RS-125K / Towing Dynamometer

RS-125K Towing Dynamometer

Taylor Dynamometer's RS-125K 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-125K is built with a heavy-duty steel frame, heavy-duty industrial axles and rides on an air ride suspension. The RS-125K is designed to maintain 125,000 Newtons of constant drawbar pull and the ability to simulate an uphill slope of 25%. The towing dyno 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.

DynPro$_2$

Taylor Dynamometer's DynPro$_2$ state-of-the-art data acquisition and control system makes testing simple, but also fully controls the dyno wirelessly. The DynPro$_2$ 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$_2$:

- 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-125K Specifications

- Ruggedized, WiFi, touch screen tablet PC controller with integrated heads-up display
- DynPro$_2$ 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: 125,000 Newtons (28,101 lb)
- GVW: 25,000 kg (56,202 lb)
- Weight Dry: 14,000 kg (30,856 lb)
- Length: 1,262.3 cm (497 in.)
- Width: 259 cm (102 in.)
- Height: 317.5 cm (125 in.)

Options

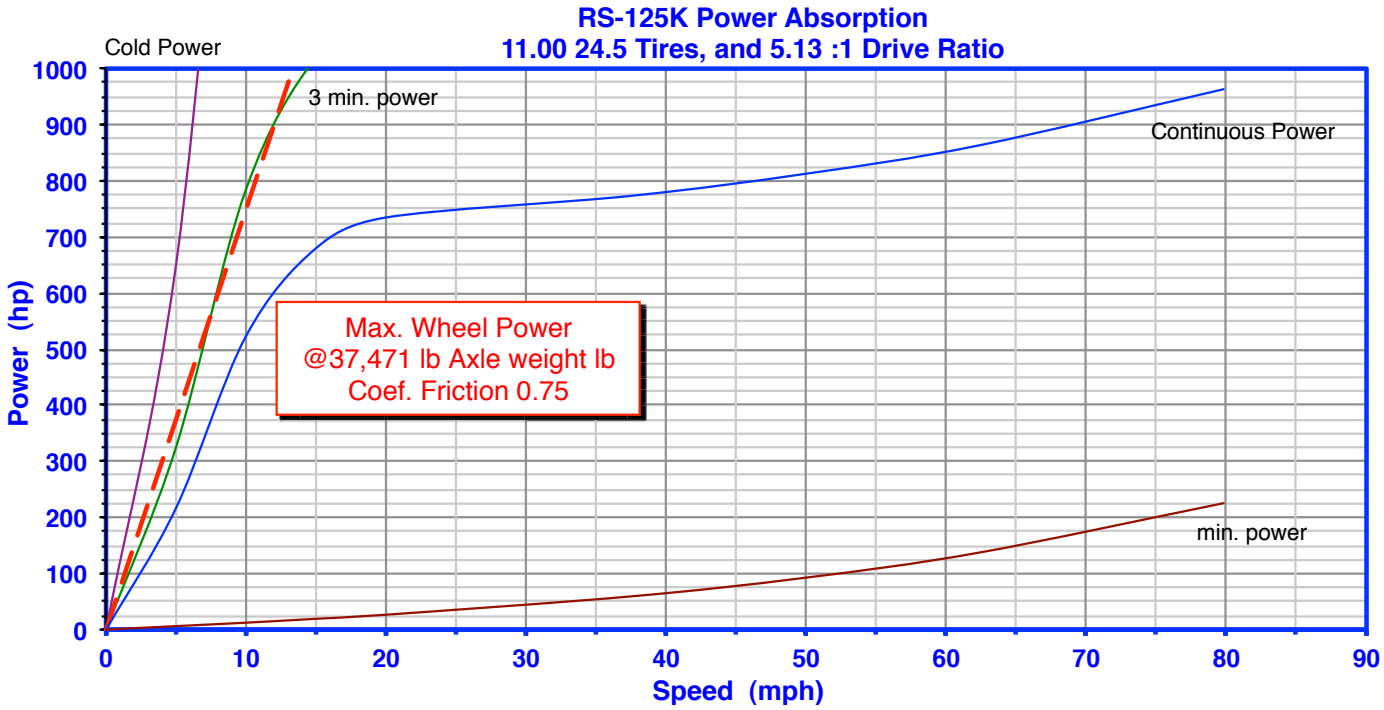
- Instrumented fifth wheel/dolly
- LED amber warning beacon
- Water or concrete ballast system
- CE Certification available as option

