

# Road Force® Elite

The World's Fastest Diagnostic Balancer

**NEW!**

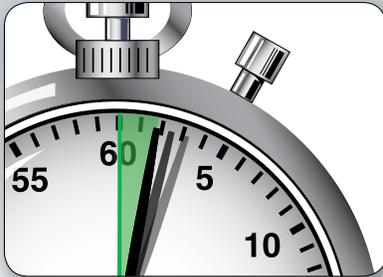


**HUNTER**  
Engineering Company

# Road Force® Elite at a glance

**EXCLUSIVE**

Unmatched Speed! .....



- ✓ Perform a **Road Force® test and balance** faster than any traditional balancer!

**PATENTED**

Vision System .....



- ✓ Eliminate error opportunities
- ✓ More information in less time

**PATENTED**

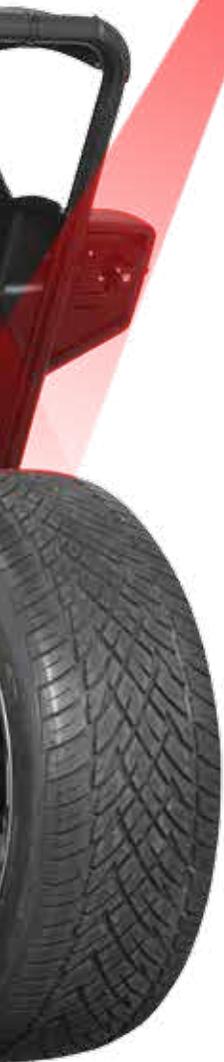
Diagnostic Load Roller



- ✓ Solve vibration problems
- ✓ Identify vehicle pulls
- ✓ Provide "new car ride"



*Shown with options*



**PATENTED**

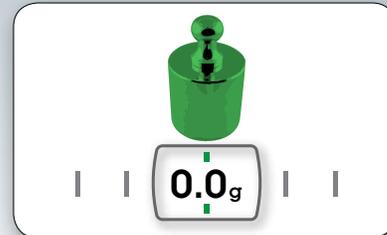
### Enhanced SmartWeight®



- ✓ Even better balance
- ✓ Maximum efficiency
- ✓ More single weight solutions

**PATENTED**

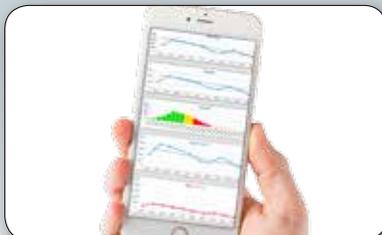
### eCal Auto-Calibration



- ✓ True “self-calibration”
- ✓ No operator input required

**EXCLUSIVE**

### HunterNet®



- ✓ View balancer usage
- ✓ Track weight usage

**EXCLUSIVE**

### On-Demand Videos



- ✓ Simplify training
- ✓ Improve results

**PATENTED**

### CenteringCheck®



- ✓ Ensure proper centering
- ✓ Eliminate setup errors

**STANDARD**

### Touchscreen Interface



- ✓ Intuitive interface
- ✓ Quickly train new technicians

# Road Force® Elite vision technology unlocks more be



Standard Balancer

VS.



