



# BFH 1000

Wheel Balancer



**Total Ride Performance System**

# BFH 1000 Wheel Balancer



## Proven Performance and Durability

The BFH 1000 is the most advanced diagnostic wheel balancing system in the industry. Designed for power users and high-volume shops, the BFH 1000 boasts the fastest floor-to-floor time in the industry, and also provides revenue-generating advanced diagnostics, such as wheel weight management functionality, behind-spoke weight placement and wheel-to-tire matching.

**John Bean's BFH Series Wheel Balancers will enable you to:**

- ★ Perform lightning-fast balances in a single spin – every time
- ★ Handle virtually any aftermarket/high-performance wheel
- ★ Improve safety by identifying customers tread depth and drivability issues



## ★ Make More Money!

## Advanced Diagnostics

Weight Miser Savings

Clip weight price: 2.75  
Stick weight price: 2.75

	Cumulated		Max. Savings	
	Value	Rate	Value	Rate
Total weight saving:	0.07 lb.	11.0%	0.01 kg	23.1%
Total cost saving:	1.87	16.3%	0.30	23.1%
Number of spins:	4	2.8%	1	0.0%



### WeightMiser™

- ★ Recommends lower weight amounts whenever possible to drive cost reduction
- ★ Shows productivity benefits over time in dollars saved and also the amount of weight savings as a percentage of total weight used

Weight Image Store 11:01 11-07-2007

324	
0.25	
0.50	
0.75	
1.00	
1.25	
1.50	
1.75	
2.00	
2.25	
2.50	
2.75	
3.00	
3.25	
3.50	
3.75	
4.00	



### Weight Wizard\*

- ★ Tracks weights used over time by color type and weight
- ★ Records weights used on every job automatically
- ★ Tailors weight purchases to save money by buying only what you need

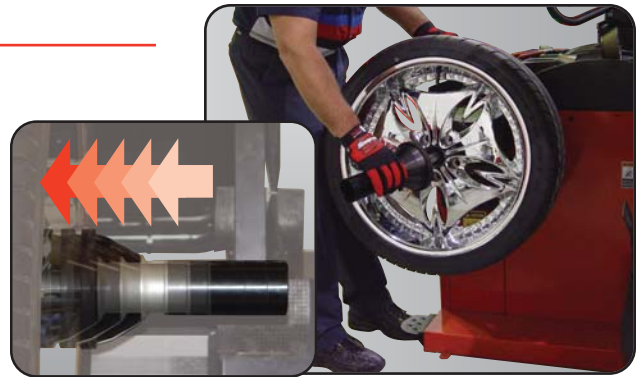


# BFH 1000 Wheel Balancer

## BFH 1000 - How Does It Work?

### Mount Wheel with Power Clamp

- ★ Select proper mounting cone for the wheel
- ★ Place wheel on main shaft
- ★ Depress locking foot pedal
- ★ Center and clamp the wheel automatically with consistent clamping pressure using the Power Clamp for unmatched repeatability
- ★ Lower the wheel guard



### Collect Measurements in Six Seconds!

- ★ Virtual Plane Imaging (VPI) measurements and laser imaging captures the profile of the wheel and compares the information to specifications
- ★ In six seconds, the color display shows the location of any imbalances and identifies the optimal tape or clip-on weight location



### Radial Runout

- ★ Determine whether the wheel is in or out of tolerance

### Rim-Only Runout

- ★ Perform runout at the bead seat for diagnosis of rim-only problems



### Automatic Spoke I.D.

- ★ Spokes are counted so that weights can be placed behind spokes as needed

### Tread Depth Laser Detection

- ★ A Pass/Fail graphic displays whether tread depth is above or below preset height

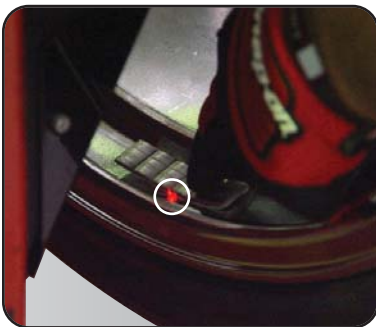


# BFH 1000 Wheel Balancer



## Install Weights

- ★ Save money by choosing between all available tape weight and clip-on weight options
- ★ See the optimal tape weight placement indicated by a laser dot (pictured below) as the default option
- ★ Review the optimal clip-on weight type and location on the screen
- ★ Select the lowest overall weight combination available to balance the wheel while keeping costs to a minimum, or find the optimal weight placement combination available for aesthetic purposes
- ★ Track the weights used for every wheel in Weight Wizard (see information on Weight Wizard, Page 2)