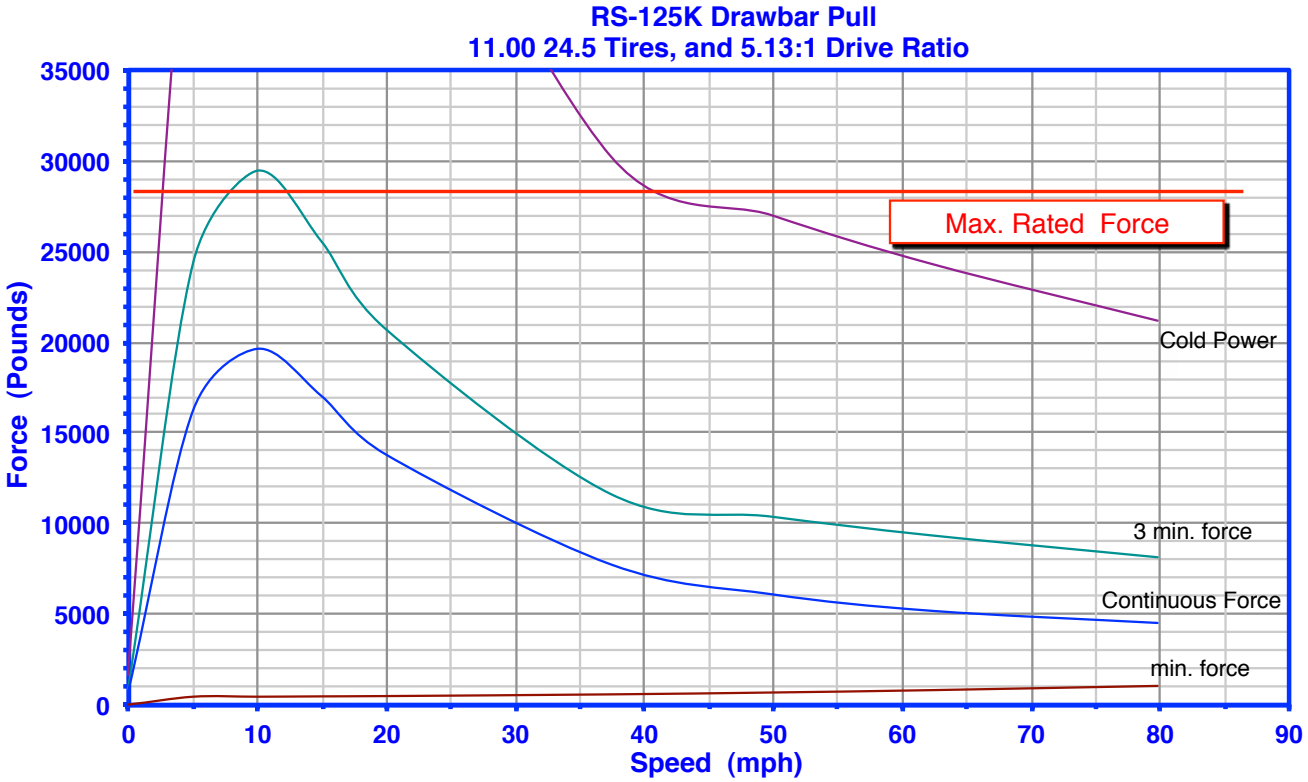
Notes:

