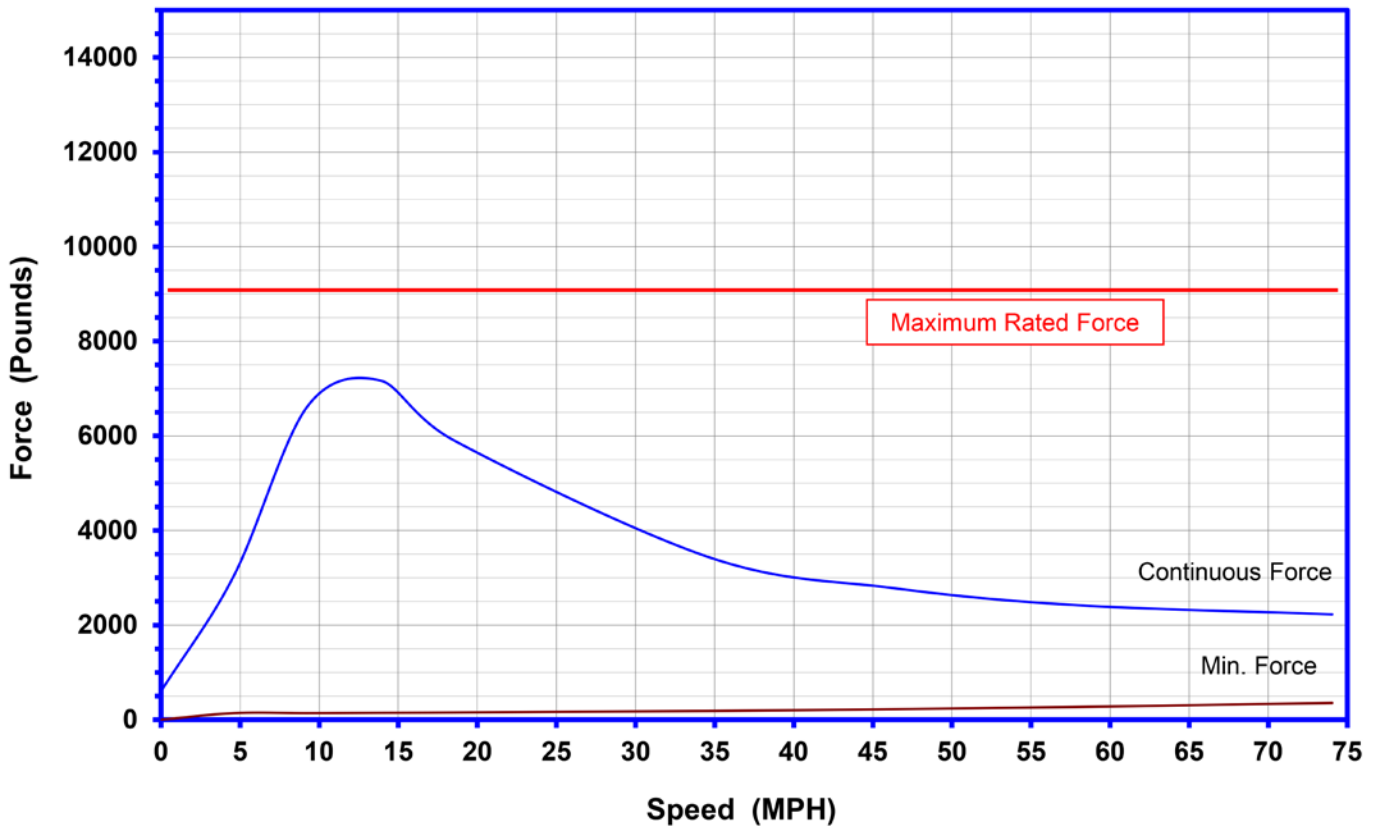
The data acquisition and control system offered here includes a software license that allows the system to operate and collect data. Please be aware that the license initially installed is a temporary license that is only active for 120 days from the date of shipment from Taylor Dynamometer. You must 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.



