

VIDEOTRONIC USER'S MANUAL



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WARNING

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.Prior of the installation of the unit described in this manual, user should read this manual carefully to be instructed properly on installation, use and maintenance of the unit.

.Failing to read this manual and operate accordingly may cause damage to the user or the unit.

.FASEP 2000 srl shall not be responsible for inconvenience, breakdown, accidents due to uncomplete knowledge of this manual or uncomplete application of raccomandations described in this manual.

.FASP 2000 srl shall not be responsible for inconvenience, breakdown, accidents due to unauthorized modifications of the unit, use of non-original or unauthorized accessories (see Accessories listing in this manual for a list of original accessories available for this model).

.FASEP 2000 srl shall not be responsible for any inconvenience, breakdown, accidents caused directly or indirectly by not qualified service. Service to any parts by not qualified persons will void warranty and will void any right of the owner of the unit.

SYMBOLS AND CONVENTIONS

To speed the retrieval of main information and make easy to understand the instructions, this manual uses the following typing conventions:





<NAME OF THE PUSH BUTTON>	Used to indicate name of push-buttons on the control panel.
DISPLAY	Used to indicate text or number visible on the displays on the control panel.
 ADVICES	Contain useful advices or solutions, evidenced with respect to the rest of the text.
 NOTE	Notes contain important information, evidenced to the rest of the text.
 WARNING	Warning messages appears corresponding to procedures that, if not properly observed, may lead to loose of data or cause damage to the unit.
 CAUTION	Caution messages appears corresponding to procedures that, if not properly observed, may cause injuries to the user.

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1 PRESENTATION

1.0 Intended Use

This unit is designed to measure and correct static and dynamic unbalance of vehicle wheel, the dimension and weight of which are within the working range of the machine (see "Technical Data" appendix for reference)

This unit is meant for a professional use. Operator shall be properly trained before use. Training Course is not included in the price of the unit and must be purchased separately.

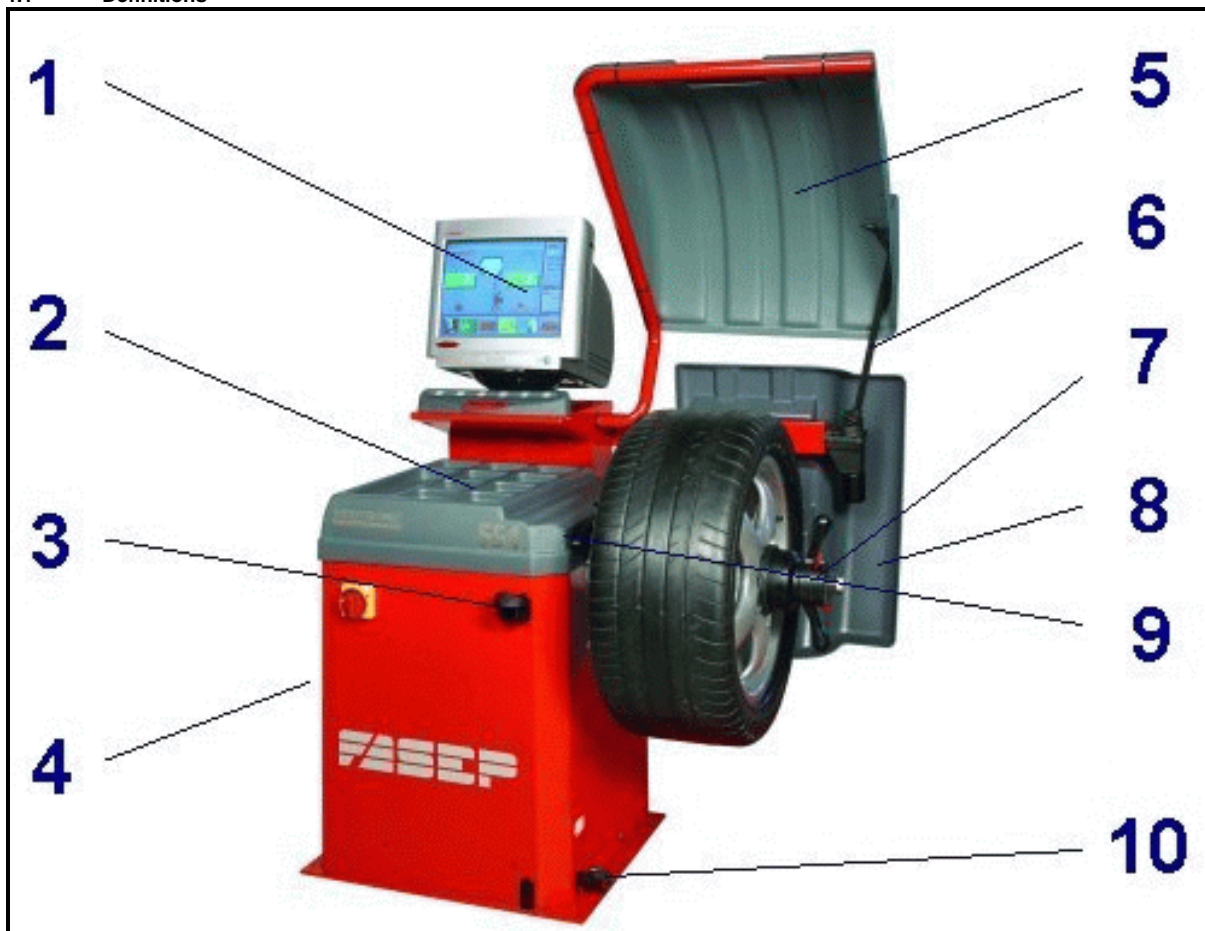
This unit is designed for indoor use only (see "Environmental Data" appendix for reference).