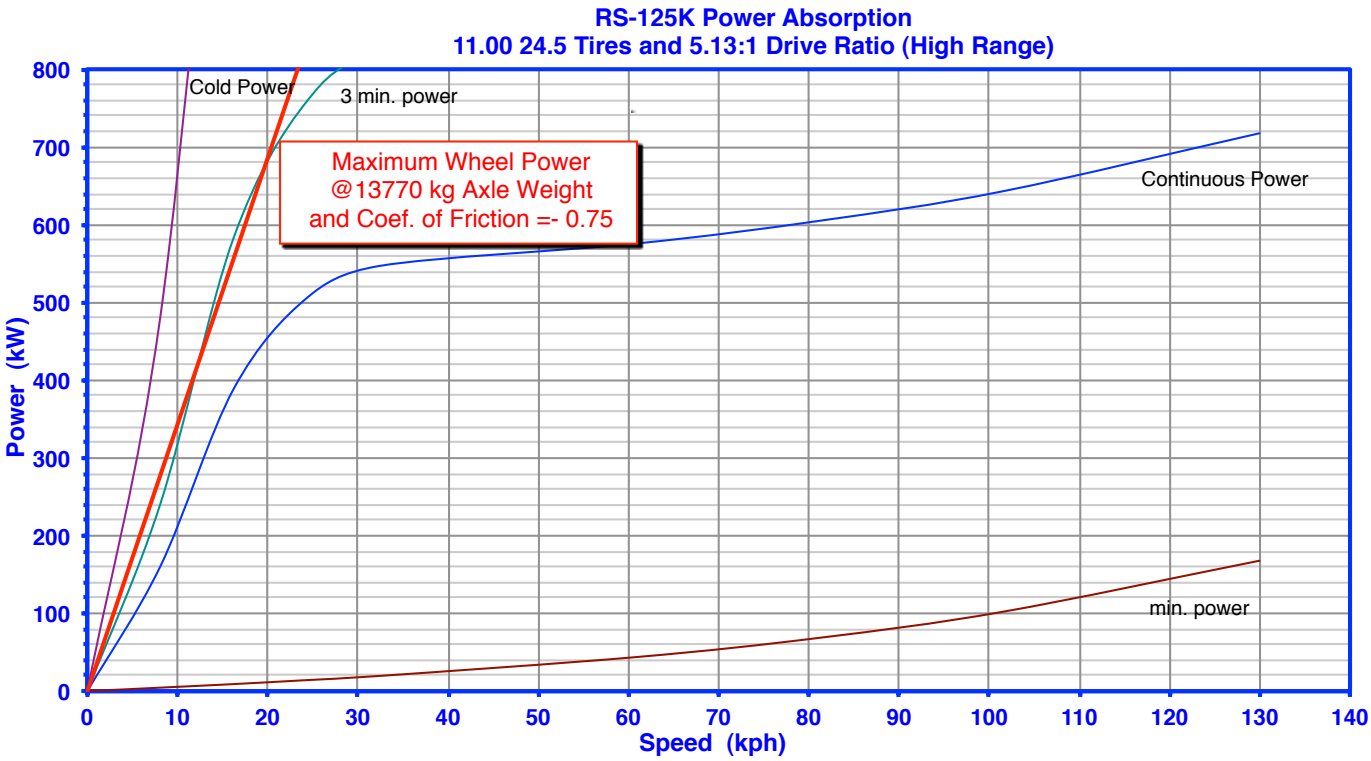
Specifications are subject to change without notice to improve the product without sacrificing quality or performance.

