



RS-135K / Towing Dynamometer



RS-135K Towing Dynamometer

Taylor Dynamometer's RS-135K towing dynamometer is designed for testing off-highway construction and agricultural equipment. Built with a heavy-duty steel frame, industrial axles and rides on an air ride suspension, the RS-135K can maintain up to 135,000 Newtons of constant drawbar pull with 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's 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 and can display up to 62 multiple input channels including temperature, frequency and voltage. The DynPro₂ system offers hill simulation that exceeds 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

Everything you need to succeed



RS-135K Specifications

- DynPro₂ data acquisition and control system
- Ruggedized, WiFi, touchscreen tablet PC controller with integrated heads-up display
- Wireless or CAT5 communication
- Heavy-duty frame construction
- Heavy-duty, industrial diesel generator (with remote start)
- Absorbers with high temperature coils
- Dolly allows for low torque weight testing
- Air ride suspension with on board air compressor
- Input channels (62) including temperature, frequency and voltage
- Large ballast mounting pallet
- Largest drawbar shaft in the industry
- Surge brakes
- Tire size: 22.5 dually or super singles available
- Max drawbar pull as a single tow dyno: 135,000 Newtons (30,350 lbf)
- Max drawbar pull when coupled to 2 additional RS-135K tow dynos: 444,800 Newtons (100,000 lbf)
- Weight without ballast: 10,991 kg (24,225 lb)
- Length: 950 cm (374 in.)
- Width: 243.8 cm (96 in.)
- Height: 325 cm (128 in.)
- Maximum Speeds:
 - Transfer Case High Range: 80 kph (50 mph)
 - Transfer Case Low Range: 37 kph (23 mph)

Options

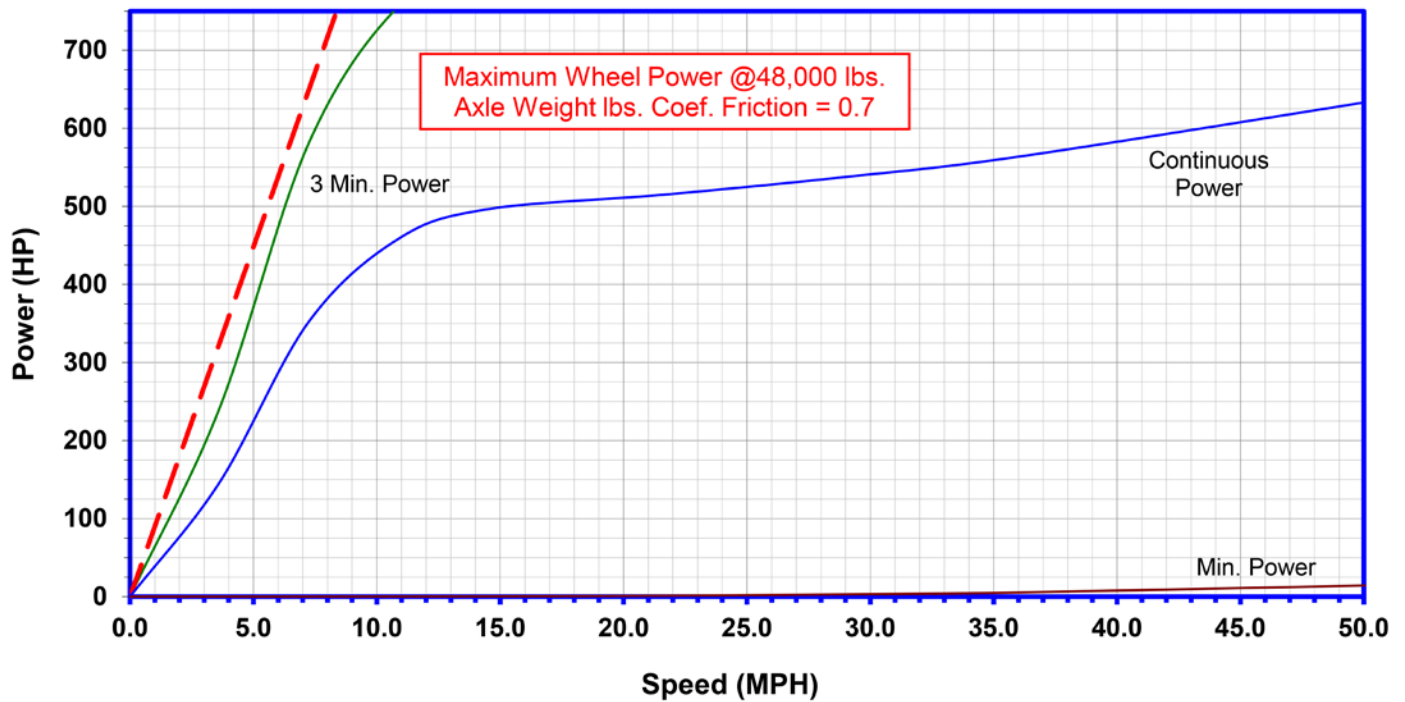
- Calibration stand
- Storage cabinet
- Ballast tank
- LED amber warning beacon
- CE Certification

