

# GRIPPER

## user manual

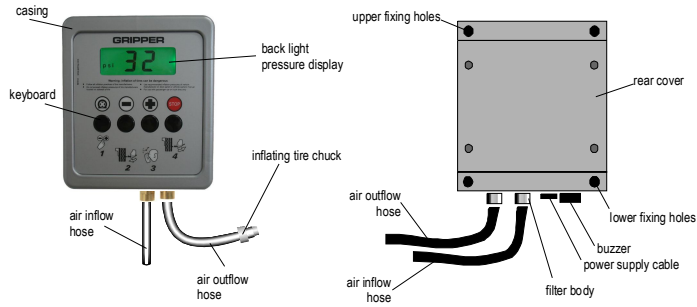
Standard Tire Inflating Device

Revision 1.0

MT 504

Equipment front view

Equipment rear view



### Warning!



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### installation

Your equipment is intend to indoor or outdoor use. Please follow the installation intructions to achieve the best results in performance and safe operation.

## 1. POWER SUPPLY

### Warning!

- 1) Make sure the electric network voltage is 90-240 VAC, 50/60 Hz.
- 2) The power supply cable must be connected to an efficient protective conductor.
- 3) The equipment must be connected to a 10 A circuit breaker in its close proximity and within easy reach of the operator. The circuit breaker shall be marked as the disconnecting device for the equipment.
- 4) Do not connect other equipments such as refrigerator, compressors and vacuum cleaners to the same electric circuit.

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## 2. WALL INSTALLATION

Mount the hose holder, screwing it behind the casing side skirt. Use the 4 screws which has been assembled in the casing side skirt.

Drill the wall according to the holes in the rear cover of the equipment. Attach the equipment on the wall using four suitable screws and plugs.



### software programming

01. Connect the equipment to electricity. The number 1888 will be shown in the display for 4 seconds. During this time, press and hold the MINUS button and the STOP button together.
02. Release the MINUS and the STOP buttons. The word SEL (selection) will be shown in the display.
03. Press the same buttons together again and after this release them. The word U1 (default pressure unit) will be shown in the display.
04. Using the MINUS button it is possible to select the default pressure unit: bar, kPa or psi.
05. Press the STOP button. The word HP (default pressure range) will be shown in the display.
06. Using the MINUS button it is possible to select the default pressure range: HP = high pressure = 145 psi (10.0 bar, 1000 kPa) or LP = low pressure = 58 psi (4.0 bar, 400 kPa).
07. Press the STOP button. The value 32 psi (2.2 bar, 220 kPa) (default desired pressure) will be shown in the display.
08. Using the MINUS button it is possible to select the default desired pressure between 3 psi (0.2 bar, 20 kPa) and the value selected in the item 6.
09. Press the STOP button. The word L1 (default safety timer) will be shown in the display.
10. Using the MINUS button it is possible to select the default safety timer: L1 (one minute TIMER ON), L3 (three minutes TIMER ON) or L0 (TIMER OFF). The TIMER ON function resets the desired pressure to the default value selected in item 8, if the equipment is not used during the safety time.
11. Press the STOP button. The word E1 (default safety function) will be shown in the display.
12. Using the MINUS button it is possible to select the default safety function: E1 (safety function enabled) or E0 (safety function disabled).
13. Press the STOP button.
14. Press the FLAT TIRE button. The programming procedure is finished. The equipment will be in its normal functioning mode. It is not necessary to turn off the equipment. The selections made (pressure unit, pressure range, desired pressure, safety timer, and safety function) are saved in the flash memory of the equipment.

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### Warning!

- 1) Make sure the equipment inflow pressure is not higher than 232 psi (16.0 bar, 1600 kPa). Otherwise use a regulating pressure valve or contact your local supplier requiring one.
- 2) It is recommended that a ball valve be installed at air output, close to the equipment. Before connecting the air intake hose, open it for a minute to remove possible particles inside the pneumatic line.
- 3) It is recommended that a 30 mA RCD be fitted at the power source.

### how to operate

- 1) Make adjustments through the and keys to obtain the desired pressure. Connect the inflating chuck to tire and release it only when the beep is heard or when the back light display is flashing.
- 2) In case the desired pressure is the same for all tires, a new setup is not necessary.
- 3) When in operation, the GRIPPER displays the tire pressure before inflation, and the partial pressures until the desired one is reached.
- 4) For flat tires, proceed in the following manner: set desired pressure through the and keys, connect inflating chuck to tire and press until the minimum inflation pressure is reached, i.e., 3 psi (0.2bar, 20 kPa). From this point on, the equipment will continue to inflate regularly.
- 5) Press **STOP** key to cancels the inflation / deflation operation. Remove chuck from tire to reset.
- 6) If after a inflation / deflation operation the chuck is re-connected to the same tire, it is normal that a pressure decrease is visualized on the display, and that is due to the fact that the hose is empty and will, consequently, take some air from the tire. Anyhow, the GRIPPER will re-inflate the tire with the desired pressure.
- 7) If the chuck is connected to tire and the difference between the desired pressure and the tire pressure is greater than 15 psi (1.0 bar, 100 kPa), then GRIPPER doesn't start operation. It turns on the sound alarm, displays these pressure values alternately, and waits for the user to press to start operation.
- 8) If the **STOP** key is pressed for more than 4 seconds, then GRIPPER displays the counter of completed tire inflation / deflation operations.