Hunter Road Force® Elite

1:15-3:00+ **Floor to floor**

-Plus-

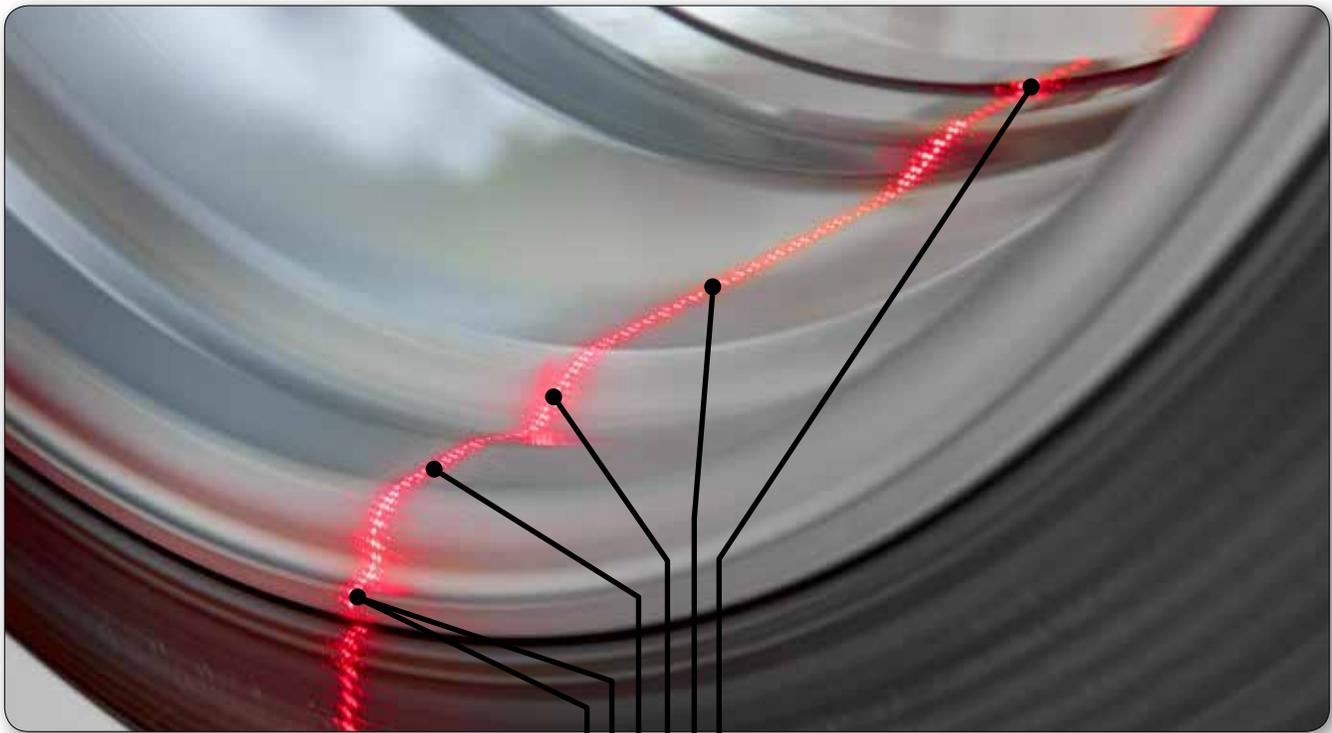
- Wheel dimensions  
*MANUAL*
- Weight mode  
*MANUAL*
- Spoke location
- Rim profile
- SmartWeight® optimized
- Rim runout
- Road force
- Tire pull
- Error-proof
- Forcematch prediction
- Unguided balance

1:10 **Floor to floor**

-Plus-

- Wheel dimensions  
*AUTOMATIC*
- Weight mode  
*AUTOMATIC*
- Spoke location  
*AUTOMATIC*
- Rim profile  
*AUTOMATIC*
- SmartWeight® optimized  
*AUTOMATIC*
- Rim runout  
*AUTOMATIC*
- Road force  
*AUTOMATIC*
- Tire pull  
*AUTOMATIC*
- Error-proof  
*AUTOMATIC*
- Forcematch prediction  
*AUTOMATIC*
- Guided balance

# Benefits in less time!



## Wheel dimensions *AUTOMATIC*



Automatically determines weight plane locations

## Weight mode *AUTOMATIC*



Selects clip or tape weight usage

## Rim runout *AUTOMATIC*



Calculates force-match solution



## Spoke location *AUTOMATIC*

Automatically hides tape weights behind spokes



## SmartWeight® optimized *AUTOMATIC*

Allows more single weight solutions



## Rim profiled *AUTOMATIC*

Creates three-dimensional model of the rim



## Reduce operator error

- ✓ Automatically measures wheel dimensions
- ✓ Automatically selects weight mode
- ✓ Automatically measures rim runout