Notes:

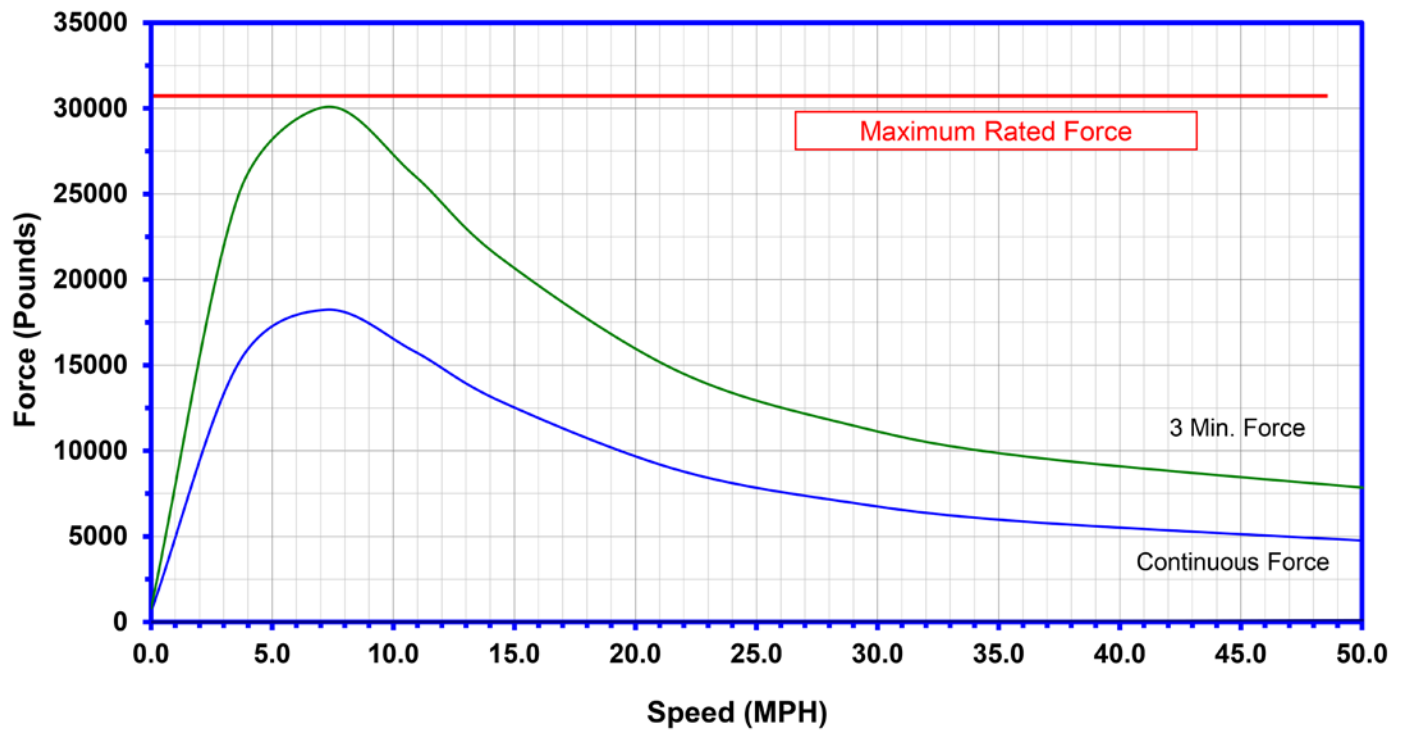
Specifications are subject to change without notice to improve the product without sacrificing quality or performance.