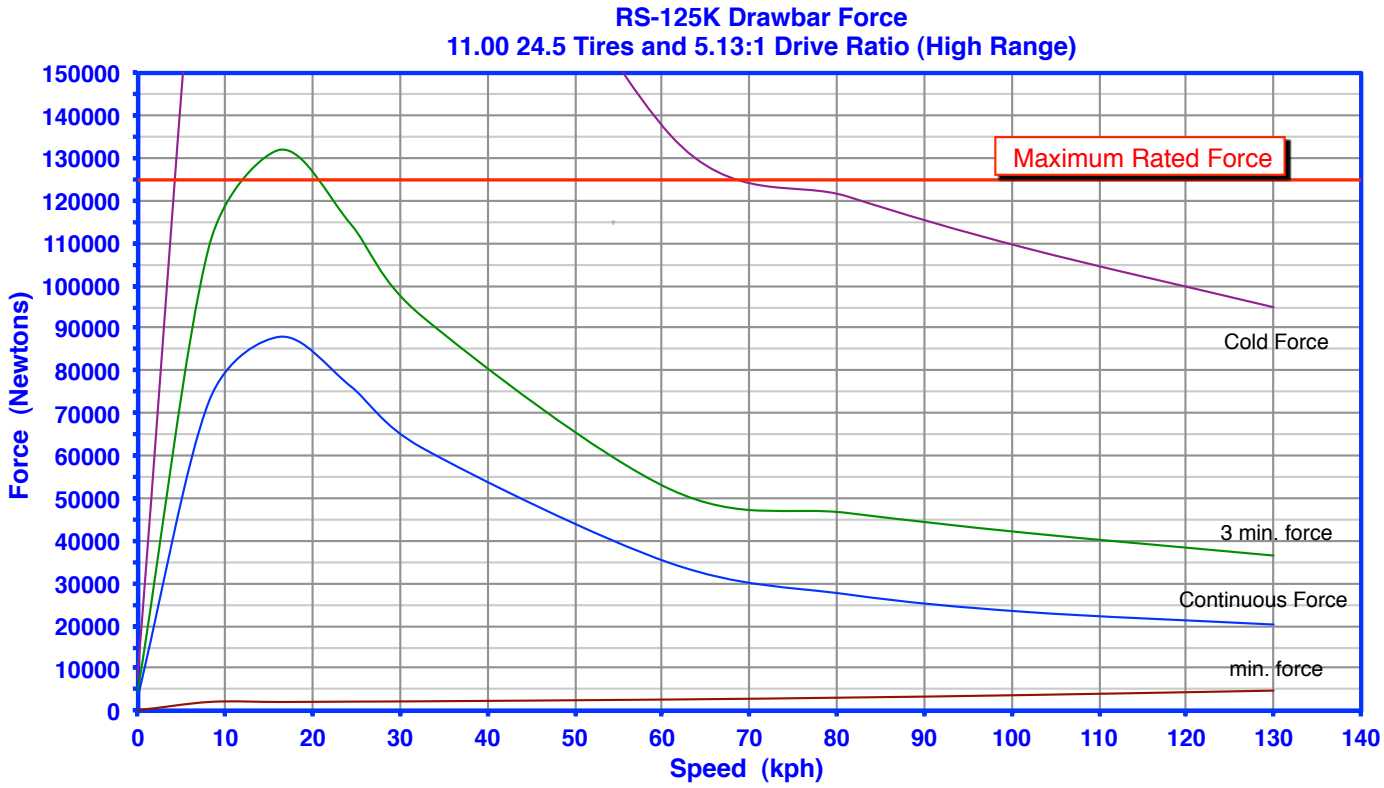
Taylor's RS and RSL series towing dynamometers are intended to be used on a test track. While Taylor stands behind the road worthiness of the trailers, the specialized control features and handling interactions between the towing dynamometer and test vehicle result in our recommendation to use them within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