CAUTION:

This unit is designed to spin vehicle wheels only, within the range of dimensions and weight approved (see "Technical Data" appendix for reference). Special adaptors suit this purpose. Do not attempt to use the machine to spin anything else. Unproper locking may cause the part being spinned to be ejected, causing damage to the unit itself, the operator or anything in the in the neighborhood.

1.1 Definitions



- 1. Monitor
- 2. weight and tolls trays
- 3. Anvil
- 4. Side flange-holders
- 5. Wheel guard

- 6. External Measuring system (opz on V55x)
- 7. Quick lock + HD shaft
- 8. Lower wheel guard (opz on V55x)
- 9. ALU-SE (opz on V55x)
- 10. Foot pedal

2 INSTALLATION

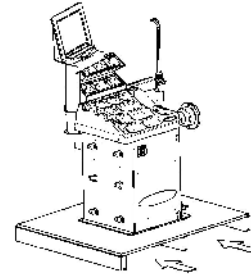
2.1 Moving the unit



WARNING *When the unit has to be moved: never lift balancer by motor shaft or by neighborhood of it.*

2.2 Assembling the unit

For ease of transportation, the wheel balancer might be disassembled into units. If necessary, assembling instruction are provided within each package.

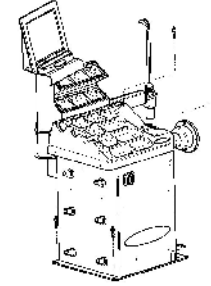


2.3 Installation

The wheel balancer must be installed on a firm and level ground.



NOTE: *the machine must be secured to the floor. Using four holes in the base and anchor bolts provided.*



2.4 Electrical Hookup



CAUTION: *Failure to follow these instructions can results in damage to unit or create an electrical hazard and will void warranty.*

2.4.1 Electrical hookup is to be provided by a qualified electrician.

2.4.2 A fusible wall-mounted switchbox is required at the installation site. This switch should provide on-off control and overload protection for your wheel balancer only. The switchbox should be fused with time-delay fuse(s) in accordance with the power rating specified on your wheel balancer.

2.4.3 Electrical connection of the machine should be by plug connectors.

2.4.4 The balancer must be effectively connected to ground. The electric cord is regularly provided with a ground terminal.

2.4.5 Make sure that Power Rate Specifications for your wheel balancer (refer to nameplate on the wheel balancer) comply with those provided by the external power source.