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.

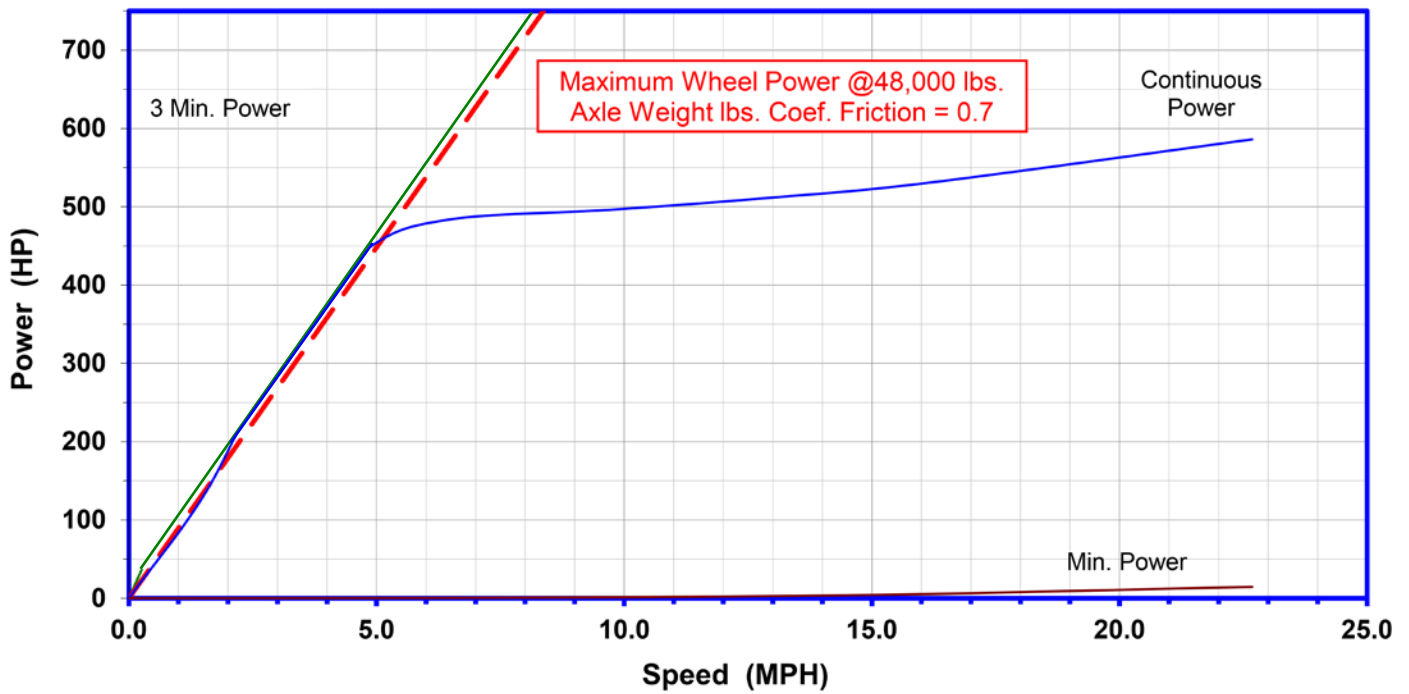
RS-135K Power Absorption
455/55/R22.5 Tires and 8.37:1 Drive Ratio