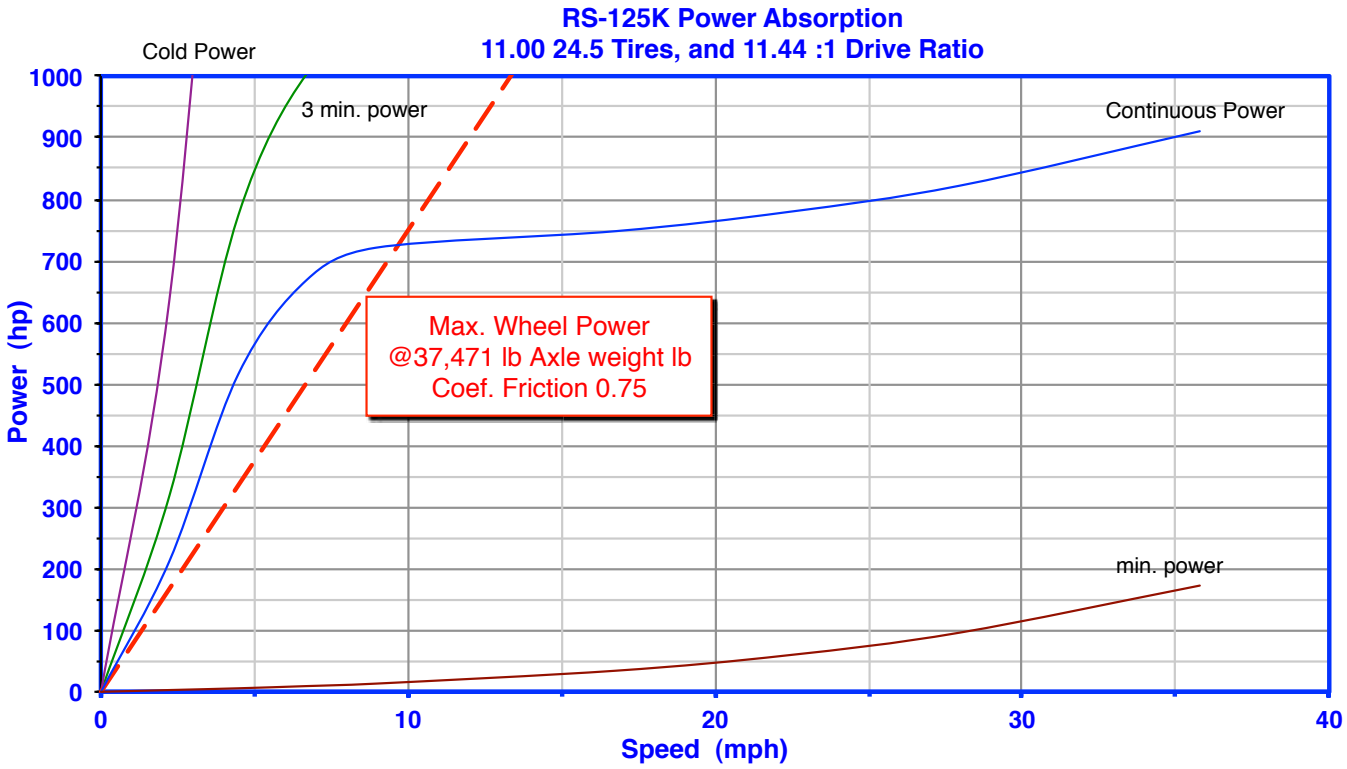
The data acquisition and control system offered here includes a software license that allows the system to operate and collect data. Please be aware that the license initially installed is a temporary license that is only active for 120 days from the date of shipment from Taylor Dynamometer. You must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