CAUTION *After electrical hookup has been performed unit is ready to operate. Always observe pertinent safety precautions when operating the unit (see Appendix tables for an overview of relevant Safety requirement).*

2.5 Compressed air Hookup (PL models only)



CAUTION *Failure to follow these instructions can result in damage to unit or create a hazard and will void warranty.*

1. *Compressed Air hookup is to be provided by a qualified technician, under the local safety requirements, in line with relevant national standards and regulations. All fitting and hoses must conform to local codes.*
2. *A wall-mounted lubricator and water-separator is required at the installation site.*
3. *Compressed Air circuit to the balancer shall be regulated to a maximum pressure of 7 atm. Overpressure could compromise cylinder operation.*

2.5.1 CONNECT TO AIR SUPPLY:

The machine is fitted with a universal connector and therefore no other special or additional fitting is required. Push all the way onto the connector a high pressure rubber air-hose and secure it.

3 CALIBRATION OF WHEEL BALANCER

3.1 How to calibrate the wheel balancer



NOTE: *the following symptoms indicate need for calibration:*

a) check calibration program fails.

c) indicated point of imbalance constantly wrong

b) constant low or high weight readings.

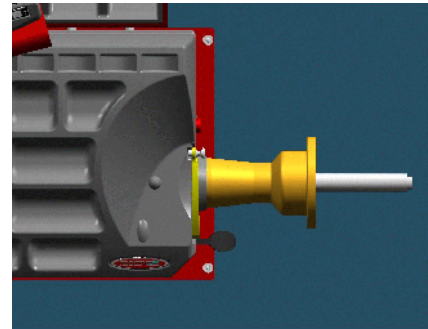
d) more than 2 spins required to balance wheels repeatedly.



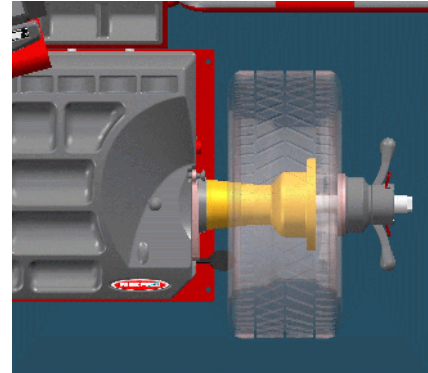
Switch on the wheel balancer.

MAIN MENÚ > UTILITY > CALIBRATION

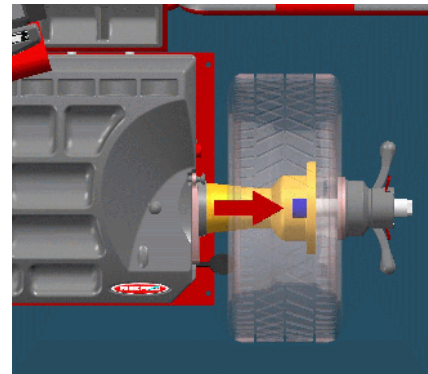
Close the wheel guard or press **<START>**.



At the end of the spin, put a wheel (see the fig.) and close the wheel guard or press **<START>**.



At the end of the spin, put the calibration weight (see the fig.) and close the wheel guard or press **<START>**.

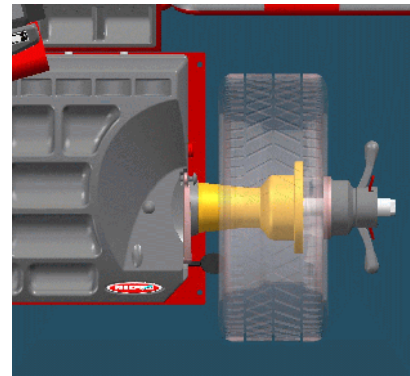


3.2 How to control the calibration of wheel balancer and position weight



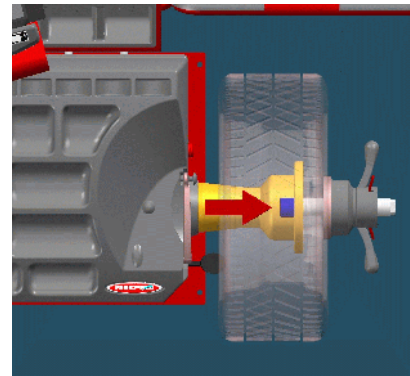
Switch on the wheel balancer.
MAIN MENÚ > UTILITY > CONTROL

Put a wheel on the shaft and close the wheel guard or press **<START>**.