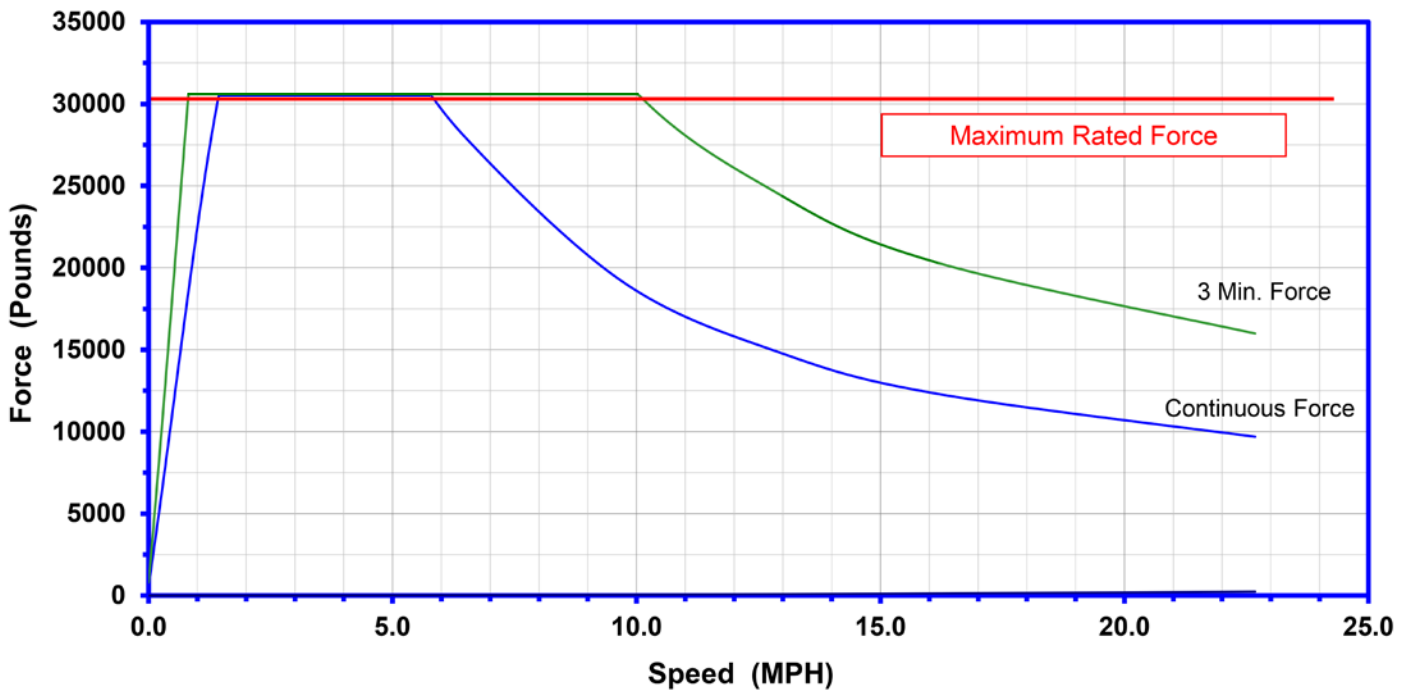
RS-135K Drawbar Force
455/55/R22.5 Tires and 8.37:1 Drive Ratio