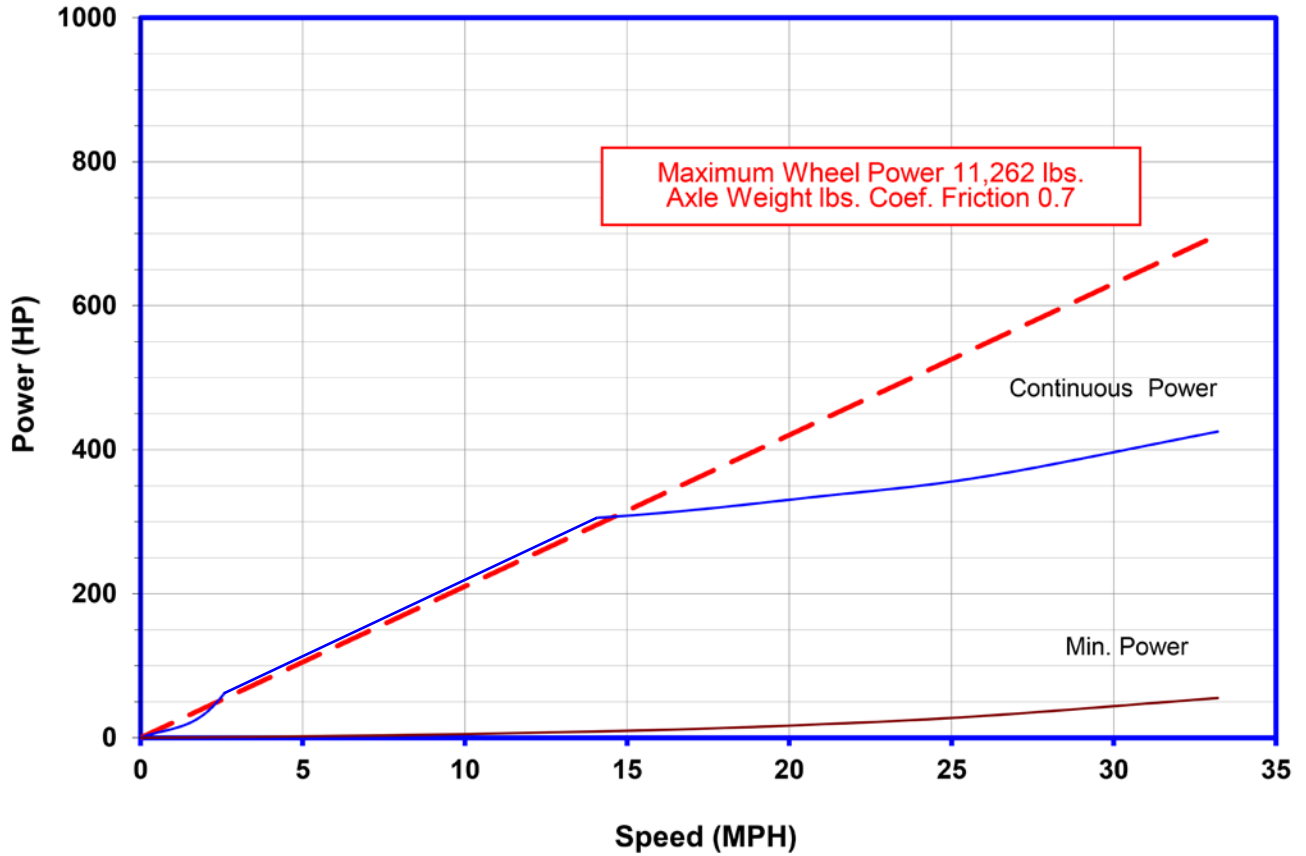
RS-40K Power Absorption  
295/75/R22.5 Tires and 5.13:1 Drive Ratio