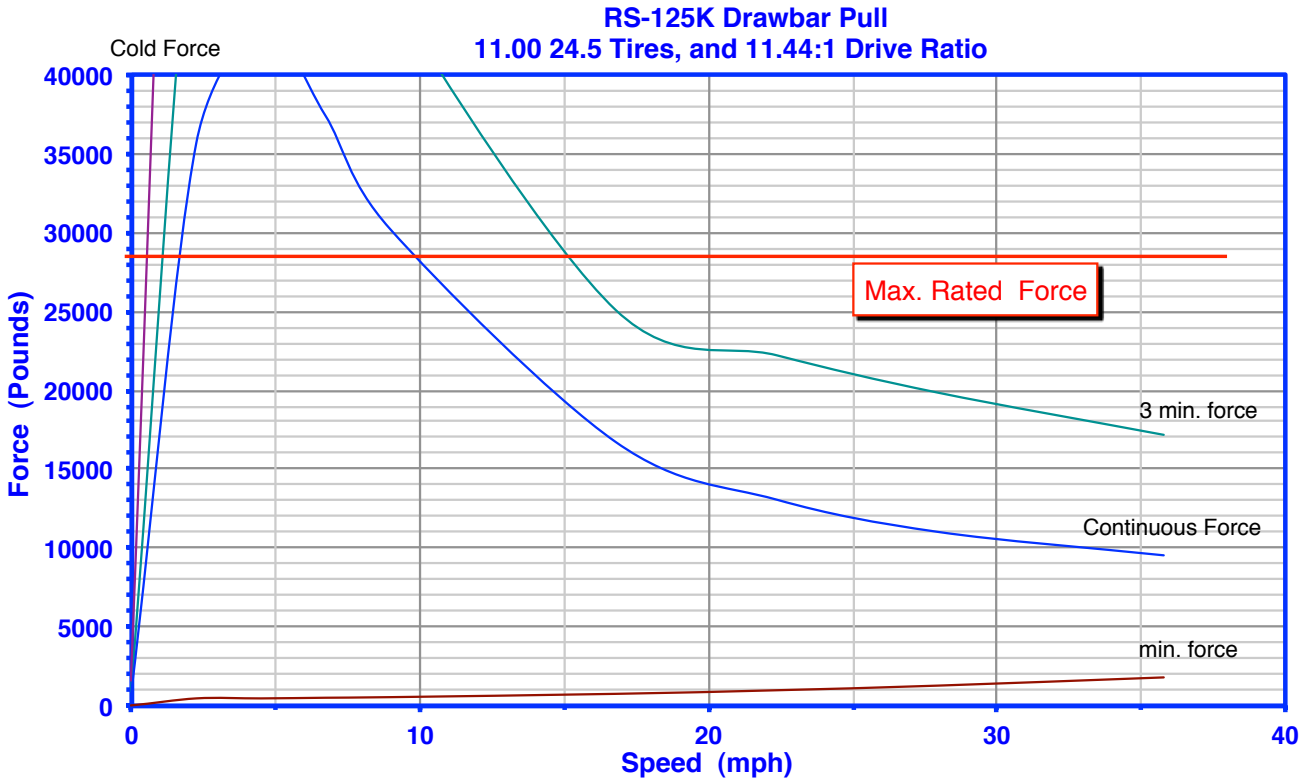

RS-125K Power Absorption
11.00 24.5 Tires, and 5.13 :1 Drive Ratio
Cold Power
3 min. power
Continuous Power
Max. Wheel Power
@37,471 lb Axle weight lb
Coef. Friction 0.75
min. power
Power (hp)
Speed (mph)
0
100
200
300
400
500
600
700
800
900
1000
0
10
20
30
40
50
60
70
80
90