### care during operation

- 1) Make sure to correctly connect chuck to tire. Do not allow air leakage between hose and tire for efficient inflation. If leakage occurs inflation precision fails.
- 2) Do not interrupt inflation procedure. In case the chuck is accidentally disconnected from tire, wait until the air flow stops and reconnect it again.
- 3) Do not place hose and chuck on the floor. After use place them at hose rest. Avoid hitting the chuck to floor.
- 4) In case the chuck is connected to tire and the inflation process is not activated, please check the tire gauge pin and replace it, if necessary.
- 5) In case of any air leak at hose or chuck, replace them.

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## maintenance

**Warning!**  
Before any maintenance service turn off the circuit breaker of the equipment and close down the valve

### 1) Hose replacement:

Use a 15 mm (9/16") wrench to release hose connection from the equipment. Block Filter Body with a 16 mm (5/8") wrench. Replace hose for a new one. Assembly hose in its right position according to the marks on the appliance. The marks and their meaning are as follow:

 This symbol means INLET AIR CONNECTION. Connect the inlet air valve to it.

 This symbol means TIRE CONNECTION. Connect the tire hose to it.

Screw connection by hands until the end. Get it tight using a 15 mm (9/16") wrench. It's not necessary applying any kind of adhesive or sealing.

### 2) Inflation chuck replacement:


**Warning!** Use only an inflation chuck indicated by your local supplier. Low quality chucks may cause air leak and inaccurate inflation. The chuck used in the equipment is "NO AIR RESTRAIN" type. Never use an "air restrain" type of chuck because this will result in inflation malfunction.

Cut the hose near the old chuck to remove it. Replace the new one, placing a screw grip clamp (9 to 13 mm external diameter) to fix the chuck.

3) Fuse replacement: the fuse is placed inside the equipment. Only authorized technicians can replace it. In case of replacement, use a 3,15 A fuse (time-lag), 5 X 20 mm type. Use only a fuse certified or approved by any recognized national test house.

Equipment does not start inflation, even after chuck is connected to tire.

- 1 Equipment chuck is not correctly connected to tire.
- 2 Chuck is broken.
- 3 Tire gauge pin is too tight.
- 4 Flat tire.

- 1 Connect chuck tighter to avoid air leakage.
- 2 Replace chuck for alike (no-restrain type).
- 3 Quickly release gauge pin with appropriate tool or replace pin.
- 4 Press  key.

Equipment starts operation by itself or alarm is activated without hose being connected to tyre.

Chuck clogged or with restrain.

Check clogging or replace chuck for a "no restrain" type.

Equipment displays "E00" or "E06" flashing.

Power failure or poor contact at power connector.

Check power connector, switch off and switch on the equipment.

Equipment displays "E02" flashing.

- 1 Compressor pressure is under the pressure selected in the equipment.
- 2 Air output valve is closed.
- 3 Internal fault.

- 1 Switch compressor on or change air compressor (if not suitable for the application).
- 2 Open air output valve.
- 3 Contact your local supplier.

Equipment displays "E03" flashing.

Internal fault


Contact your local supplier


Equipment displays "E05" flashing.

Power failure  
Power connector switched on after connecting chuck to tire

Release tyre chuck and restart inflation at the beginning after few seconds.

Equipment displays "E08" flashing.

Key  was pushed for more than 4 seconds.

Check in the keyboard if key  is tied.

**Should any doubt arise, please contact your local supplier.**

## technical specifications

Power supply: 90-240 VAC (±10%), 50/60 Hz  
Consumption: 16 W  
Operating temperature: -20 to +70 degrees Celsius  
Weight: 3 kg  
Maximum inflation pressure:  
High pressure models: 145 psi (10.0 bar, 1000 kPa)  
Low pressure models: 58 psi (4.0 bar, 400 kPa)  
Maximum air line pressure: 232 psi (16.0 bar, 1600 kPa)

## warranty certificate

EQUIPMENT DATA	
serial number	
date	
model	

The GRIPPER has an warranty of 24 months, starting at date of issue of purchase receipt. In case it is missing, the equipment date of manufacture is taken into account.

### Items covered by the present warranty

Occasional material or manufacture defects resulting from regular and adequate handling, after analysis of your local representative.

### Warranty is not valid for

- 1) Misuse or accidents of any nature, such as electrical discharges caused by lightning during storms or other equipment.
- 2) Variation or anomalies off limits concerning voltage and rated frequency on power supply.
- 3) Defects resulting from installation different from specified by the manufacturer.
- 4) Hose and inflating chuck.
- 5) Fuse

## warranty expiration

- 1) When validity is expired.
- 2) In case alterations have been performed and also the use of inappropriate accessories.
- 3) When servicing is provided by non-authorized personnel.
- 4) When instructions provided by this manual are not followed.
- 5) When seal is violated.

### Notes

- 1) The defective equipment must be sent to your local supplier for servicing. Costs incurred during shipping and handling are on customer's account. In case the client requires the visit of a technician, a visit fee will be charged, even if within the warranty period.
- 2) The parts replaced without expenses for the client, due to warranty, must be taken to the manufacturer.
- 3) Due to the constant technological evolution performed by the manufacturer, product specifications may be altered.

### your local supplier



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## troubleshooting

problem	probable cause	solution
Equipment does not operate.	No power available.	Check circuit breakers and electric installation (wiring, power connector and cord).
Air is expelled from equipment (even when not powered).	In/out hoses are misplaced.	Check for correct installation of hoses.
Equipment is over-inflating.	Hose leakage.	If necessary replace them.