# Road Force® Elite performs up to 47% faster than previous models



**GSP9712**  
(Generations 1 and 2)  
Up to 18 years old



**GSP9722**  
(Generation 3)  
Up to 10 years old

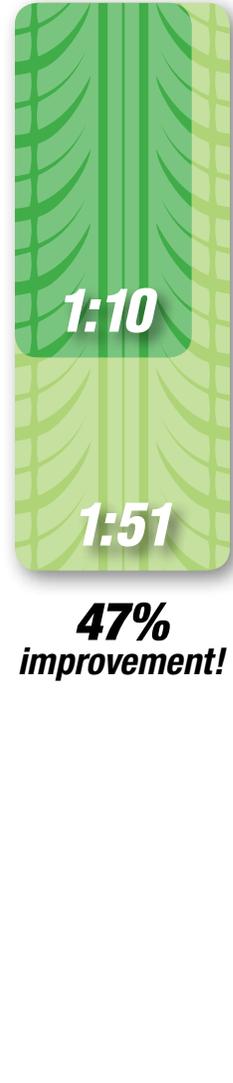
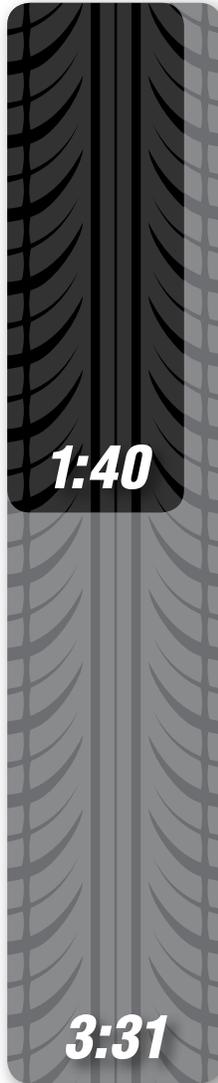


**Road Force Touch**  
(Generation 4)  
Up to 4 years old



**Road Force® Elite**  
(Generation 5)  
Coming April 2016

Balance and measure  
road force



Balance and repair  
road force

**19% improvement!**

**47% improvement!**

**EXCLUSIVE**

# Intuitive interface simplifies operation

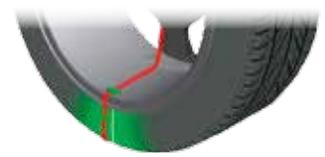
## Balance operation



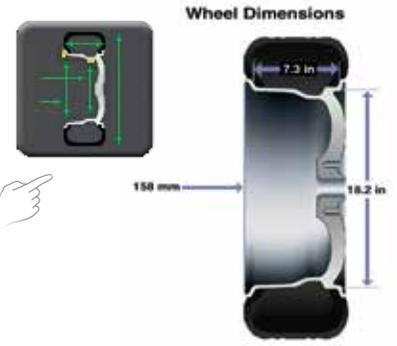
Rim cutaway displays selected weight mode



Switch text language with the push of a button



TruWeight™ provides live navigation through selection and placement of wheel weights

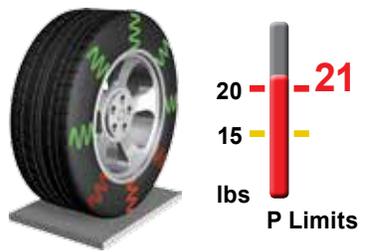


One touch to display rim dimensions

## Road Force operation



Simple graphics illustrate how to optimize assembly



Road Force panel displays assembly value and limits



Live rim and tire conditions shown on-screen



Color-coding allows operator to visualize Road Force variations

# Road Force Measurement<sup>®</sup> solves common vibration

Problem / Solution

Your customer complains about a vibration...