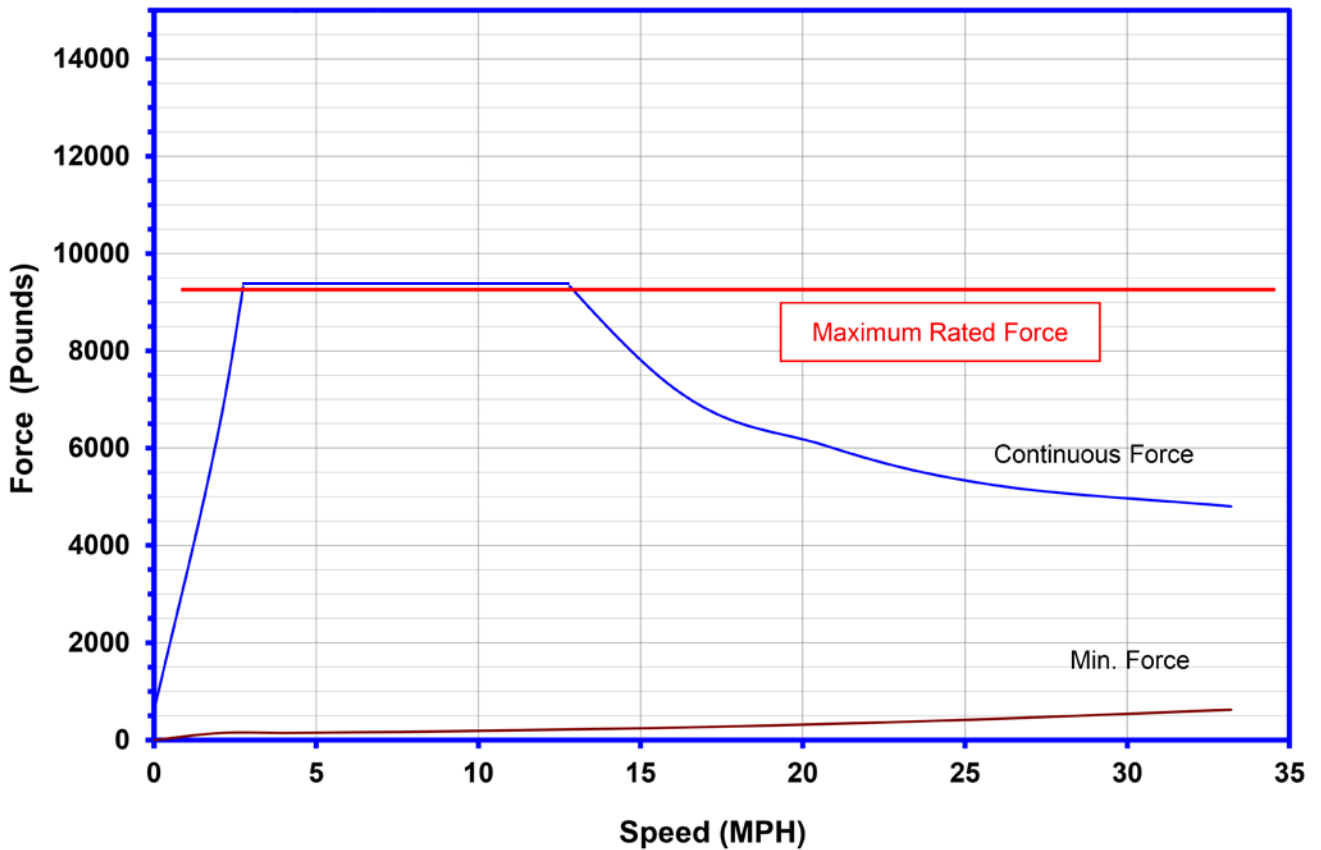
RS-40K Drawbar Force  
295/75/R22.5 Tires and 5.13:1 Drive Ratio



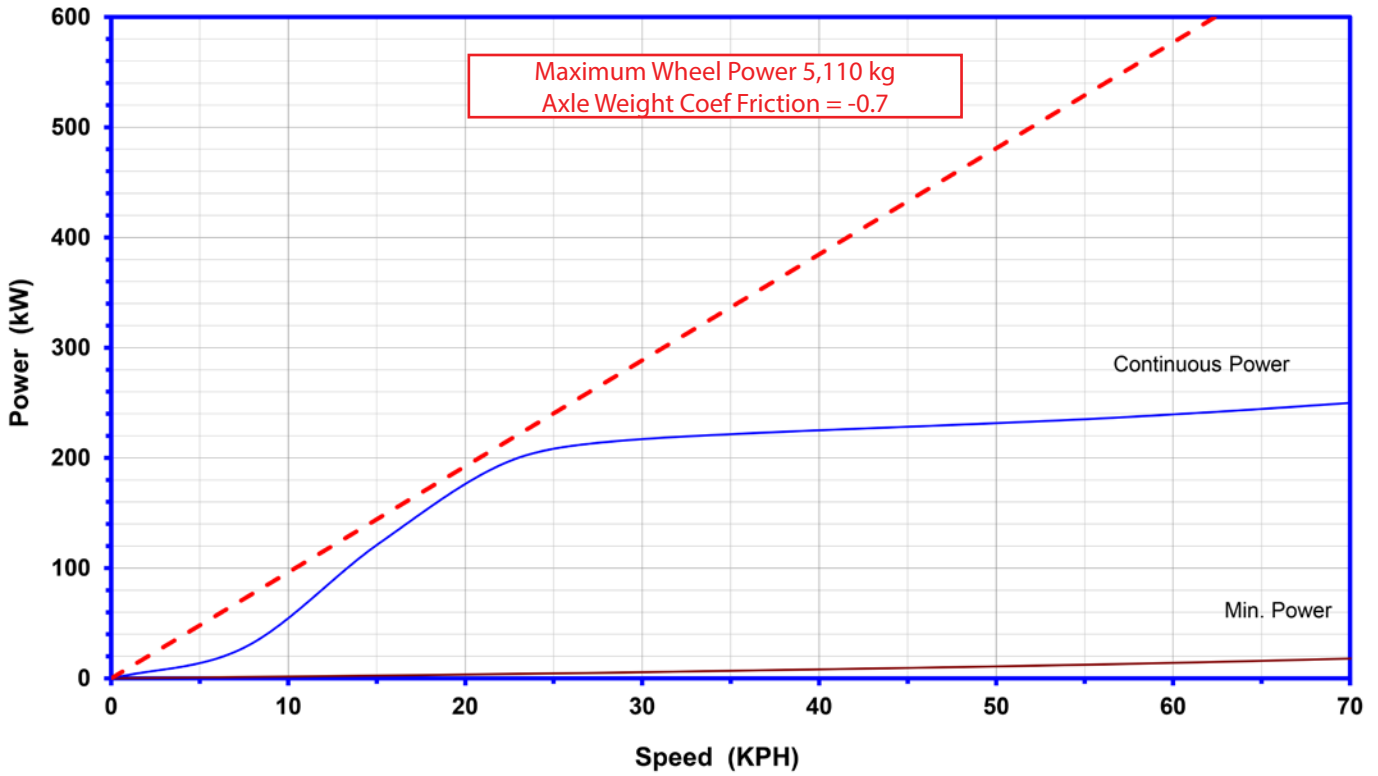