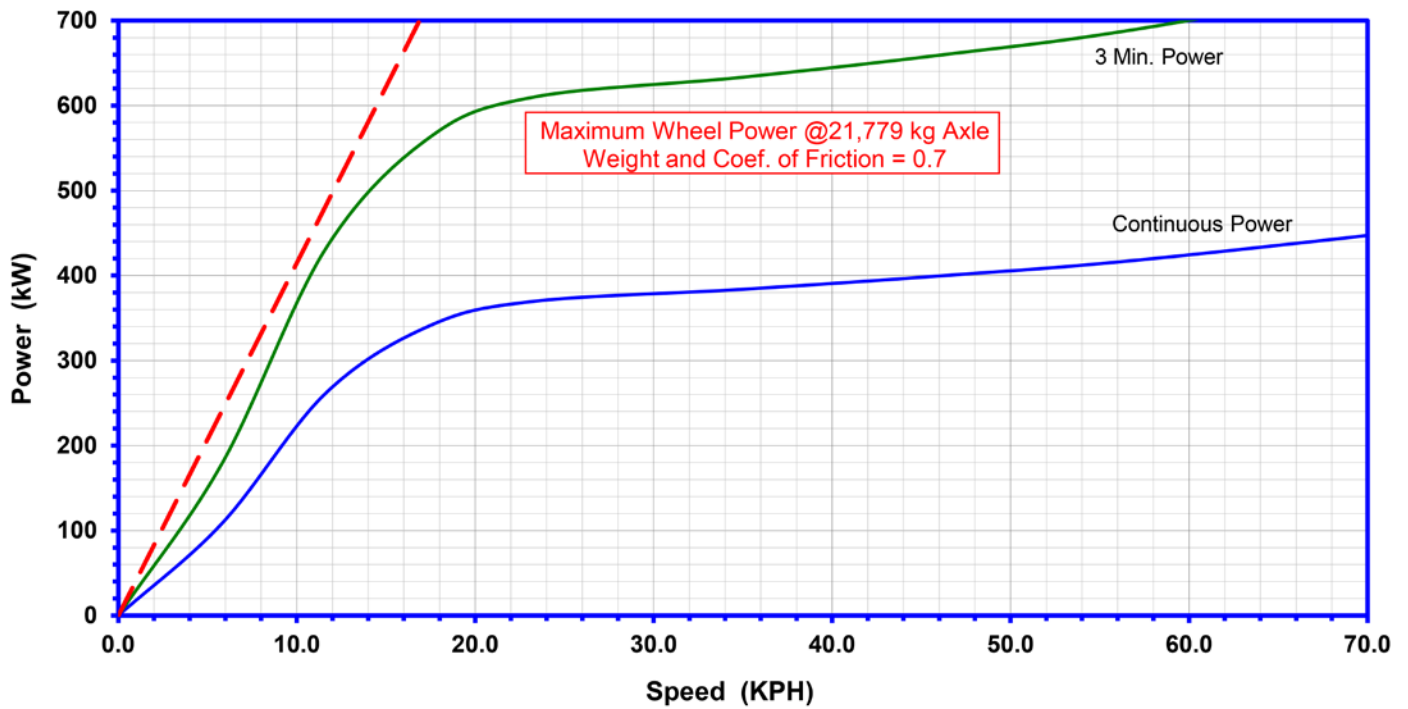
RS-135K Power Absorption
455/55/R22.5 Tires and 18.67:1 Drive Ratio