OE technical service bulletins recommend the Road Force Touch<sup>®</sup> balancer as the vibration solution

A simulated road test pinpoints the problem



The Road Force Touch balancer identifies the tire and rim contributions to radial-force vibration problems

How It Works

An unknown force vibrates the spindle



Vibration is transferred from the wheel, through the spindle to the customer

Specialized sensors detect the vibration



The Road Force Touch balancer detects radial forces with sensitive instruments

# problems

## Hold the tire and rotate the rim



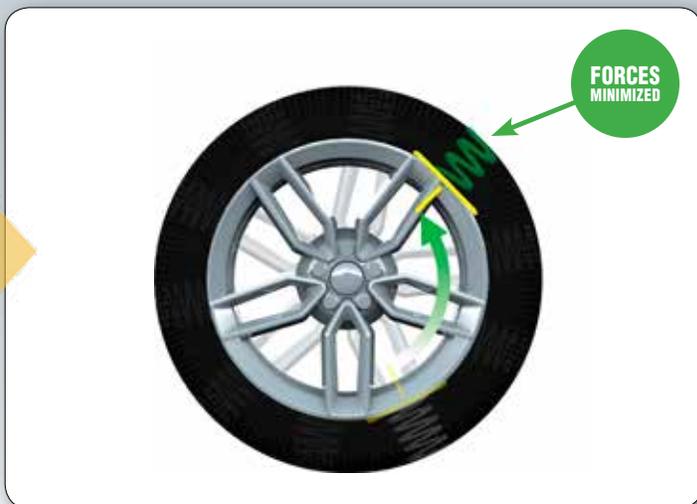
Match-mounting the stiffest point on a tire to the low spot on a rim makes the assembly roll as round as possible

## Your customer leaves with a “new car ride”!



✓ Your customer experiences a smooth ride on the same tires and wheels

## Match-mounting cancels the vibration



The Road Force Touch balancer duplicates tire and rim matching methods used by OE manufacturers

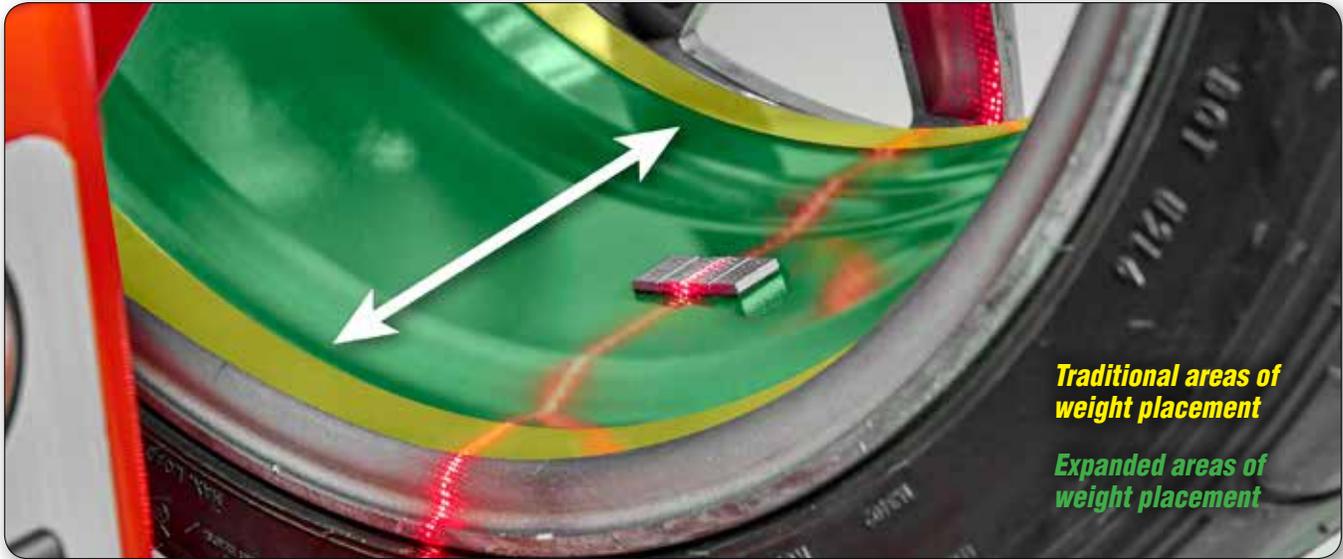
## Your customer leaves with a “new car ride”!