At the end of the spin, put the calibration weight and close the wheel guard or press **<OK>**.

At the end of the spin, **160-0** will show on the video (tolerance allowed is ± 10).

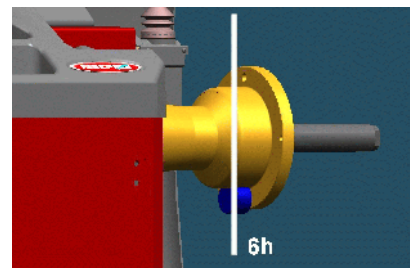


Put the weight at 6h o'clock: the weight indicators of internal side must be both green.

If not, press **<CALIBRATION>**.

Put the weight at 6h o'clock and press **<OK>**.

Close the wheel guard or press **<START>**.



4 MEASUREMENT AND CORRECTION OF UMBALANCE

4.1 Placing the wheel rim on the wheel balancer

4.1.1 Select the cone or flange suitable for the wheel to be balanced. Specific mounting instructions are delivered with each flange.

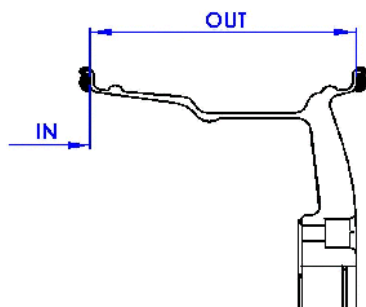


NOTE: *the operation of centering and tightening of the wheel on the flanges is of basic importance for correct balancing. Good results depend on proper performance of these procedures. To accurately clean up the superficial ones of connection before whichever operation.*



CAUTION: *Always make sure flanges are correctly locked on the motor shaft and wheel is correctly locked on the flange being used.*

4.2 Input of Rim Dimensions (standard version) for V55x (automatic input of distance and diameter)



MAIN MENÚ > INPUT

Insert the distance (fig.15).

Insert the width (fig.16).
Turn the wheel to insert the value.
Press <OK>.

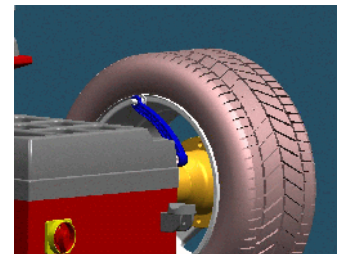


Fig. 15: Distance

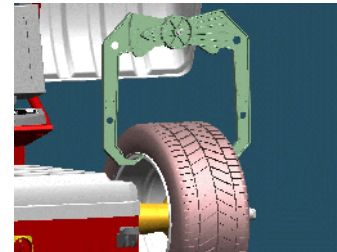
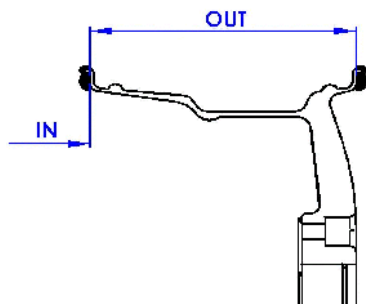


Fig. 16: Width

4.3 Input of Rim Dimensions (external measuring system version) for V65x, V64x, V55x-D (automatic input of all data)



MAIN MENÚ > INPUT

Insert the distance (fig.18).

Insert the width (fig.19).