RS-40K Power Absorption  
 295/75/R22.5 Tires and 11.44:1 Drive Ratio



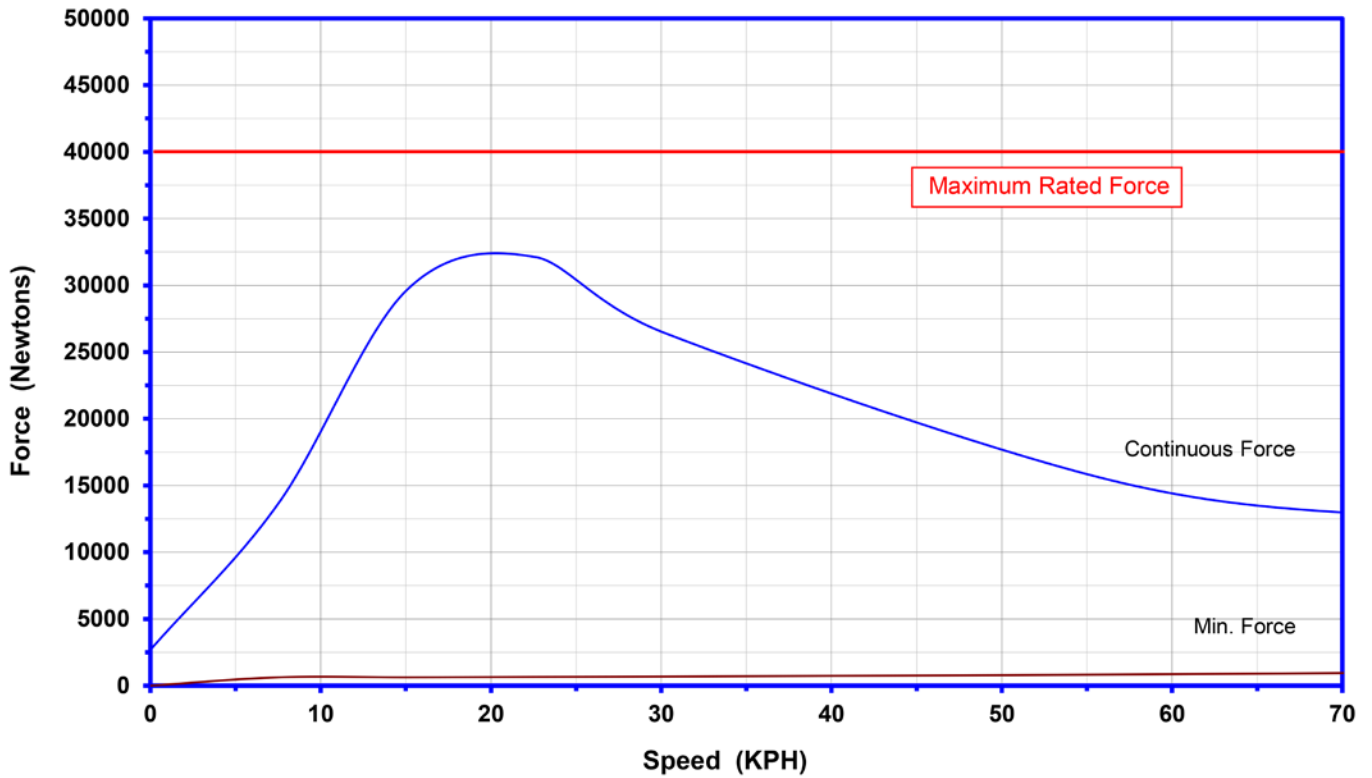
