

**PREMIUM BALANCERS**

**geodyna®**  
WHEEL BALANCERS

# **EXCELLENCE IN WHEEL BALANCERS**



**geodyna® 9000p**  
**geodyna® 8250-2p**  
**geodyna® 8200-2p**  
**geodyna® 7850-2p**  
**geodyna® 7800-2p**

**HOFMANN®** 

**geodyna®**  
**9000p**



The **geodyna® 9000p** develops optima technology into a complete rim and tyre diagnostic tool that identifies problems which are difficult for the operator to spot with the naked eye. Its 5 hi-definition cameras provide a detailed analysis of the wheel as well as highlighting faults linked to the vehicle's set-up or shocks taken by the wheels.

The 5 cameras automatically measure the dimensions of the rim, define the type of weights to use and the position where to apply them. They also automatically provide a measurement of the wheel and rim run-out and instructions on how to carry out match mounting: a procedure for correcting shape-based vibrations by optimising the roundness of the wheel.

**geodyna® 9000p** is designed for specialists who want to solve all kinds of problem.

**geodyna®**  
**8250-2p**  
**8200-2p**



The **geodyna® 8250-2p / 8200-2p** is a high productivity wheel balancer that provides an accurate analysis of shape-based vibrations caused by imperfect wheel roundness too. This is carried out in the same time cycle as the wheel balancing.

Correcting the main causes of vibration and high throughput make the **geodyna® 8250-2p / 8200-2p** the ideal choice for tyre shops and OEM dealers seeking to combine productivity and customer satisfaction.

The range offers two variants: the geodyna® 8200-2p with no lifting device and the geodyna® 8250-2p with a built-in lifting device.

**geodyna®**  
**7850-2p**  
**7800-2p**



In 2014, the **geodyna® 7800-2p/7850-2p** family was released that consolidates optima technology in a high productivity wheel balancer with no-contact data acquisition.

Compared to the 7800-2p, the geodyna® 7850-2p features an innovative wheel lifting device that allows the wheel to be lifted rapidly and automatically. The advanced technology used to automatically identify the rim dimensions and balancing mode allow these models to offer an extremely rapid and user-friendly solution to all common unbalance problems.

These machines are designed for showrooms and tyre shops that operate with large volumes and are looking for rapid, user-friendly, high precision wheel balancing.

**AUTOMATIC WHEEL ACQUISITION**

The technology developed by Hofmann, has revolutionized wheel balancers. Since 2004 Automatic Wheel Acquisition has been continuously developed, now it's a robust technology to acquire rim dimensions in any type of shop environments.



**Automatic balancing mode**

Automatically recognize the wheel type, alloy or steel and its shape. Automatically selects the appropriate balancing mode for clip on or tape style weights



**Automatic Wheel Dimensions**

Automatically defines the plane and the angular position in which to apply the weights. This assures high accuracy and reduces the risk of operator error



**Automatic spoke detection**

Automatically detects the number and position of the spokes which allows the technician to easily hide weights behind the spokes to keep weights from being seen

## Automatic wheel acquisition

Automatic wheel dimensions measurement, balancing mode selection and spoke detection:

- Simplifies operation
- Minimizes operator errors
- Shortens the cycle time



## Power Clamp™

Patented electromechanical locking system that clamps the wheel accurately with a constant force:

- Fast clamping with all wheel sizes
- Reduces the risk of chasing weight



## easyWEIGHT™

Pinpoint laser light identifies exact adhesive weight placement location:

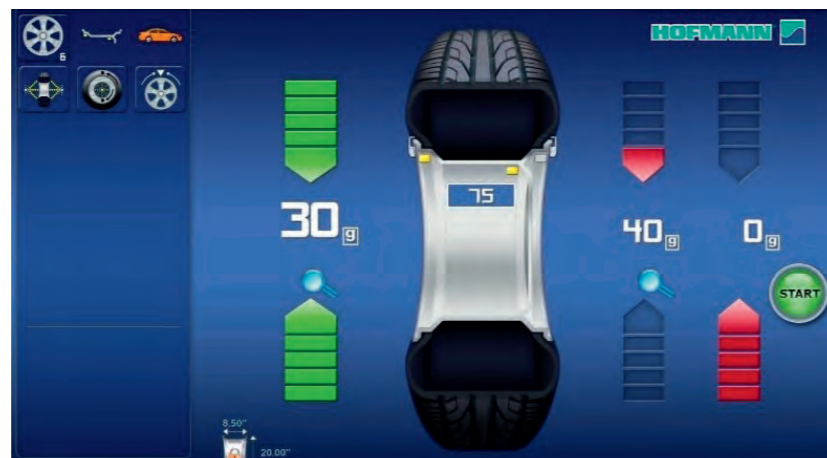
- 30% time savings for tape weight placement
- Virtually eliminates weight positioning errors



## Platinum user interface

Touchscreen graphical user interface working on an easy to see wide screen monitor:

- Intuitive and easy to learn for technicians
- Shortens the cycle time



Features described above are available in all Premium models.

## VPM Technology

Patented measurement system and the Virtual Plane Measurement technology assures accuracy, robustness and repeatability:

- Exact balancing at the first run
- Long lasting calibration
- Ensures a precise balance the first time



## geodata®

The unique and patented Hofmann® gauge arm. Comfortable weight application at 12 o'clock; automatic stop of the arm when in position:

- Perfectly suited for placement of large lead free stick on weights



## Stop in position

Touch the screen to automatically rotate the wheel to exact weight application position:

- Optimize the technician's routine
- Shorten the cycle time



## Networking

Connects the balancer to a PC server with cable:

- Easily archive and print balancing results
- Asanetwork compatible\*

\* need additional components



# geodyna<sup>®</sup> 9000p

## THE DIAGNOSTIC WHEEL BALANCER

- Complete analysis of tyre and rim
- Fast recognition of possible wheel damages
- Locate and diagnose shape vibrations
- Correction of tyre pull

### geodata<sup>®</sup>

Comfortable weight application as practical alternative to easyWEIGHT™

### VPM Technology

Assures the most accurate balancing results



### Bare rim measurement

Bare rim is automatically recognized and measured with high precision and accuracy.

High quality measurement of bead seat run-out.

- Effective match-mounting
- Maximizing shape vibrations correction
- Driving comfort



### Platinum User Interface

Wide 19" touchscreen color monitor



### 3D Imaging Technology

5 high-resolution laser cameras scan the complete rim and tyre profile, 3D imaging technology achieves Automatic Wheel Acquisition and helps the operator in his job, pinpointing potential wheel issues.

- The most advanced image technology for commercial balancers
- Measurement and fixing of shape vibrations
- Tyre pull correction

### Telescopic wheel guard

Unique and patented Hofmann® wheel guard design.

- Wheel guard's handle is always at an ergonomic height for technicians
- Reduce the balancer footprint and distance from the rear wall

### Power Clamp™

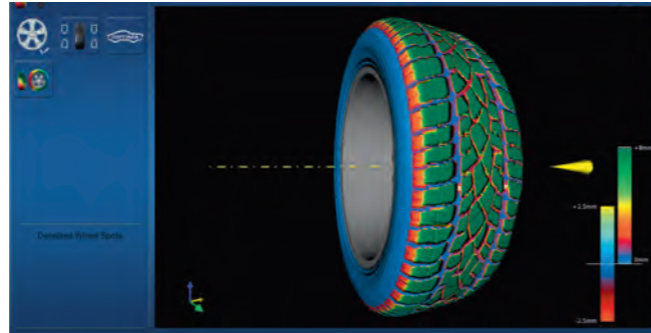
Clamps the wheel accurately with a constant force

## DIAGNOSTIC FEATURES

### Tyre Sidewall and Tread Analysis™ (STA)

Scratches, cuts, bulges, blisters, flat spots, uneven wear-out and other anomalies of the tyre which could possibly lead to safety issues are detected, both on sidewall and tread:

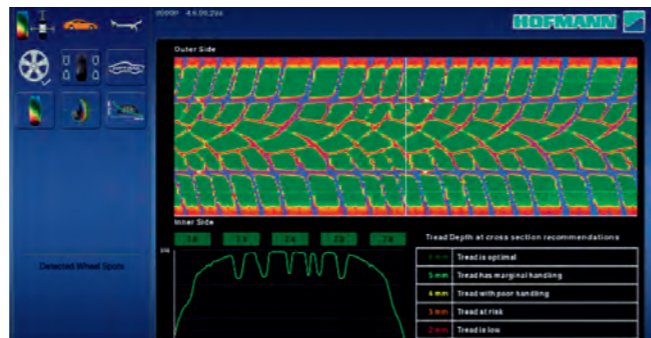
- Show problems that might not be visible to the technician
- Helps operators find and fix issues fast



### Tread Depth Analysis™ (TDA)

Automatically measures the tread depth in five sections of the tyre and identifies potential trouble spots that a technician might otherwise miss:

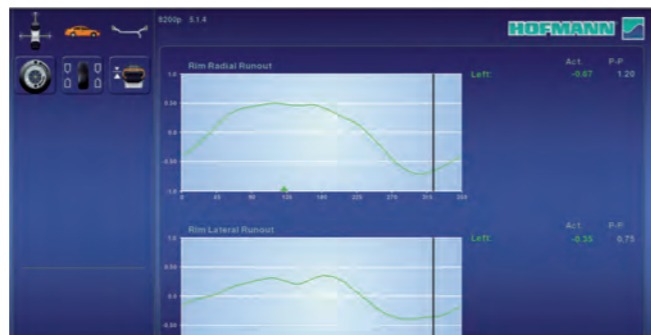
- Improves driver safety
- Prevent premature tyre wear-out



### Match-mounting

3D image technology performs an accurate radial run-out measurement of the wheel assembly and rim. The wheel assembly roundness is maximized by the match-mounting procedure:

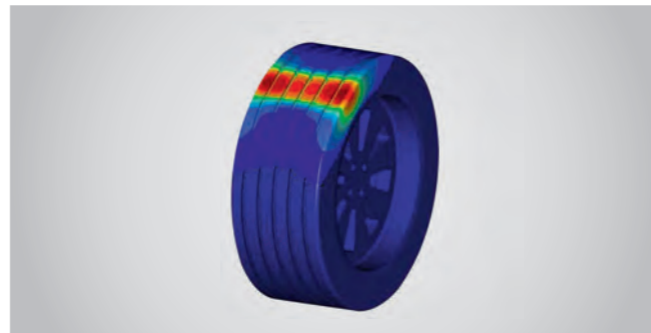
- Minimization of shape vibrations
- No customer comebacks



### Run-Out Force Vectoring™ \*

Non-contact virtual load system capable of solving vibration issues caused by unbalance and non-uniformity in the tyre and rim providing the calculated wheel assembly radial force variation values:

- No load applied to the balancer shaft
- Improved match-mounting, no customer comebacks



### optiLine™ \*

Identify the best possible position for each wheel on the vehicle so that the tyre pull effect is minimized or eliminated:

- No customer comebacks
- Higher workshop profitability



## 3D IMAGING TECHNOLOGY



### Central camera

- Tyre tread
- Radial run-out
- Tyre pull



### Outer cameras

- Tyre sidewall
- Rim edge
- Radial and lateral run-out
- Rim width

geodyna®

# 8250-2p / 8200-2p

## THE ULTIMATE SOLUTION FOR VIBRATION FIXING

- Shape vibrations measurement and correction
- High volume and easy to use balancer
- No customer comebacks



### Functional working space

Everything's right around the corner. Tools, weights and accessories are perfectly stored:

- Clean and organized working space
- Minimizes the floor to floor circle time



### Wheel Lift

Automatically lift the wheel to the correct height for centring and clamping. Synchronized with Power Clamp™:

- Save time and effort
- Improve wheel centring
- Easy to use



### Platinum User Interface

Wide 19" touchscreen color monitor

### Telescopic wheel guard

Ergonomic and small footprint



### Shape vibration fixing

Run-out measurement automatically performed by high accuracy laser gauge during the balancing cycle. If run-out is out of spec the balancer then automatically performs rim run-out measurement. Shape vibrations correction by one step match mounting procedure:

- Run-out check on every tyre without additional time required
- No customer comebacks

### Power Clamp™

Clamps the wheel accurately with a constant force

### Wheel Profiling

High-resolution laser scanner and Smart Sonar™ automatically measures wheels

### VPM Technology

Assures the most accurate balancing results

geodyna®

# 7850-2p / 7800-2p

**BALANCING A WHEEL: NEVER BEEN SO EASY**

- Clamp the wheel and go
- Wheel profiling automatically enters dimensions
- High volume easy to use balancer

## Functional working space

Provides a convenient place for tools, weights and accessories

## VPM Technology

Assures the most accurate balancing results



## Wheel Lift\*

Automatically lift the wheel to the correct height for centring and clamping. Sincronized with Power Clamp™:

- Save time and effort
- Improve wheel centring
- Easy to use

\*geodyna 7850-2P with Wheel lift included



## Platinum User Interface

Wide 19" touchscreen color monitor

## Telescopic wheel guard

Ergonomic and small footprint



## Wheel Profiling

High-resolution laser scanner and Smart Sonar™ Automatically enters Wheel Dimensions. High resolution laser scanner, automatic non-contact outline of the inner of the rim. Smart Sonar™, automatic, non-contact rim width acquisition. The Automatic Wheel Acquisition provides input of rim diameter and offset, number and position of spokes, chooses balancing mode, weight types and weight positions without any operator input:

- Ensure proper dimension entry
- Minimize operator errors
- Shortens cycle time
- Reduce the risk of chasing weight

## Power Clamp™

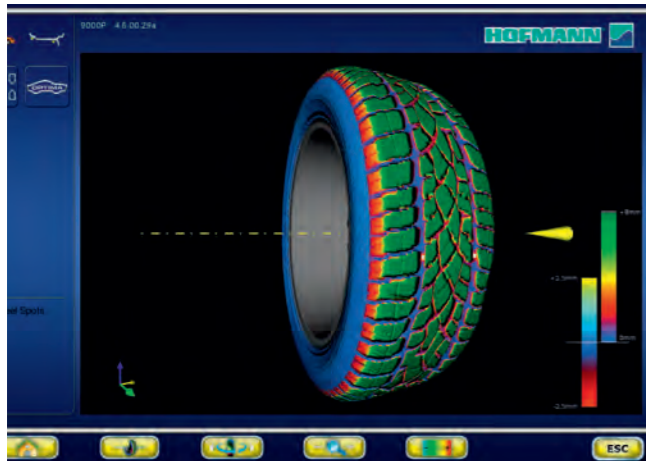
Clamps the wheel accurately with a constant force

## PLATINUM USER INTERFACE



All balancing information in a single screen; including the static unbalance, important for a quick diagnosis of the wheel. Status window showing all information and giving direct access to the linked additional features:

- Ease of use
- Minimize operator errors
- Shorten the cycle time



Graphical screens show the diagnostic outputs with multiple colors. Trouble spots are easily identified:

- Fast and intuitive
- Powerful tool for problem solving

(only for geodyna®9000p)



optima screen (\*) reports a complete wheel diagnosis. Warning messages help technicians find and fix potential issues:

- Accurate analysis of the wheel
- Gives the operator the tools to fix wheel issues

(only for geodyna® 9000p, 8250-2p, 8200-2p)