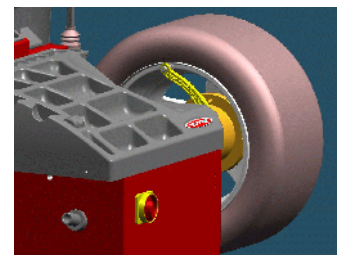


Fig. 18: Distance

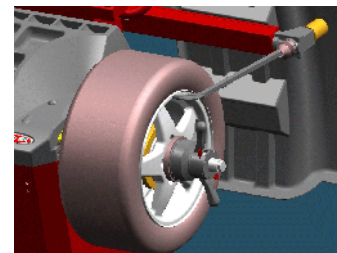
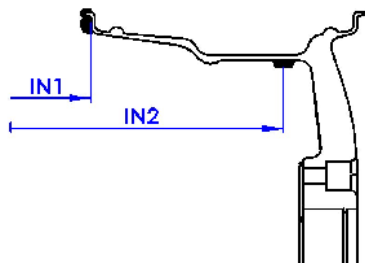


Fig. 19: Width

4.4 Input of Rim Dimensions (ALU-SE or LASER version)



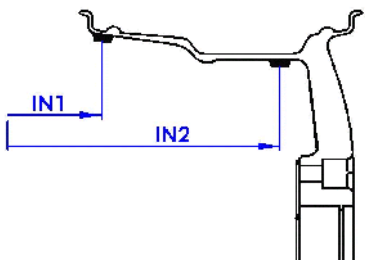
MAIN MENÚ > INPUT

Press ALU-S MODE until the required position of weight is on the video (fig.20).

Insert the distance (IN1).

Insert the distance (IN2).

Fig. 20



Press ALU-S MODE until the required position of weight is on the video (fig.21).

Insert the distance (IN1).

Insert the distance (IN2).

Fig. 21

4.5 Detecting and correcting unbalance

4.5.1 After setting wheel dimensions, press <START> or close the safety cover (optional) to spin the wheel and start the measurement run.



CAUTION: *wheel start automatically when safety cover is closed.*

4.5.2 At the end of the spin the wheel will brake automatically and the display will show the weight position and weight requirement to correct the wheel's unbalance.

4.5.3 If unbalance shown is 0, press <FINE> to show residual unbalance.

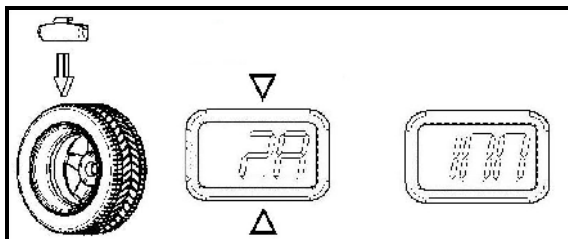


Fig. 22: Inside weight required

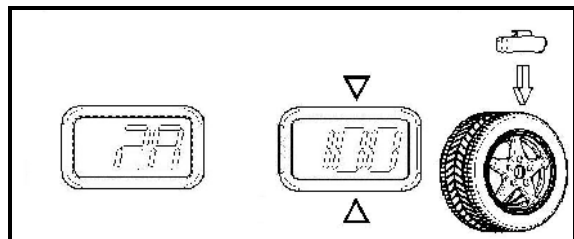


Fig. 23: :Outside weight required

4.6 How to apply the weight using ALU-SE applicator

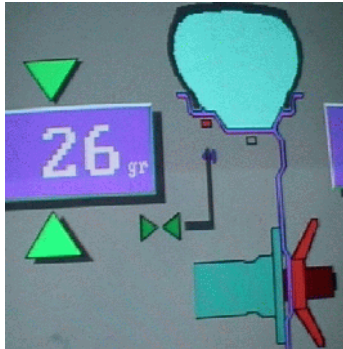


Fig. 24

Place the weight as in the picture 25.

Turn the wheel until the position weight indicators of one side are both green (see the fig. 24).

Move the rod until the the 2 indicators of the rod are green (see the fig. 24).

Apply the weight (see the fig. 26).
Repeat the procedure for the other side.