RS-40K Drawbar Force  
 295/75/R22.5 Tires and 11.44:1 Drive Ratio



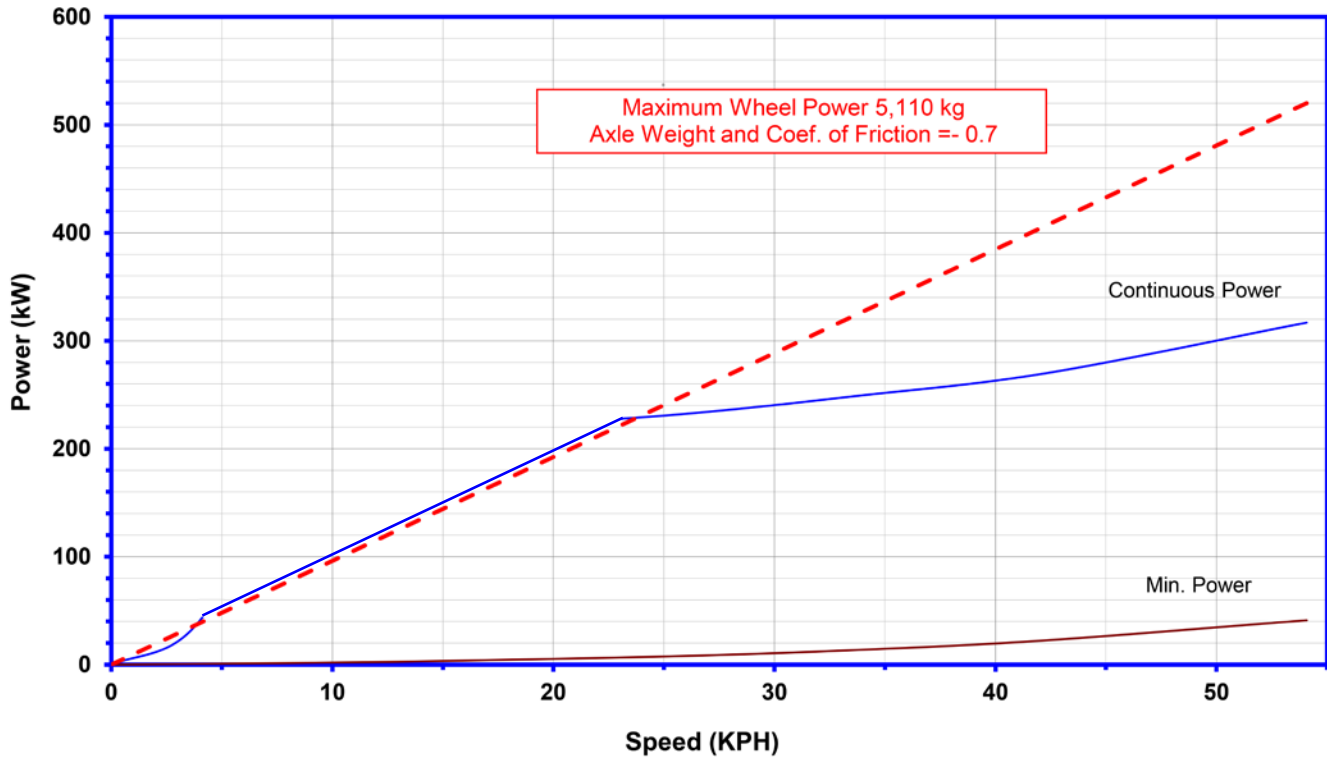