✓ Radial force variation is minimized, ensuring your customer a smooth ride

# Enhanced SmartWeight®

Additional weight locations save time and money



Road Force Elite vision system increases balancer accuracy and single weight solutions.

**4**

*Modern vehicles are **4x** more sensitive to static vibration forces than couple or dynamic forces.*

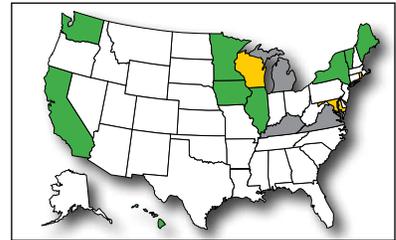
**66**

*Avoid an average of **66 comebacks** per year by using SmartWeight.*

**7,130**

*An average shop saves **7,130 oz** per year with SmartWeight.*

## Lead-Free Initiative Growing



- ▶ 9 states ban lead weights
- ▶ 3 states pending legislation
- ▶ 3 states with governmental actions underway

## Watch Your Savings Grow!



- ✓ See weight and labor savings based on **your** shop's numbers

**PATENTED**

# StraightTrak<sup>®</sup> corrects tire pull

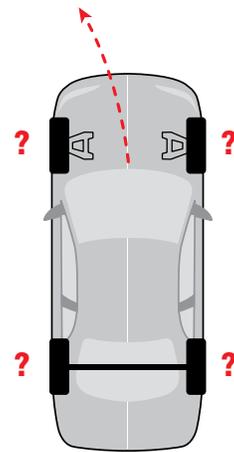
**NEW!**  
Perform lateral force measurement without time penalty

## Tires Just Rotated?

Customer complains about vehicle pulling to the left.

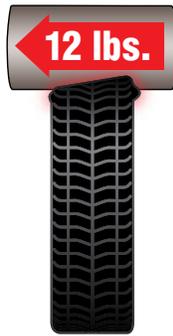


## Mysterious Left Pull

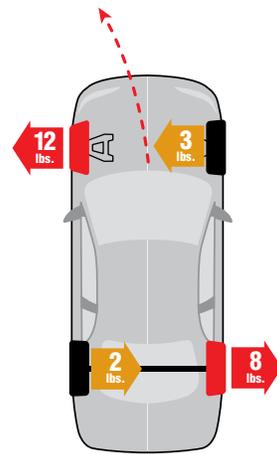


## Measure Lateral Force to Identify Pull

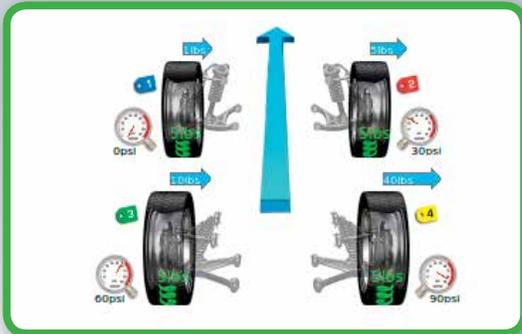
Tire conicity can **ONLY** be measured accurately when the tire is under load.



## Pull Identified

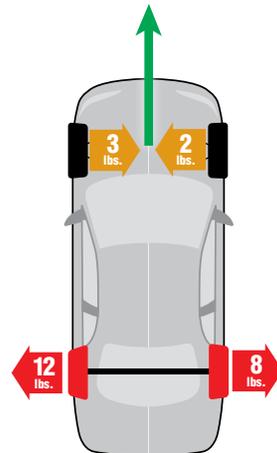


## StraightTrak Delivers the Ultimate in Customer Satisfaction



Hunter suggests optimal wheel placement just like OE manufacturers.