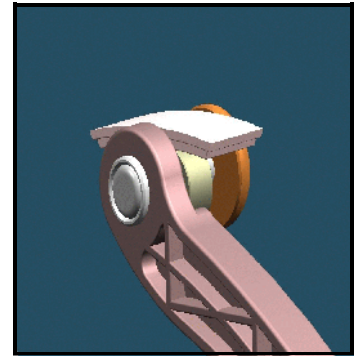


Fig. 25

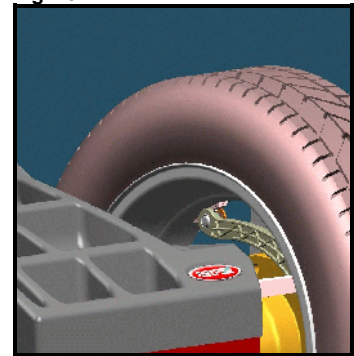


Fig. 26

4.7 How to apply the weight using LASER

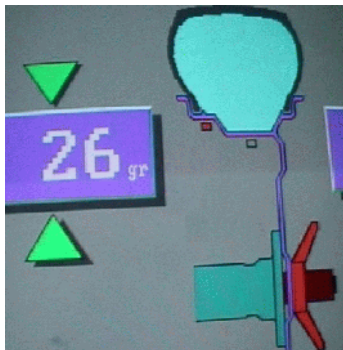


Fig. 27

Turn the wheel until the position weight indicators of one side are both green (see the fig. 27).

The laser come out to show the point of application of the weight (see the fig. 28).

Apply the weight on the laser dot.

Repeat the procedure for the other side.

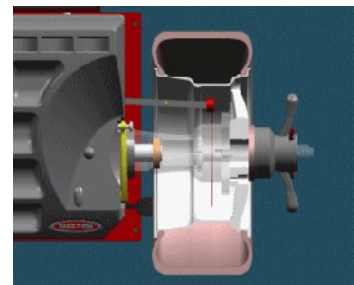


Fig. 28

5 HOW TO OPTIMIZE UNBALANCE OF THE WHEEL

5.1.1 MAIN MENU > INPUT

5.1.2 Measure the unbalance of the rim only (see the fig. 29).

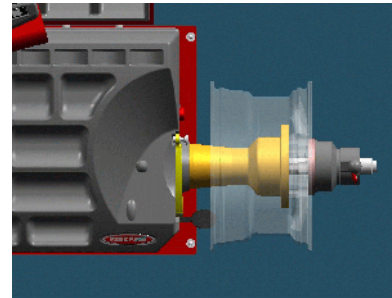


Fig. 29: first spin, rim only

5.1.3 Mount the tyre on the rim and put the wheel on the shaft (fig.30).

5.1.4 Press <OPT>

5.1.5 Select the optimization and follow the video instruction.

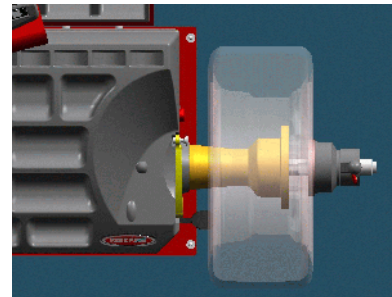


Fig. 30: second spin, complete wheel



WARNING: *Balancing with flanges, put the accessories assembled to the rim during the complete operations.*



NOTE: *Selection of optimization: the green solution is the advised from the machine. The user can be choose also one of the other.*