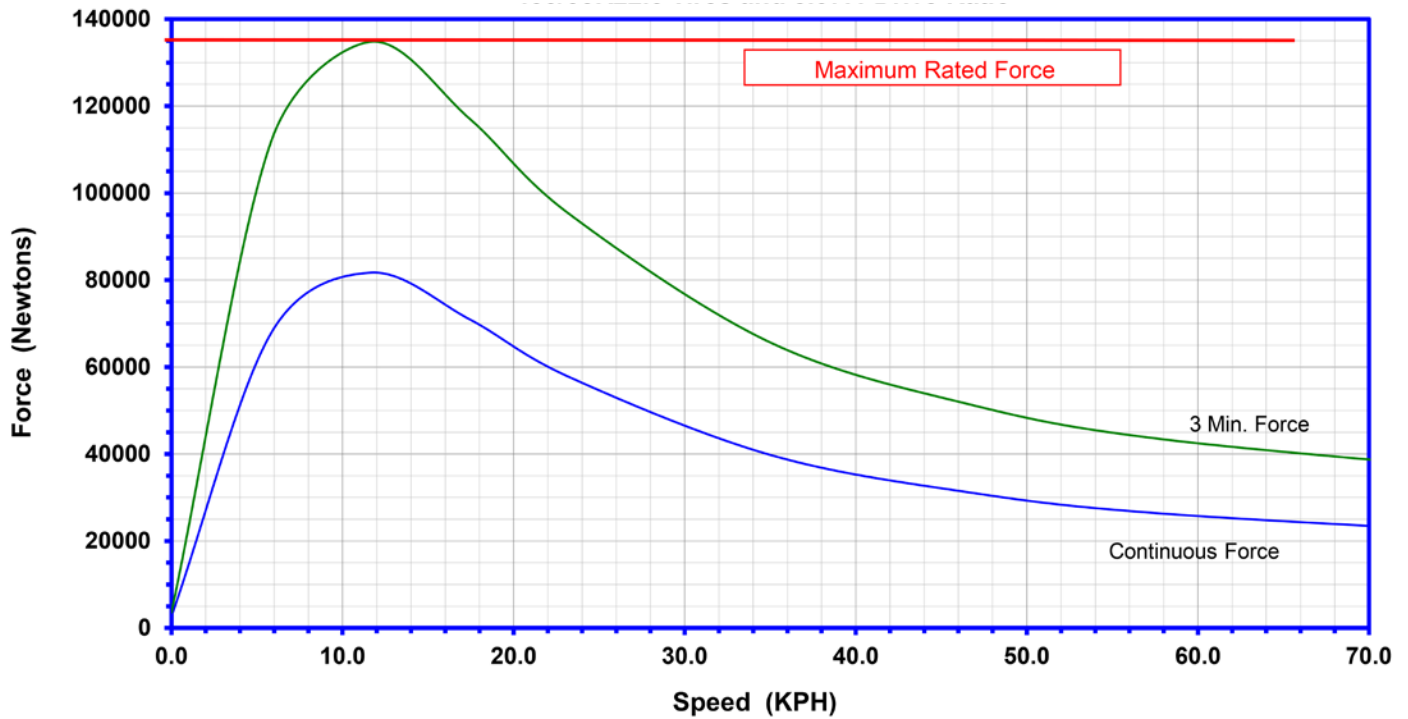
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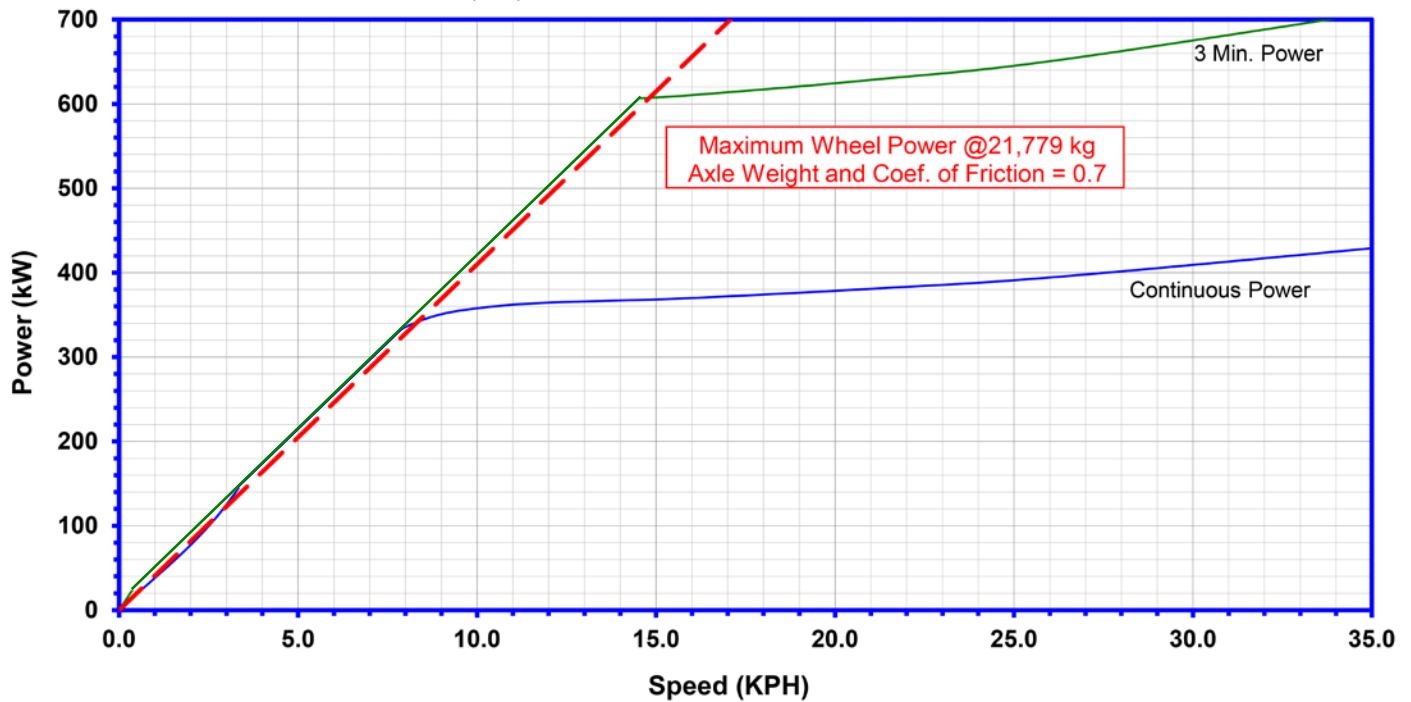