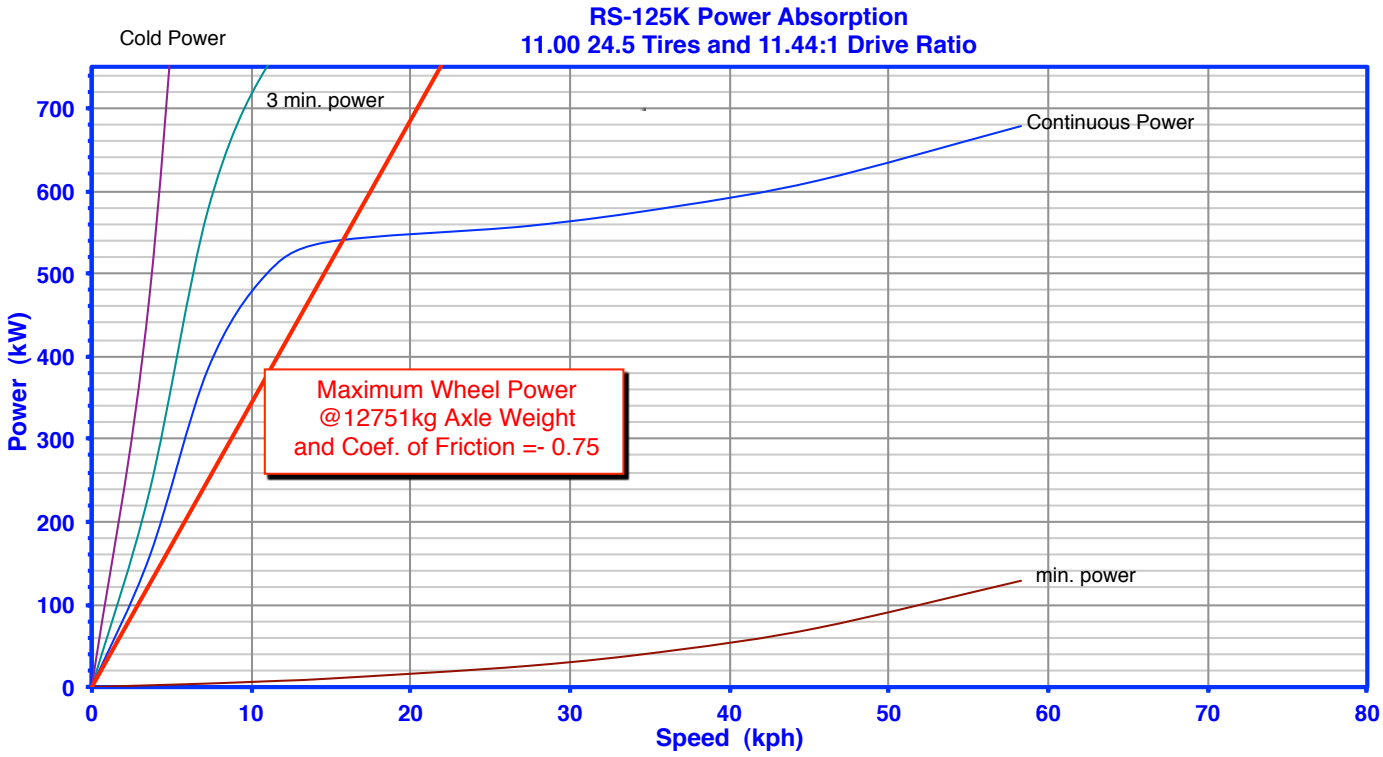

RS-125K Drawbar Pull
11.00 24.5 Tires, and 5.13:1 Drive Ratio
Max. Rated Force
Cold Power
3 min. force
Continuous Force
min. force
Force (Pounds)
Speed (mph)
0
5000
10000
15000
20000
25000
30000
35000
0
10
20
30
40
50
60
70
80
90