6 SPECIAL FUNCTIONS

6.1 Language selection

6.1.1 MAIN MENÚ > E²PROM SETUP > INTERNATIONAL > Select the language > RESET.

6.2 Setup

6.2.1 MAIN MENÚ > E²PROM SETUP > TECH.

6.2.2 Press CHANGE to change the selection.

6.2.3 Press SELECT to modify the option.

6.2.4 Press SAVE to memorize and back to MAIN MENÚ.

6.3 Personalization

6.3.1 MAIN MENÚ > PERSONAL.

6.3.2 Follow the instruction on video to insert the personalization.

6.3.3 Press SAVE to memorize.

6.4 Run-out check program

6.4.1 Insert the wheel dimensions.

6.4.2 MENÚ > RUNOUT.

6.4.3 Put the rod as shown in fig. 31 and turn slowly the wheel for 360°.

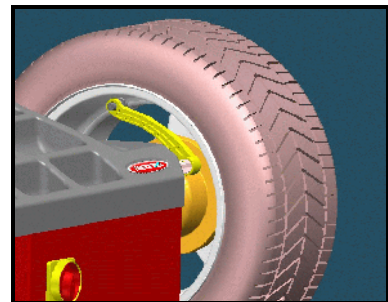


Fig. 31: Runout

6.5 Planarity check program

6.5.1 Insert the wheel dimensions.

6.5.2 MENÚ > PLANAR.

6.5.3 Put the rod as in the fig. 32 and turn the wheel for 360°.

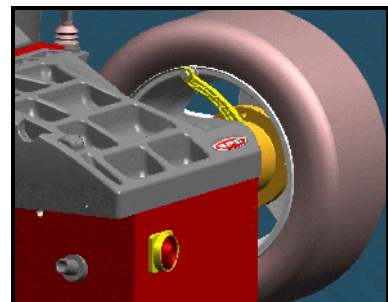


Fig. 32: Planarity

APPENDIX

A: Technical data

Power requirement	400W
Speed Balancing	98RPM
Measuring time	4-15 secondi
Accuracy	±1grammo (±1/28 once)
Wheel Dimensions	Diameter Rim diameter Rim Width (with wheel-guard) Wheel Weight
	8" (200mm) a 26" (650mm) max 16" (415mm) max 90 Kg (198Lbs)

Wheel balancer dimensions

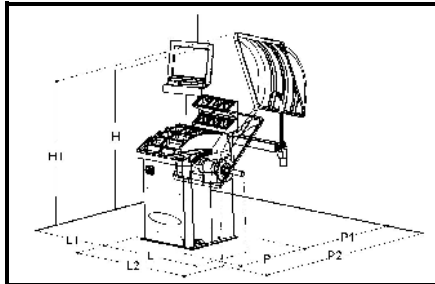


Fig. 33: Measures

	V64x	V55x
L (mm)	1150	1020
L1 (mm)	500	500
L2 (mm)	1240	1100
P (mm)	870	900
P1 (mm)	200	200
P2 (mm)	1300	1300
H (mm)	1520	1270
H1 (mm)	1680	1700
Peso (kg)	167	150

B: Environmental Data, Safety Features and Requirements

Environmental Data

[Operating conditions]

This unit is designed for indoor use only.

Temperature: 0 to 45°C

Relative Humidity: 5 to 80% a 40°

[Storage conditions]

Package is designed for indoor storage only.

Temperature: -25° to 70°C

Relative humidity: 5 at 95% to 40°C

Safety Features

1. The Balance Weights Holder may be removed for servicing. It is secured to the machine body through screws so that only voluntarily it may be removed. Removal of this protection is therefore restricted to Authorized Service Engineers.
2. The Control Panel may be removed for servicing. It is secured to the machine body through screws so that only voluntarily it may be removed. Removal of this protection is therefore restricted to Authorized Service Engineers.



CAUTION: *The safety cover is anyway required when using the motorcycle adapter.*



WARNING *FASEP 2000 srl shall not be responsible for any inconvenience, breakdown, accidents caused directly or indirectly by unauthorized service. Service to any parts by unauthorized engineers will void warranty and will any right of the owner of the unit.*



NOTE: *As this unit runs at speed below 100rpm, a safety cover is not required. However a safety cover is recommended when balancing wheels with diameter bigger than 20".*

General Safety Requirement

[before using/servicing this unit]

1. Read this instruction sheet and the whole user's manual before operating or servicing the wheel balancer.
2. Make sure electrical power source conforms to requirements shown on nameplate (see also model identification chart for reference).
3. Make sure the unit has a stable position.
[when using the unit]
4. Protect power leading to the unit from damage.
5. When work area is being washed, make sure unit is adequately protected.
6. Remove all stones and mud lodged in tire treads before balancing the wheel.
7. Do not touch spinning wheel. Always use Safety Safety cover to be protected.
8. Make sure counterweights are securely attached before checking residual unbalance.
[when servicing the unit]
9. Make sure power sources are disconnected before service on the unit is performed.
10. Service to PCB, electrical and mechanical parts should be done only by an Authorized FASEP 2000 Service Center.