Tape weight location shown with laser dot



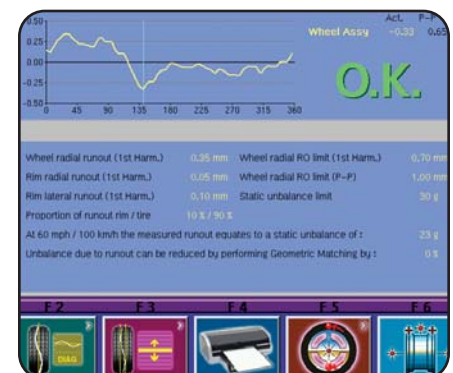
Clip weight only



Tape weight and clip weight combination (tape weight location circled in yellow)

## Determine if Advanced Diagnostics Are Needed

- ★ Tire-to-Rim matching recommendations help pinpoint if further diagnostics are needed
- ★ The BFH 1000 identifies the optimal position of the tire on the rim with the touch of a button



# BFH 1000 Wheel Balancer



## The Benefits of Opti-Line

- ★ Helps to improve ride performance and pull problems that cannot be fixed by wheel alignment alone
- ★ Eliminates multiple tire rotations to reposition tires & reduces times required for road tests significantly
- ★ Handles any kind of wheel, including wheels with directional tires
- ★ Addresses pull- or vibration-related issues by suggesting the optimal location for each wheel in the set based on tire conicity (pulls) or radial runout (vibration)
- ★ Enhances straight-ahead steering stability of the vehicle



## Available Configurations



**EEWB519B**  
Base Model BFH 1000



**EEWB519BW**  
Base Model BFH 1000  
Pneumatic Wheel Lift

**EEWB519BP**  
Base Model BFH 1000  
Printer Assembly

**EEWB519SP**  
Base Model BFH 1000  
Printer Assembly  
with Opti-Line



**EEWB519BPW**  
Base Model BFH 1000  
Printer Assembly  
Pneumatic Wheel Lift

**EEWB519S**  
Base Model BFH 1000  
with Opti-Line

**EEWB519SW**  
Base Model BFH 1000  
Pneumatic Wheel Lift  
with Opti-Line

**EEWB519SPW**  
Base Model BFH 1000  
Printer Assembly  
Pneumatic Wheel Lift  
with Opti-Line





# BFH 1000 Wheel Balancer

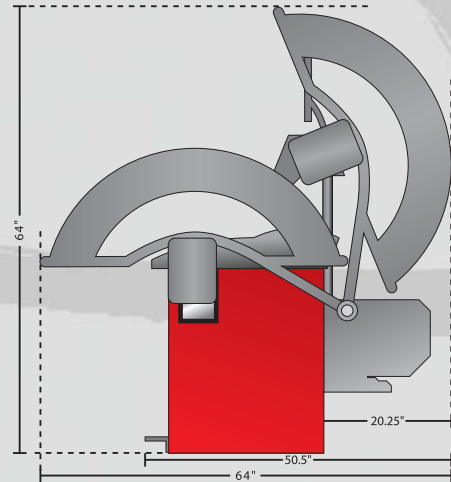
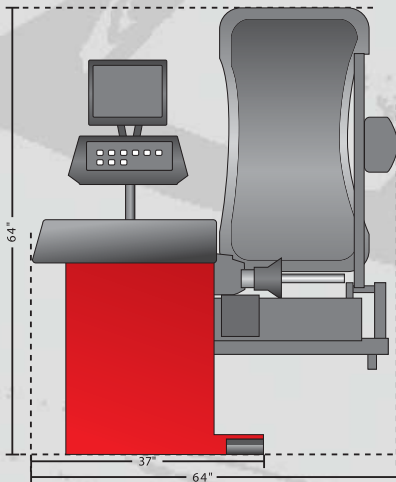
Model EEWB51SP



## SPECIFICATIONS

Power supply:	230 Volts, single phase / 50 / 60 Hz
Range of diameter centering cone:	4 cones: 1.7" - 5.2"
Length of shaft:	7.5" (190 mm)
Diameter of shaft:	1.57" (40 mm)
Measuring speed:	200 rpm
Balancing accuracy:	0.05 oz (1g)
Scanner accuracy:	0.0039" (0.1 mm)
Rim width (dynamic balancing):	3 - 20"
Rim diameter:	8 - 30"
Max. wheel width:	21" (530 mm)
Max. wheel diameter:	44" (1117 mm)
Max. wheel weight:	154 lbs. (70 kg)
Kind of data entry for DISTANCE:	Automatic, non-touch
Kind of data entry for DIAMETER:	Automatic, non-touch
Kind of data entry for WIDTH:	Automatic, non-touch
Dimensions H x W x D (Machine only wheel hood open):	64" x 64" x 64"
Weight:	550 lbs.

## SPACE REQUIREMENTS



### Snap-on Equipment

Snap-on Equipment / 309 Exchange Avenue / Conway, Arkansas 72032 U.S.A.  
Fax: 501-450-2085 / Toll Free: 1-800-362-4618 / Canada: 1-800-362-4608  
[www.SnaponEquipment.com](http://www.SnaponEquipment.com) / [www.JohnBean.com](http://www.JohnBean.com)  
International: 501-450-1568