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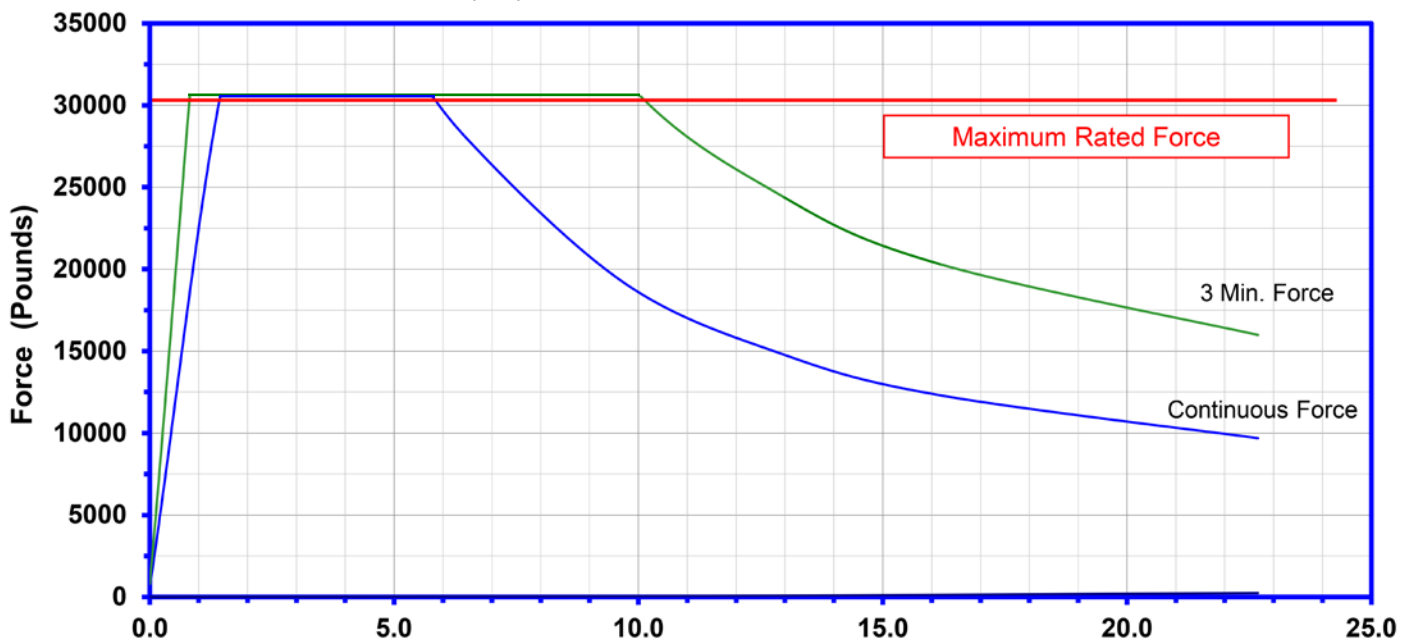
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