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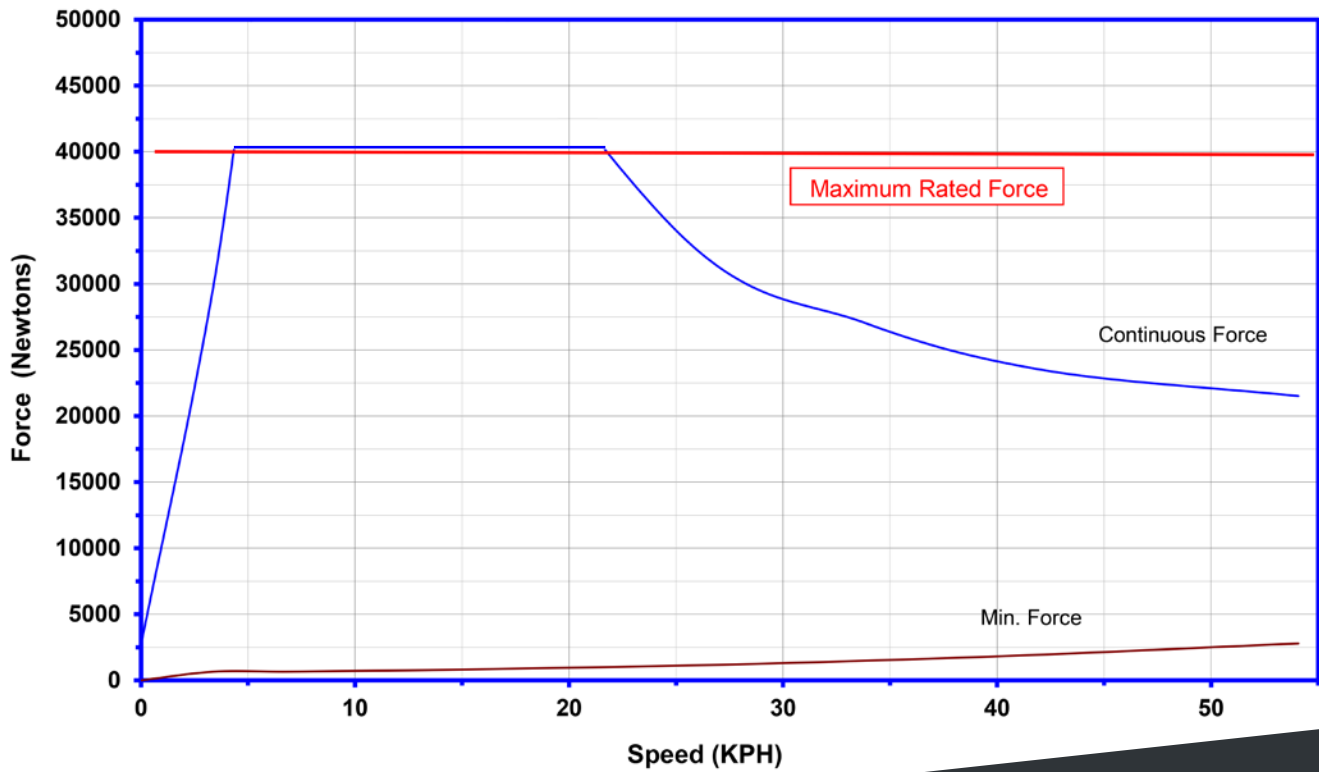
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