## Pull Eliminated



**COMING SOON!**



- ✓ Allows you to view balancer usage online
- ✓ See trends like Road Force values and wheel types being serviced
- ✓ Track wheel weight usage and savings

## GSP9700.com complimentary listing...

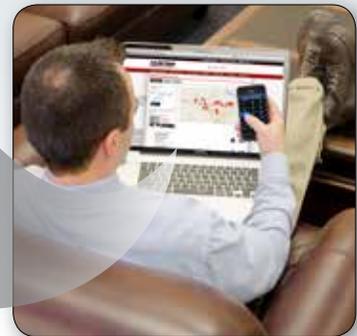
- ✓ Free listing on www.GSP9700.com
- ✓ Tens of thousands of hits each year
- ✓ Customers find you

**Locate a GSP9700 Road Force® Balancer**



## Let us advertise FOR YOU!

**Your Shop Name**  
 Street Address  
 City, State Zip Code  
 Phone number  
 Approx. X miles from your location



**EXCLUSIVE**

## **Concise information for your business!**

### **Vehicle Database with TPMSpecs®**

- ✓ Displays proper mounting adaptors
- ✓ Presents **100+** TPMS reset procedures in a simple comprehensive, user-friendly way.
- ✓ Present TPMS info through any internet-connected shop computer



# TPMSpecs



*One-click TPMS access with a bar code scanner! (Scanner sold separately)*



*TPMS info can be presented through any internet-connected shop computer!*

**EXCLUSIVE**

## **On-screen instruction makes everyone an expert!**

High-definition videos instruct on a variety of balancing and tire changing topics.

- ✓ Covers basic techniques to more advanced procedures
- ✓ Instant access, easy navigation
- ✓ On-site training for your technicians



*Technicians are guided with helpful tips and timesaving procedures.*

# Additional features make balancing faster and easier

**EXCLUSIVE**



**Live 3D graphics**



**Bottom laser and wheel light**

**EXCLUSIVE**



**Most durable shaft in the industry**



**Integrated Inflation Station**

**PATENTED**



**Servo Stop drive control**

Automatically rotates and holds wheel at top-dead-center or bottom-dead-center weight locations.

**EXCLUSIVE**



**TranzSaver™**

Compares tire circumferences as specified by OEs to prevent damage to AWD vehicles.

# Popular equipment upgrades

## Wheel lift

- ✓ Safely service heavy, oversized wheels
- ✓ Precisely center all wheels



## SpeedClamp

- ✓ Clamp wheels automatically
- ✓ Save time and effort
- ✓ Eliminate wingnut



**PATENTED**

## HammerHead® top-dead-center laser

- ✓ Greater weight placement accuracy to avoid mistakes
- ✓ More single-spin balances improve productivity
- ✓ Overhead fluorescent light illuminates work area



**Incorrect**



**Correct**

## Printer kit with storage shelf\*

- ✓ Print Road Force Measurement® test results
- ✓ Sell and perform TPMS work properly and efficiently
- ✓ Win more approvals with clear and informative printouts



\* Printer model may vary.