HOFMANN		RIDE PERFORMANCE REPORT		DATE:
REPORT PRINTED	<input type="checkbox"/> BEFORE <input type="checkbox"/> AFTER	GEOMETRIC MATCHING		03/08/2015
CUSTOMER NAME:	MACHINE NAME:		9000P_EU	
	VEHICLE MODEL:			
	VIN:			
RIM DIMENSION:	6.50" x 16.00"		VEHICLE PLATE:	
TYRE:			LOCATION OF WHEEL ON THE CAR:	
WHEEL:			FRONT LEFT <input type="checkbox"/> FRONT RIGHT <input type="checkbox"/>	
			REAR LEFT <input type="checkbox"/> REAR RIGHT <input type="checkbox"/>	
Total wheel assembly runout value:	0.20 mm	Equivalent static imbalance:	13 g	
Wheel radial runout threshold:	0.70 mm	Recommended Optima procedure:	None	
		Equivalent force vectoring 1H:	58.83 N	
		Equivalent force vectoring P-P:	94.60 N	
Dynamic imbalance values:	left 5 g right 10 g			
Static imbalance:			BEFORE	
Dynamic imbalance values:			AFTER	
Static imbalance:				
Graph of the total assembly radial run-out:				
		raw data	P-P: 0.3 mm	
		1st harmonic	0.2 mm	

Complete printouts (\*) are useful selling tools with customers. Printing uses a network printer located in a secure environment. The print manager software allows the customization of the reports:

- Improve business

(\*) Printout data depend by the balancer model. Network kit is optional.

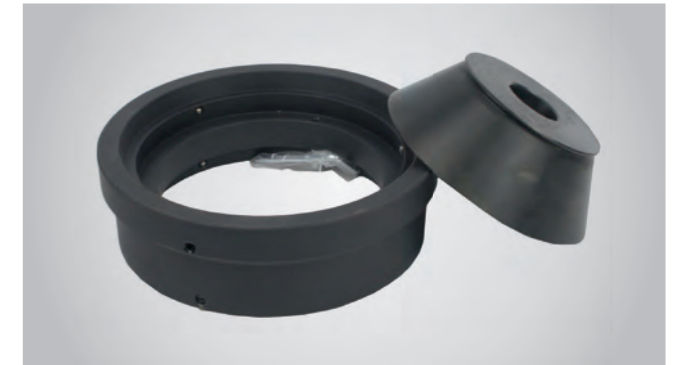
## STANDARD ACCESSORIES



- Weight Plier
- Adhesive Weight Removal Tool
- Calibration Weight and Spacer 2"
- Protectors for Storage Peg (4x)
- Storage Peg (4x)
- Pressure Ring
- Pressure Cup
- Power Clamp Sleeve
- Large Cone (Ø 96-116 mm)
- Medium Cone (Ø 72-99 mm)
- Small Cone (Ø 42-82 mm)
- Rubber Protection Ring
- Hand Protector for the Sleeve

## OPTIONAL ACCESSORIES

(wide range of OEMs' accessories available)



### Light truck kit

Spacer and cone 122-172 mm, for all Y2k balancers with 40 mm shaft



### FP Quick Set

Set of FP Quick 4, 5 and 6 flanges for 4-, 5- and 6-stud rims, pitch circle adjustable from 95 - 182 mm





geodyna®	9000p	8250-2p	8200-2p	7850-2p	7800-2p
<b>Display</b>	19"	19"	19"	19"	19"
<b>3D image technology</b>	●				
<b>Wheel profiling</b>		●	●	●	●
<b>Shape vibration fixing</b>	●	●	●		
<b>Full Wheel Diagnosis</b>	●				
<b>Wheel lift</b>		●		●	
<b>Max wheel diameter</b>	37" (950 mm)	42" (1050 mm)	42" (1050 mm)	42" (1050 mm)	42" (1050 mm)
<b>Start / Stop balance time</b>	8 s	4,5 s	4,5 s	4,5 s	4,5 s
<b>Measuring</b>	Balancing accuracy 1 g – Angular resolution $\pm 0,35^\circ$ Speed < 200 rpm				
<b>Shaft</b>	Diameter 40 mm – Length 225 mm				
<b>Dimensions L x W x H</b>	1450 x 990 x 1719	1940 x 1020 x 1570	1380 x 1020 x 1570	1940 x 1020 x 1570	1380 x 1020 x 1570
<b>Weight</b>	155 kg	195 kg	135 kg	195 kg	135 kg

#### EMEA-JA

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Part of the machines is illustrated with optional extras which are available at extra cost.  
Technical and visual modifications reserved.

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