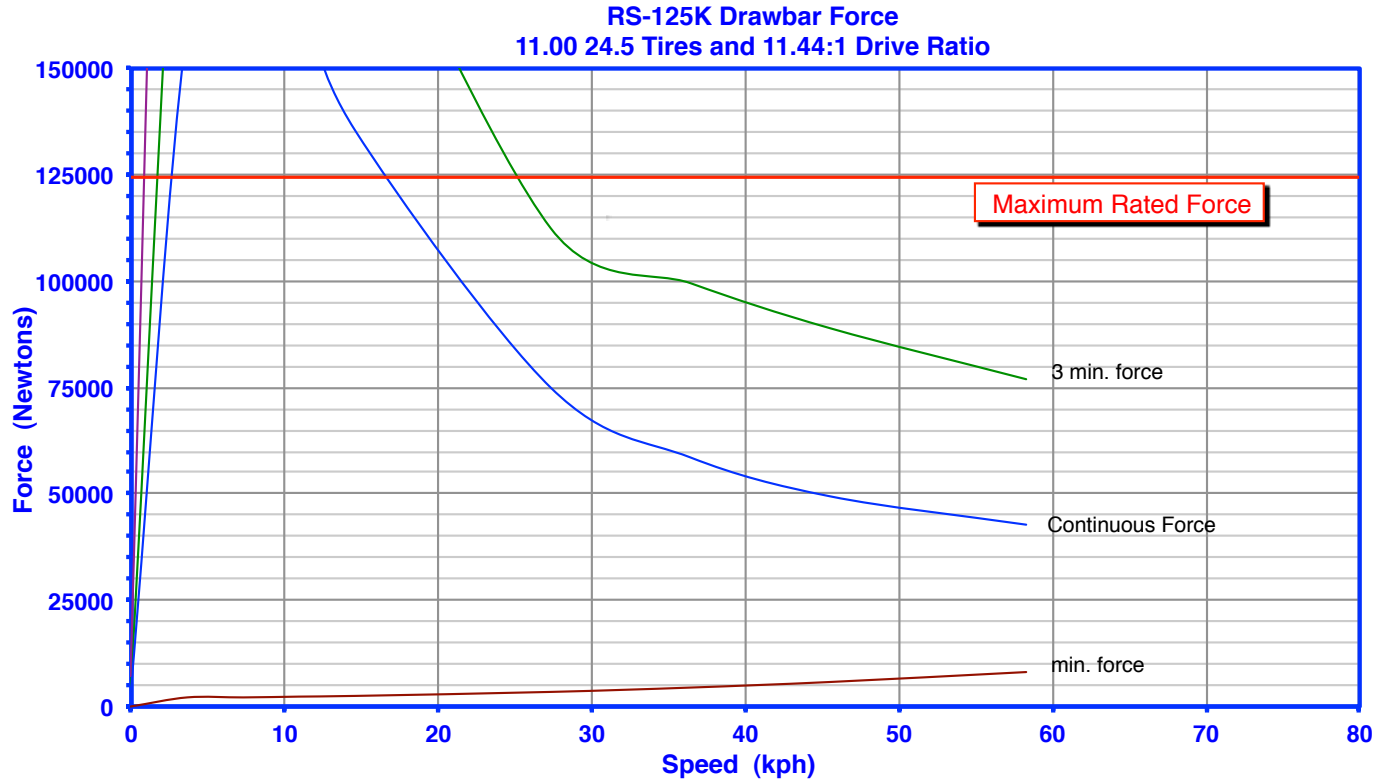

RS-125K Power Absorption
11.00 24.5 Tires and 5.13:1 Drive Ratio (High Range)
Cold Power
3 min. power
Maximum Wheel Power
@13770 kg Axle Weight
and Coef. of Friction =- 0.75
Continuous Power
min. power
Power (kW)
Speed (kph)
0
100
200
300
400
500
600
700
800
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140


RS-125K Drawbar Force
11.00 24.5 Tires and 5.13:1 Drive Ratio (High Range)
Maximum Rated Force
Cold Force
3 min. force
Continuous Force
min. force
Force (Newtons)
Speed (kph)
0
10000
20000
30000
40000
50000
60000
70000
80000
90000
100000
110000
120000
130000
140000
150000
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140


RS-125K Power Absorption
11.00 24.5 Tires, and 11.44 :1 Drive Ratio
Cold Power
3 min. power
Continuous Power
Max. Wheel Power
@37,471 lb Axle weight lb
Coef. Friction 0.75
min. power
Power (hp)
Speed (mph)
0
100
200
300
400
500
600
700
800
900
1000
0
10
20
30
40


RS-125K Drawbar Pull
11.00 24.5 Tires, and 11.44:1 Drive Ratio
Cold Force
Max. Rated Force
3 min. force
Continuous Force
min. force
Force (Pounds)
Speed (mph)
0
5000
10000
15000
20000
25000
30000
35000
40000
0
10
20
30
40





Everything you need to succeed

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