# Specifications



RFE33<sup>™</sup> shown

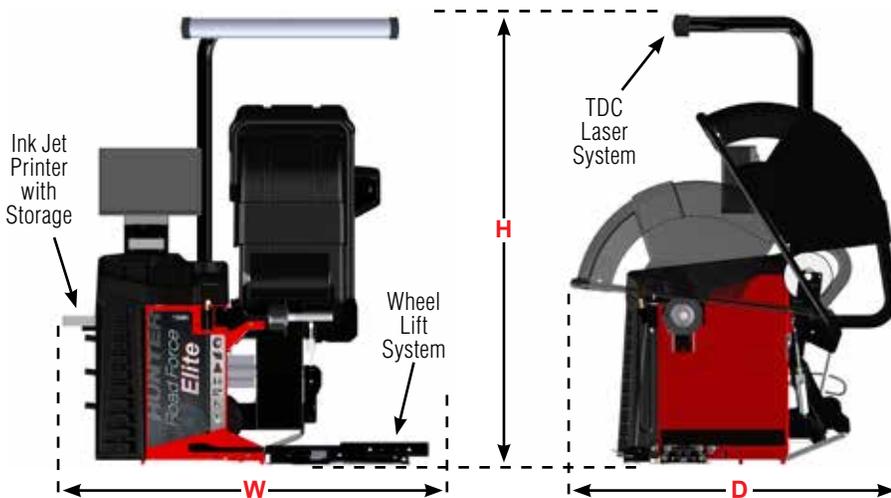
<b>Power Requirements</b>	196-253V, 10 amp, 50/60 Hz, 1 ph (Power cable includes: NEMA 20 amp plug, L6-20P)
<b>Air Supply Requirements</b>	100-175 psi (7-12 bar)
<b>Roller Force</b>	Variable up to 1,250 lbs (567 kg)
<b>Capacity</b>	
<b>Rim Width</b>	1.5 in to 20.5 in (38 mm to 521 mm)
<b>Rim Diameter</b>	10 in to 30 in (254 mm to 762 mm)*
<b>ALU</b>	14 in to 44 in (356 mm to 1118 mm)*
<b>Max. Tire Diameter</b>	40 in (1016 mm)
<b>Max. Tire Width</b>	20 in (508 mm)
<b>Max. Tire Weight</b>	175 lbs (79 kg)
<b>Radial and Lateral Runout Accuracy</b>	0.002 in (0.051 mm)
<b>Imbalance Resolution</b>	± 0.01 oz (0.28 g)
<b>Placement Accuracy</b>	512 positions, ± 0.35°
<b>Balancing Speed</b>	300 rpm
<b>Motor</b>	Programmable drive system and DC motor

\* Extreme wheel sizes may require manual data entry.

# Models\*\*

	RFE33	RFE32	RFE31	RFE30	RFE23	RFE22	RFE21	RFE20	RFE13	RFE12	RFE11	RFE10	RFE03	RFE02	RFE01	RFE00
<b>Wheel Lift System</b>	✓	✓	✓	✓					✓	✓	✓	✓				
<b>AutoClamp<sup>®</sup> System</b>	✓	✓	✓	✓	✓	✓	✓	✓								
<b>TDC Laser System</b>	✓	✓			✓	✓			✓	✓			✓	✓		
<b>Ink Jet Print w/Storage</b>	✓		✓		✓		✓		✓		✓		✓		✓	
<b>Width (W)</b>	72 in 1829 mm	64 in 1626 mm	72 in 1829 mm	64 in 1626 mm	65 in 1651 mm	57 in 1448 mm	65 in 1651 mm	57 in 1448 mm	73 in 1854 mm	64 in 1626 mm	72 in 1829 mm	64 in 1626 mm	65 in 1651 mm	57 in 1448 mm	65 in 1651 mm	57 in 1448 mm
<b>Height (H)</b>	89 in 2261 mm	89 in 2261 mm	70 in 1778 mm	70 in 1778 mm	89 in 2261 mm	89 in 2261 mm	70 in 1778 mm	70 in 1778 mm	89 in 2261 mm	89 in 2261 mm	70 in 1778 mm	70 in 1778 mm	89 in 2261 mm	89 in 2261 mm	70 in 1778 mm	70 in 1778 mm
<b>Depth (D)</b>	63 in 1600 mm															
<b>Weight</b>	974 lb 442 kg	921 lb 418 kg	924 lb 419 kg	871 lb 395 kg	842 lb 382 kg	789 lb 358 kg	792 lb 359 kg	739 lb 335 kg	899 lb 408 kg	846 lb 384 kg	849 lb 385 kg	796 lb 361 kg	844 lb 383 kg	791 lb 359 kg	794 lb 360 kg	741 lb 336 kg

\*\* Road Force Touch<sup>®</sup> model numbers are trademarks of Hunter Engineering Company.



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Because of continuing technological advancements, specifications, models and options are subject to change without notice.



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